Larson & Associates, Inc.
Environmental Consultants

March 4, 2016

VIA EMAIL: jim.griswold@state.nm.us

Mr. Jim Griswold, Bureau Chief
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: 2015 Annual Groundwater Monitoring Report – Targa Midstream Services, LLC, Eunice Gas Plant, Lea County, New Mexico

Dear Mr. Griswold:
The above referenced report is submitted electronically to the New Mexico Oil Conservation Division (OCD) on behalf of Targa Midstream Services, LLC (Targa). The reports present the results of groundwater monitoring performed at the Eunice Gas Plant during 2015. Please contact Cal Wrangham with Targa at (432) 688-0542 or Mark Larson at (432) 687-0901, if you have questions.

Sincerely,

Larson & Associates, Inc.

Kimberly Huckaba
Staff Geologist
khuckaba@laenvironmental.com

Attachment 2015 Annual Groundwater Monitoring Report – Eunice Gas Plant, February 15, 2016

cc: Cal Wrangham, Targa Midstream Services, LLC
David McQuade, Targa Midstream Services, LLC
Kellie Jones, OCD District 1

2015
GROUNDWATER MONITORING AND INVESTIGATION REPORT

Eunice Gas Plant

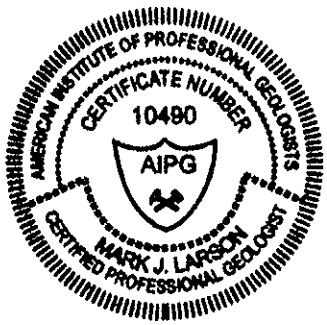
Lea County, New Mexico

LAI Project No. 2-0103

February 15, 2016

Prepared for:
Targa Midstream Services, LLC.
6 Desta Drive, Suite 3300
Midland, Texas 79705

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld, Suite 205
Midland, Texas 79701



Kimberly M. Huckaba
Staff Geologist

Mark J. Larson, CPG #10490
President/Geologist

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1.0 EXECUTIVE SUMMARY

This report presents 2015 groundwater monitoring results and investigations performed at the Eunice Gas Plant (Facility) which is owned by Versado Gas Processors, L.P. and operated by Targa Midstream, LLC. The Facility is located in Unit B (NW/4, NE/4), Section 3, Township 22 South, Range 37 East, in Lea County, New Mexico. The geodetic position is north 32° 25' 29.3" and west 103° 08' 50.1".

The following was performed during 2015:

- February 2015 – Initiate LNAPL investigation;
- April 16, 2015 – Monitoring well MW-30 was installed down gradient (southeast) of the Facility for chloride delineation and dry well MW-17 was plugged;
- May 11 and June 2, 2015 - First semi-annual groundwater gauging and sampling event;
- November 9 – 11, 2015 - Second semi-annual groundwater gauging and sampling event ; and
- December 2015 – Expanded LNAPL investigation.

The following activities are documented in the report:

- Groundwater flow direction remains consistent from northwest to southeast at a gradient of approximately 0.008 feet per foot;
- Groundwater mounding, possibly due to LNAPL, near the center of the Facility was observed during both semi-annual events;
- LNAPL (condensate) was observed in 16 wells during the 2015 monitoring events;
- Benzene exceeded the WQCC human health standard (0.01 mg/L) in groundwater samples from eight (8) wells (MW-06, MW-11, MW-14, MW-18 MW-19, MW-23, MW-28, HV-6) during the first monitoring event (June 2015) and seven (7) wells (MW-06, MW-11, MW-14, MW-18 MW-19, MW-25, MW-28) during the second monitoring event (November 2015);
- Barium exceeded the WQCC human health standard (1.0 mg/L) in groundwater samples from five (5) monitoring wells (MW-06, MW-11, MW-25, MW-26, MW-28) during June and three (3) wells (MW-06, MW-11, MW-28) during November, results are consistent with previous monitoring events;
- Arsenic exceeded the WQCC human health standard (0.1 mg/L) in groundwater samples from MW-28 during June and November 2015 monitoring events;
- Chloride, Sulfate and TDS remained elevated above the WQCC domestic water quality standard of 250, 600 and 1,000 mg/L, respectively, during the June and November 2015 events;
- The highest chloride (24,500 mg/L) and TDS (42,200 mg/L) concentrations were reported in samples from monitoring well MW-14 during the November 2015 monitoring event;
- A down gradient monitoring well (MW-30) installed about 1,400 feet southeast of the Facility revealed an aquifer thickness of less than 2 feet and decreased concentrations of chloride and TDS;
- The source for LNAPL was not identified.

The following activities are proposed for 2016:

- **Continue semi-annual (twice yearly) groundwater monitoring;**
- **Install a monitoring well (MW-31) southeast of MW-30 to delineate the chloride plume or aquifer;**
- **Continue investigating source(s) for LNAPL near the southeast corner and east of the Facility in the vicinity of MW-2A;**
- **Resume LNAPL recovery following identification and correction of the source(s); and**
- **Prepare and submit 2016 annual report in the first half of 2017.**

2.0 INTRODUCTION

This report has been prepared on behalf of Targa Midstream Services, LLC (Targa) to present results of 2015 groundwater monitoring and investigations at the Eunice Gas Plant (Facility). The Facility is located in Unit B (NW/4, NE/4), Section 3, Township 22 South, Range 37 East, in Lea County, New Mexico. The Facility is owned by Versado Gas Processors, L.P. (Versado) and operated by Targa. The geodetic position is north 32° 25' 29.3" and west 103° 08' 50.1". Figure 1 presents a topographic map. Figure 2 presents an aerial map. Figure 3 presents a Facility drawing.

2.1 Background

The Facility previously operated under a discharge permit (GW-005) that was administered by the New Mexico Oil Conservation Division (OCD). However, the OCD no longer requires the discharge permit.

A complaint of alleged contamination from chromium was reported to the OCD in 2002. The OCD required Targa to initiate a groundwater investigation. Twenty-one (21) monitoring wells (MW-01 through MW-21) were installed to investigate groundwater contamination.

Two (2) monitoring wells (UN-MW-01 and UN-MW-02) that were previously unknown to Targa personnel were determined to be owned by Chevron USA in connection with an investigation of a drilling pit at the Mark #13 well (API 30-025-37385) and AP-081. Well UN-MW-01 reported LNAPL in the form of crude oil with an apparent thickness of about 0.23 feet (November 9, 2015).

Groundwater samples are collected from the monitoring wells, excluding wells with light non-aqueous phase liquid (LNAPL), on a semi-annual (twice yearly) schedule. The samples are analyzed by a National Environmental Laboratory Accreditation Program (NELP) accredited laboratory for benzene, toluene, ethylbenzene, xylenes (BTEX), dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), cations (calcium, magnesium, potassium and sodium), anions (alkalinity, chloride and sulfate) and total dissolved solids (TDS).

During the second semi-annual monitoring event in October 2009, LNAPL in the form of natural gas condensate was observed in well MW-3 near the southeast corner of the Facility. LAI personnel initiated recovery from well MW-03 in November 2009, using pneumatic pumping methods. An investigation to identify the source and extent of the LNAPL was initiated in March 2010 and involved installing eight (8) monitoring wells (MW-22 through MW-29), a recovery well (RW-1), and 4 observation wells (VW-1 through VW-4). The investigation uncovered a corroded fitting on a 2 inch diameter scrubber dump line as a possible source for the LNAPL. Additional LNAPL was initiated in wells MW-22, MW-27 and RW-1 using pneumatic pumps.

During 2012 Targa retained a third party contractor to remove the LNAPL using high vacuum extraction methods. The contractor installed nine (9) two inch vacuum extraction wells (HV-1 through HV-9) and a

10 inch vacuum extraction well (HVR-1). In April 2015 LAI personnel gauged the wells and discovered the LNAPL had returned.

2.2 Setting

2.2.1 Topography

The elevation is approximately 3,400 feet above mean sea level (AMSL) as shown on the Eunice, New Mexico (1969) USGS 7.5-Minute Quadrangle map. The topography slopes to the south and southeast with surface runoff routed to a low area near the southeast corner of the Facility. There are no streams, springs, or ponds located on the Facility and the nearest surface water is the ephemeral "South" Monument Draw, which is located about 1.5 miles east of the Facility. There is no apparent surface connection for runoff between the Facility and Monument Draw. Figure 1 presents the topographic map.

2.2.2 Geology

The surface geology is comprised of Holocene to mid-Pleistocene age eolian and piedmont-slope deposits that were derived mostly from reworking the underlying Tertiary-aged Blackwater Draw and underlying Ogallala formations. The Blackwater Draw and Ogallala formations are comprised of fluvial sand, silt, clay and localized gravel, with indistinct to massive crossbeds. The Ogallala sand is generally fine- to medium-grained quartz.

Boring logs indicate a general lithology of unconsolidated eolian sand over an eight (8) to 20 foot thick unit of carbonate-indurated sand commonly referred to as "caliche". Beneath the caliche unit is a thickness of fine-grained pink quartz sand. Locally this sand is lithified into sandstone with clayey sand or red-bed clay observed in the bottom of some monitor wells. The sandstone layer most likely represents an *in situ* deposition layer at the interaction zone during former higher-standing water table conditions. The Ogallala formation overlies the Triassic-age Chinle formation of the Dockum group which is comprised of interbedded sand, clay and mudstone.

2.2.3 Groundwater

Groundwater occurs in the Ogallala formation with the regional flow direction toward the southeast at a gradient of about 0.008 feet per foot. Variations in groundwater flow direction may occur from pumping stresses. Localized mounding occurs near the center and southeast corner of the Facility and is believed to be from leakage of water from underground pipes and LNAPL.

Records from the New Mexico State Engineer identified a fresh water well about 0.7 miles south (cross gradient) of the Facility. The well is located in Unit O (SW/4, SE/4), Section 3, Township 22 South, Range 37 East. The well had a reported water level of 32.58 feet below ground surface (bgs), on January 27, 1976.

3.0 GROUNDWATER MONITORING

3.1 Depth to Groundwater and Potentiometric Surface Elevation

Monitoring wells were gauged for depth to groundwater during first and second monitoring events on May 11, 2015 and November 9, 2015, respectively. Table 1 presents a summary of the depth to groundwater measurements. Figure 3 presents the monitoring well locations.

May 2015 Gauging Event

On May 11, 2015, depth to groundwater ranged from 23.32 (MW-04) to 61.31 (MW-08) feet bgs. The groundwater potentiometric elevation ranged from 3,369.82 feet above mean sea level (AMSL) at MW-09 (up gradient) to 3,330.99 feet AMSL at MW-30 (down gradient). The groundwater flow direction was from northwest to southeast at a gradient of approximately 0.008 feet per foot. The groundwater potentiometric surface was elevated or mounded in the LNAPL area near the southeast corner of the Facility. The groundwater flow direction and gradient was consistent with the previous monitoring events. Figure 4a present the groundwater potentiometric map for May 11, 2015.

November 2015 Gauging Event

On November 9, 2015, depth to groundwater ranged from 20.12 (MW-04) to 61.05 (MW-08) feet bgs. The groundwater potentiometric elevation ranged from 3,369.98 feet AMSL at MW-09 (up gradient) to 3,331.20 feet AMSL at MW-30 (down gradient). The groundwater flow direction was from northwest to southeast at a gradient of about 0.009 feet per foot, which is consistent with the previous monitoring events. The groundwater potentiometric surface was elevated or mounded in the LNAPL area near the southeast corner of the Facility and may be attributed to the presence of LNAPL on the groundwater. Figure 4b presents the groundwater potentiometric map for November 9, 2015.

3.2 LNAPL Measurements

LNAPL was observed in 16 wells (MW-2A, MW-3, MW-22, MW-27, MW-29, RW-1, VW-1, VW-2, VW-3, VW-4, HVR-1, HV-1, HV-2, HV-4, HV-5 and HV-7) with apparent thickness about 0.15 feet (VW-1) to 5.81 feet (MW-3). In April 2015 LAI personnel began monitoring LNAPL thickness in the wells on an approximate bi-weekly (twice monthly) schedule while investigations were performed to determine the source for the LNAPL. The source investigation is ongoing and discussed in Section 4.0. Figures 5a through 5d present apparent LNAPL thickness maps for April 29, 2015, June 29, 2015, September 8, 2015 and December 18, 2015, respectively. Table 2 presents the LNAPL thickness summary. Figure 6a through 6b present charts showing LNAPL thickness over time.

3.3 Groundwater Chemistry

During the first (June 2 - 3, 2015) and second (November 10 - 11, 2015) semi-annual monitoring event groundwater samples were collected from all wells except wells containing LNAPL or insufficient water for sample collection. The samples were collected after removing approximately three casing volumes of groundwater which was accomplished by pumping with a stainless steel environmental pump with dedicated polyethylene tubing or hand bailing with dedicated disposable polyethylene bailers. The

environmental pump was cleaned internally and externally with a solution of potable water and Alconox® detergent and rinsed with distilled water before the event and between wells. The polyethylene tubing was discarded after each use. Samples were collected using dedicated polyethylene bailers.

Sample aliquots were collected in laboratory prepared containers that were individually labeled, placed in an ice-chilled chest and delivered via overnight courier service with chain of custody seal and control to DHL Laboratories (DHL), a NELAP accredited laboratory, located in Round Rock, Texas. All samples were received intact and below the NELAP-required temperature parameter. Samples for dissolved metals were filtered upon arrival at the laboratory. DHL analyzed the samples for BTEX, dissolved (filtered) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, calcium, magnesium, potassium and sodium), anions (alkalinity, chloride, sulfate), and TDS. Table 2 presents a summary of the BTEX analysis. Table 3 presents a summary of the metals analysis. Table 4 presents a summary of the anion, cation and TDS analysis. Appendix A contains a CD-ROM of the laboratory analytical reports. Laboratory analytical results are discussed in the following sections.

3.3.1 BTEX Analytical Results

Samples were analyzed for BTEX by EPA SW-846 method 8021B. All benzene concentrations were below the solubility limit of 1,770 milligrams per liter (mg/L). The following is a summary of wells from the first (June 2015) and second (November 2015) semi-annual sampling events with benzene concentrations above the New Mexico Water Quality Control Commission (WQCC) human health standard of 0.01 mg/L.

June 2015 Benzene Results

The laboratory reported benzene in excess of the WQCC human health standard of 0.01 mg/L in samples from the following monitoring wells:

- MW-06 (0.8 mg/L)
- MW-11 (0.592 mg/L)
- MW-14 (0.639 mg/L)
- MW-18 (0. 0111 mg/L)
- MW-19 (0.0173 mg/L)
- MW-23 (0.0107 mg/L)
- MW-28 (1.47 mg/L)
- HV-6 (0.0337 mg/L)

No data quality exceptions were noted in the DHL case narratives. Figure 7a presents a map showing benzene concentrations in groundwater on June 2 - 3, 2015.

November 2015 Benzene Results

The laboratory reported dissolved benzene concentrations in excess of the WQCC human health standard of 0.01 mg/L in samples from the following monitoring wells:

- MW-06 (0.50 mg/L)
- MW-11 (0.0527 mg/L)
- MW-14 (0.559 mg/L)
- MW-18 (0. 0277 mg/L)
- MW-19 (0.0291 mg/L)
- MW-25 (0.0117 mg/L)
- MW-28 (0.75 mg/L)

No data quality exceptions were noted in the DHL case narratives. The laboratory results do not show any apparent increasing or decreasing trends in benzene concentration. Figure 7b presents benzene concentrations in groundwater during the November 2015 sampling event.

3.3.2 Dissolved Metals Analytical Results

Samples were analyzed for dissolved metals by EPA SW-846 methods -6020 (arsenic, barium, cadmium, chromium, lead, selenium and silver) and 7470A (mercury). All samples were laboratory-filtered to exclude particles larger than 0.45µ and acidified with nitric acid within 24 hours of collection. With the exception of barium and arsenic, all metal compounds were below the WQCC human health standards during the first and second sampling events of 2015. Chromium was historically observed in well MW-1 (up gradient) at concentrations above the WQCC human health standard (0.05 mg/L), but has been below the standard since June 4, 2014.

May 2015 Dissolved Metals Results

Arsenic

The laboratory reported dissolved arsenic (0.160 mg/L) in excess of the WQCC human health standard of 0.10 mg/L groundwater from MW-28.

Barium

The laboratory reported dissolved barium in excess of the WQCC human health standard of 1.0 mg/L in samples from the following monitoring wells:

- MW-06 (1.30 mg/L)
- MW-11 (1.31 mg/L)
- MW-25 (1.10 mg/L)
- MW-26 (1.05 mg/L)
- MW-28 (6.14 mg/L)

November 2015 Dissolved Metals Results

Arsenic

The laboratory reported dissolved arsenic (0.101 mg/L) slightly in excess of the WQCC human health standard of 0.10 mg/L in samples from MW-28.

Barium

The laboratory reported dissolved barium in excess of the WQCC human health standard of 1.0 mg/L in samples from the following monitoring wells:

- MW-06 (1.47 mg/L)
- MW-28 (6.39 mg/L)

- MW-11 (1.56 mg/L)

No data quality exceptions were noted in the DHL case narratives. The laboratory results do not show any apparent increasing or decreasing trends in arsenic and barium concentrations.

3.3.3 General Chemistry Analytical Results

Groundwater samples were analyzed for cations (calcium, magnesium, potassium and sodium), anions (alkalinity, chloride and sulfate) and TDS by EPA SW-846 method 6060, Standard Method M2320B, Standard Method E300 and Standard Method M2540C. Chloride, sulfate and TDS exceeded WQCC domestic water quality standards in the following samples.

June 2015 Results

Chloride – The laboratory reported chloride above the background (MW-9) concentration (287 mg/L) and the WQCC domestic water quality standard (250 mg/L) in samples from the following wells during June 2015:

- MW-01 (839 mg/L)
- MW-04 (440 mg/L)
- MW-06 (872 mg/L)
- MW-09 (287 mg/L)
- MW-12 (6,920 mg/L)
- MW-13 (6,520 mg/L)
- MW-14 (24,500 mg/L)
- MW-15 (391 mg/L)
- MW-18 (11,200 mg/L)
- MW-19 (13,300 mg/L)
- MW-20 (3,180 mg/L)
- MW-21 (4,620 mg/L)
- MW-23 (344 mg/L)
- MW-24 (552 mg/L)
- MW-30 (4,980 mg/L)
- HV-3 (6,630 mg/L)
- HV-6 (1,880 mg/L)
- HV-8 (2,360 mg/L)

The highest chloride concentration (24,500 mg/L) was reported in the sample from well MW-14 located near the southeast (down gradient) property corner. The elevated chloride is likely attributed with historic brine water storage ponds used in connection with underground caverns. The storage ponds and wells are no longer used and are closed. Chloride was also elevated in well MW-12 (6,920 mg/L) located north (up gradient) of the Facility is likely due to a produced water impact as no hydrocarbons (BTEX) were reported in the sample. Figure 8a presents an isopleth drawing of the chloride concentrations in groundwater on June 2 - 3, 2015.

Sulfate – The background (MW-9) sulfate concentration (80 mg/L) and WQCC domestic water quality standard (600 mg/L) were exceeded in samples from the following monitoring wells:

- MW-04 (1,650 mg/L)
- MW-12 (1,340 mg/L)
- MW-13 (1,370 mg/L)
- MW-19 (983 mg/L)
- MW-20 (753 mg/L)
- MW-30 (981 mg/L)

- MW-14 (645 mg/L)
- HV-3 (1,130 mg/L)

The sulfate concentrations are variable with no apparent increasing or decreasing trends.

TDS – The laboratory reported TDS in excess of the background (MW-9) concentration (863 mg/L) and WQCC domestic water quality standard (1,000 mg/L) in samples from the following monitoring wells:

- MW-01 (2,630 mg/L)
- MW-04 (3,710 mg/L)
- MW-05 (1,100 mg/L)
- MW-06 (2,090 mg/L)
- MW-07 (1,190 mg/L)
- MW-08 (1,570 mg/L)
- MW-10 (1,020 mg/L)
- MW-12 (15,700 mg/L)
- MW-13 (14,300 mg/L)
- MW-14 (37,700 mg/L)
- MW-15 (1,720 mg/L)
- MW-16 (1,490 mg/L)
- MW-18 (22,800 mg/L)
- MW-19 (25,000 mg/L)
- MW-20 (6,620 mg/L)
- MW-21 (8,200 mg/L)
- MW-23 (3,410 mg/L)
- MW-24 (2,100 mg/L)
- MW-25 (935 mg/L)
- MW-26 (950 mg/L)
- MW-28 (1,030 mg/L)
- MW-30 (11,000 mg/L)
- HV-3 (15,100 mg/L)
- HV-6 (4,970 mg/L)
- HV-8 (6,370 mg/L)

The highest TDS concentration (37,700 mg/L) was reported in groundwater from well MW-14 and is likely affiliated with the elevated chloride from this well. The TDS concentration in well MW-12 (15,700 mg/L) appears to be related to the chloride which is likely from a produced water impact since no hydrocarbons (BTEX) were reported in the sample. Figure 9a presents an isopleth drawing of the TDS concentrations in groundwater on June 2 - 3, 2015.

November 2015 Results

Chloride – The laboratory reported chloride at concentrations above background (271 mg/L) in well MW-9 and the WQCC domestic water quality standard (250 mg/L) in samples from the following wells during November 2015:

- MW-01 (863 mg/L)
- MW-04 (416 mg/L)
- MW-06 (862 mg/L)
- MW-12 (6,190 mg/L)
- MW-13 (6,810 mg/L)
- MW-14 (24,500 mg/L)
- MW-15 (396 mg/L)
- MW-18 (11,600 mg/L)
- MW-20 (3,090 mg/L)
- MW-21 (4,980 mg/L)
- MW-23 (555 mg/L)
- MW-24 (453 mg/L)
- MW-28 (506 mg/L)
- MW-30 (4,570 mg/L)
- HV-3 (7,060 mg/L)
- HV-8 (2,920 mg/L)

- MW-19 (13,000 mg/L)

The highest chloride concentration (24,500 mg/L) was reported in the sample from well MW-14 located near the southeast (down gradient) property corner. The elevated chloride is likely attributed with historic brine water storage ponds used in connection with underground caverns. The storage ponds and wells are no longer used and are closed. Chloride was also elevated in well MW-12 (6,190 mg/L) located north (up gradient) of the Facility is likely due to a produced water impact as no hydrocarbons (BTEX) was reported in the sample. Figure 8b presents an isopleth drawing of the chloride concentrations in groundwater on November 10 - 11, 2015.

Sulfate – The background (MW-9) sulfate concentration (72 mg/L) and WQCC domestic water quality standard of 600 mg/L were exceeded in samples from the following monitoring wells:

- MW-04 (1,490 mg/L)
- MW-12 (1,230 mg/L)
- MW-13 (1,350 mg/L)
- MW-14 (611 mg/L)
- MW-19 (889 mg/L)
- MW-20 (671 mg/L)
- MW-21 (835 mg/L)
- MW-23 (868 mg/L)
- MW-30 (964 mg/L)
- HV-3 (1,090 mg/L)

The sulfate concentrations are variable with no apparent increasing or decreasing trends.

TDS – The laboratory reported TDS concentrations in excess of background (993 mg/L) in MW-9 and the WQCC domestic water quality standard (1,000 mg/L) in samples from the following monitoring wells:

- MW-01 (2,600 mg/L)
- MW-04 (3,340 mg/L)
- MW-05 (1,290 mg/L)
- MW-06 (1,950 mg/L)
- MW-07 (1,030 mg/L)
- MW-08 (1,680 mg/L)
- MW-10 (1,030 mg/L)
- MW-12 (17,700 mg/L)
- MW-13 (18,300 mg/L)
- MW-14 (42,200 mg/L)
- MW-15 (1,700 mg/L)
- MW-16 (1,250 mg/L)
- MW-18 (37,100 mg/L)
- MW-19 (25,000 mg/L)
- MW-20 (7,140 mg/L)
- MW-21 (10,600 mg/L)
- MW-23 (3,430 mg/L)
- MW-24 (2,530 mg/L)
- MW-25 (1,260 mg/L)
- MW-28 (1,730 mg/L)
- MW-30 (12,000 mg/L)
- HV-3 (16,800 mg/L)
- HV-8 (6,400 mg/L)

The highest TDS concentration (42,200 mg/L) was reported in groundwater from wells MW-14 and is likely affiliated with the elevated chloride from this well. The TDS concentration in well MW-12 (17,700 mg/L) appears to be related to the chloride which is likely from a produced water impact since no hydrocarbons (BTEX) were reported in the sample. The laboratory results do not reveal any apparent

increasing or decreasing trends in chloride, sulfate and TDS concentrations. Figure 9b presents an isopleth drawing of the TDS concentrations in groundwater on November 10 - 11, 2015.

4.0 INVESTIGATIONS

4.1 LNAPL

Between February and December 2015 investigations were conducted to locate possible sources contributing to LNAPL near the southeast corner of the Facility and in the vicinity of MW-2A. Targa contracted a hydro excavator to expose lines and observe for leaks near the southeast corner of the Facility. No leaks were observed. Figure 11 presents the locations for the hydro excavator trenches and potholes.

On August 4 and November 5, 2016, SDI, under direction from LAI, drilled boring SB-1 in the area of the recovery well (RW-1) and MW-22. Boring SB-2 was drilled east of the Facility and a pipeline east and northeast of the Facility. Soil samples were collected every 5 feet to 15 feet for headspace analysis using a calibrated photoionization detector (PID). Drilling stopped at 15 feet bgs for about 2 hours to allow for LNAPL, if present, to accumulate in the borings. No LNAPL was observed and PID readings were near background. The borings were advanced to about 40 feet bgs and a temporary well was placed in the borings to observe LNAPL. LNAPL was observed in SB-1 (2.13 feet).

Between November 11 and 19, 2015, LAI personnel supervised drilling 7 borings (SB-3 through SB-7) west of the LNAPL area near the southeast corner of the Facility. The borings were drilled in the same manner as described earlier and temporary wells were installed in the borings to observe for LNAPL. PID readings and observations revealed no leaks at the drilled locations between ground surface and 15 feet bgs. LNAPL was observed in borings SB-3, SB-5, SB-7 and SB-8 between approximately 0.55 feet (SB-8) and 3.16 feet (SB-5).

The LNAPL measurements suggested a possible source in the area in the vicinity of the former condensate tanks near the southeast corner of the Facility. Soil was excavated to about 10 feet bgs following removal of the tanks and the excavation was lined with a polyethylene liner prior to backfilling. In December 2015 a Targa contractor used a backhoe to excavate 2 trenches in the area and was careful not to disturb the liner. No leaks were observed. Targa and LAI personnel will continue investigating the source for the LNAPL prior to resuming LNAPL recovery. Figures 5a through 5d present LNAPL thickness maps. Figure 11 presents the trench locations.

4.2 Monitoring Wells

On April 15, 2015, LAI personnel supervised installing monitoring well MW-30 about 1,400 feet southeast (down gradient) of the Facility. The purpose was for delineating the down gradient extent of chloride and TDS in groundwater. The well was drilled on property owned by the State of New Mexico (SLO) whom granted an easement for installing the well. A permit was issued by the New Mexico State Engineer (OSE). Scarborough Drilling Inc., Lamesa, Texas, drilled the well with an air rotary rig to about 41.00 feet bgs. The well is screened from the top of redbed (Chinle formation) at about 40.75 feet bgs

to 20.75 feet bgs with 20 feet of 2 inch threaded schedule 40 PVC screen. The well screen is surrounded with graded silica sand to about 2 feet above the screen. The remainder of the borehole annulus is filled with bentonite chips to about 1 foot bgs. The well was developed by purging multiple times with a disposable PVC bailer until the well was dry. The well is secured with a locking steel cover anchored in concrete measuring about 2 x 2 x 0.5 feet. The well was surveyed for location, ground and top of casing (TOC) elevation by a professional land surveyor licensed in New Mexico. Table 1 presents the drilling and completion summary. Figure 3 presents the well location. Appendix B presents the geologic log and well completion diagram.

The Chinle formation occurs at about 40 feet bgs. Groundwater occurs at about 38.31 feet bgs; therefore, the saturated thickness is about 1.69 feet at MW-30. Groundwater samples were collected from MW-30 during semi-annual groundwater monitoring on June 2, 2015 and November 11, 2015. On November 11, 2015, the chloride and TDS concentrations were 4,570 mg/L and 12,000 mg/L, respectively. The laboratory results show a significant decrease in concentration when compared to MW-14 which was 24,500 mg/L (chloride) and 42,200 mg/L (TDS) for the same period. The down gradient extent of chloride and TDS were not delineated by well MW-30 therefore Targa proposes to install an additional well (MW-31) at the approximate location shown on Figure 10. The well will be drilled with an air rotary rig to the top of the redbed (Chinle formation) and completed as a permanent monitoring well if groundwater is observed. If groundwater is not observed during drilling the boring will be completed as a temporary well for gauging groundwater. If groundwater is not observed approximately 24 hours after drilling it will signify the aquifer is not present and the boring will be plugged according to OSE rules. Figure 12 presents the proposed well (MW-31) location.

5.0 CONCLUSIONS

The following conclusions are based on observations documented in this report:

- Groundwater flow direction remains consistent towards the southeast at a gradient of about 0.008 feet per foot;
- Elevated groundwater possibly due to LNAPL was apparent near the southeast corner of the Facility during the first (May 2015) and second (November 2015) groundwater sampling events;
- LNAPL (condensate) was observed in 16 wells during the first (May 2015) and 17 wells during the second (November 2015) groundwater sampling events;
- Benzene exceeded the WQCC human health standard of 0.01 mg/L in groundwater samples from eight (8) monitoring wells during the first monitoring event (June 2015) and seven (7) wells during the second (November 2015) monitoring event;
- Arsenic did exceeded the WQCC human health standard of 0.1 mg/L in groundwater samples from MW-28 during June and November 2015;
- Barium exceeded the WQCC human health standard of 1.0 mg/L in groundwater samples from 5 monitoring wells during June and from MW-6 (1.47 mg/L), MW-11 (1.56 mg/L) and MW-28 (6.39mg/L) during November;
- Chloride exceeded the WQCC domestic water quality standard of 250 mg/L in groundwater samples from 19 monitoring wells during June and 17 monitoring wells during November 2015;

- The highest chloride concentrations were reported in monitoring well MW-14 during June (24,500 mg/L) and November (24,500 mg/L) 2015;
- Sulfate exceeded the WQCC domestic water quality standard of 600 mg/L in groundwater samples from eight (8) monitoring wells during June and 10 monitoring wells during November 2015;
- The highest sulfate concentrations were reported in monitoring well MW-04 during June (1,650 mg/L) 2015 and November (1,490 mg/L) 2015;
- TDS exceeded the WQCC domestic water quality standard of 1,000 mg/L in groundwater samples from 23 monitoring wells during June and November 2015;
- The highest TDS concentrations were reported in monitoring well MW-14 during June (37,700 mg/L) and during November (42,200 mg/L) 2015;
- A down gradient monitoring well (MW-30) installed about 1,400 feet southeast of the Facility revealed an aquifer thickness of less than 2 feet and decreased concentrations of chloride and TDS;
- Investigations performed east of the Facility and near the southeast corner of the Facility did not identify the source(s) for LNAPL.

6.0 RECOMMENDATIONS

Targa will continue monitoring groundwater on a semi-annual (twice yearly) schedule during 2016. A monitoring well (MW-31) is proposed about 1,575 feet southeast of MW-30 for completing plume or aquifer delineation. Targa will continue efforts to identify the source(s) for LNAPL in the vicinity of MW-2A and in the southeast corner of the Facility and initiate LNAPL recovery. Notice will be given to the OCD at least 48-hours prior to performing the investigations and groundwater sampling. The groundwater monitoring and investigation results will be reported to the OCD in an annual report to be submitted during the first half of 2017. Any significant changes in groundwater quality will be reported to the OCD as soon as possible.

TABLES

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
MW-01	4/9/2002	60	62.05	2	3,416.39	40.17 - 59.79	2.05	3,418.44	11/5/2002	--	--	49.36	3,369.08
									5/15/2013	--	--	49.95	3,368.49
									10/1/2013	--	--	50.11	3,368.33
									11/18/2013	--	--	50.21	3,368.23
									6/20/2014	--	--	14.25	3,404.19
									9/18/2014	--	--	50.30	3,368.14
									12/17/2014	--	--	50.11	3,368.33
									5/11/2015	--	--	50.09	3,368.35
									11/9/2015	--	--	49.95	3,368.49
**MW-02	4/9/2002	40	42.14	2	3,392.80	19.17 - 38.79	2.14	3,394.94	11/5/2002	--	--	26.37	3,368.57
Well Plugged and Replaced by MW-02A													
MW-02A	2/18/2009	40	40.22	2	3392.68	18 - 38	2.65	3,395.33	3/23/2009	--	--	25.26	3,370.07
									5/15/2013	--	--	30.02	3,364.92
									10/1/2013	--	--	30.33	3,364.61
									11/18/2013	--	--	30.34	3,364.60
									6/20/2014	--	--	30.21	3,364.73
									12/19/2014	28.49	0.01	28.50	3,366.84
									5/11/2015	28.2	2.54	30.74	3,366.37
									11/9/2015	27.94	2.56	30.50	3,366.62
MW-03	4/9/2002	40	42.49	2	3,395.97	19.47 - 39.09	2.49	3,398.46	11/5/2002	--	--	23.69	3,374.77
									5/15/2013	29.61	0.02	29.63	3,368.84
									10/1/2013	28.13	1.62	29.75	3,369.84
									11/18/2013	29.58	1.87	31.45	3,368.32
									02/11/2014	28.93	2.61	31.54	3,368.75
									6/20/2014	28.81	3.38	32.19	3,368.64
									8/27/2014	28.91	6.67	35.58	3,367.55
									9/18/2014	28.89	--	28.89	3,369.57
									12/22/2014	28.18	5.51	33.69	3,368.63
									5/11/2015	28.37	4.95	33.32	3,368.61
									11/9/2015	27.73	6.04	33.77	3,368.92
MW-04	8/6/2002	35	37.48	2	3,385.73	14.87 - 34.49	2.48	3,388.21	11/5/2002	--	--	22.80	3,365.41

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									5/15/2013	--	--	25.58	3,362.63
									10/1/2013	--	--	25.91	3,362.30
									11/18/2013	--	--	25.67	3,362.54
									6/20/2014	--	--	25.66	3,362.55
									12/17/2014	--	--	21.76	3,366.45
									5/11/2015	--	--	23.32	3,364.89
									11/9/2015	--	--	20.12	3,368.09
MW-05	8/6/2002	40	42.55	2	3,394.29	19.87 - 39.49	2.55	3,396.84	11/5/2002	--	--	28.29	3,368.55
									5/15/2013	--	--	31.16	3,365.68
									10/1/2013	--	--	31.38	3,365.46
									11/18/2013	--	--	31.42	3,365.42
									6/20/2014	--	--	31.51	3,365.33
									9/18/2014	--	--	31.57	3,365.27
									12/18/2014	31.12	0.01	31.13	3,365.71
									5/11/2015	--	--	30.92	3,365.92
									11/9/2015	--	--	31.09	3,365.75
MW-06	8/6/2002	52	54.59	2	3,401.15	31.87 - 51.49	2.59	3,403.74	11/5/2002	--	--	37.81	3,365.93
									5/15/2013	--	--	39.31	3,364.43
									10/1/2013	--	--	39.42	3,364.32
									11/18/2013	--	--	39.46	3,364.28
									6/20/2014	--	--	39.54	3,364.20
									9/18/2014	--	--	39.61	3,364.13
									12/18/2014	39.34	0.01	39.35	3,364.39
									5/11/2015	--	--	39.35	3,364.39
									11/9/2015	--	--	39.26	3,364.48
MW-07	8/7/2002	60	62.46	2	3,417.25	39.87 - 59.49	2.46	3,419.71	11/5/2002	--	--	51.34	3,368.37
									5/15/2013	--	--	51.86	3,367.85
									10/1/2013	--	--	51.97	3,367.74
									11/18/2013	--	--	52.10	3,367.61
									6/20/2014	--	--	52.14	3,367.57
									9/18/2014	52.11	0.02	52.13	3,367.60

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									12/17/2014	--	--	52.00	3,367.71
									5/11/2015	--	--	52.06	3,367.65
									11/9/2015	--	--	51.92	3,367.79
MW-08	8/7/2002	75	77.35	2	3,428.66	54.87 - 74.49	2.35	3,431.01	11/5/2002	--	--	63.98	3,367.03
									5/15/2013	--	--	61.00	3,370.01
									10/1/2013	--	--	61.11	3,369.90
									11/18/2013	--	--	61.21	3,369.80
									6/20/2014	--	--	61.26	3,369.75
									12/17/2014	61.14	0.01	61.16	3,369.85
									5/11/2015	--	--	61.31	3,369.70
									11/9/2015	--	--	61.05	3,369.96
MW-09	8/7/2002	60	62.45	2	3,418.14	39.87 - 59.49	2.45	3,420.59	11/5/2002	--	--	50.24	3,370.35
									5/15/2013	--	--	50.45	3,370.14
									10/1/2013	--	--	50.06	3,370.53
									11/18/2013	--	--	50.70	3,369.89
									6/20/2014	--	--	14.71	3,405.88
									12/17/2014	50.65	0.01	50.66	3,369.93
									5/11/2015	--	--	50.77	3,369.82
									11/9/2015	--	--	50.61	3,369.98
MW-10	8/9/002	47	49.42	2	3,403.31	26.87 - 46.49	2.42	3,405.73	11/5/2002	--	--	35.68	3,370.05
									5/15/2013	--	--	35.96	3,369.77
									10/1/2013	--	--	36.11	3,369.62
									11/18/2013	--	--	36.15	3,369.58
									6/20/2014	--	--	36.12	3,369.61
									12/17/2014	35.99	0.01	36.00	3,369.73
									5/11/2015	--	--	36.03	3,369.70
									11/9/2015	--	--	35.81	3,369.92
MW-11	8/8/2002	47	49.51	2	3,395.51	30.87 - 50.49	2.50	3,398.01	11/5/2002	--	--	30.51	3,367.50
									5/15/2013	--	--	30.93	3,367.08
									10/1/2013	--	--	31.25	3,366.76

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									11/18/2013	--	--	31.19	3,366.82
									6/20/2014	--	--	30.79	3,367.22
									9/18/2014	--	--	31.11	3,366.90
									12/17/2014	30.34	0.01	30.35	3,367.66
									5/11/2015	--	--	30.12	3,367.89
									11/9/2015	--	--	30.02	3,367.99
MW-12	6/3/2003	45	46.97	2	3,394.81	25.00 - 44..49	1.97	3,396.78	6/12/2003	--	--	28.57	3,368.21
									5/15/2013	--	--	29.30	3,367.48
									10/1/2013	--	--	29.95	3,366.83
									11/18/2013	--	--	29.69	3,367.09
									6/20/2014	--	--	29.26	3,367.52
									12/18/2014	--	--	28.62	3,368.16
									5/11/2015	--	--	28.60	3,368.18
									11/9/2015	--	--	28.89	3,367.89
MW-13	6/3/2003	35	36.87	2	3,385.82	25.00 - 34.49	1.87	3,387.69	6/12/2003	--	--	27.33	3,360.36
									5/15/2013	--	--	32.22	3,355.47
									10/1/2013	--	--	32.53	3,355.16
									11/18/2013	--	--	32.50	3,355.19
									6/20/2014	--	--	32.68	3,355.01
									12/17/2014	--	--	27.75	3,359.94
									5/11/2015	--	--	28.93	3,358.76
									11/9/2015	--	--	28.10	3,359.59
MW-14	6/3/2003	47	49.33	2	3,379.66	27.00 - 46.49	2.33	3,381.99	6/12/2003	--	--	29.90	3,352.09
									5/15/2013	--	--	31.94	3,350.05
									10/1/2013	--	--	32.01	3,349.98
									11/18/2013	--	--	31.83	3,350.16
									6/20/2014	--	--	31.91	3,350.08
									9/18/2014	--	--	31.97	3,350.02
									12/17/2014	--	--	36.63	3,345.36
									5/11/2015	--	--	31.10	3,350.89
									11/9/2015	--	--	31.01	3,350.98

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
MW-15	6/4/2003	45	46.94	2	3,394.67	25.00 - 44.49	1.94	3,396.61	6/12/2003	--	--	38.73	3,357.88
									5/15/2013	--	--	37.94	3,358.67
									10/1/2013	--	--	38.03	3,358.58
									11/18/2013	--	--	37.98	3,358.63
									6/20/2014	--	--	38.01	3,358.60
									12/18/2014	37.74	0.01	37.75	3,358.86
									5/11/2015	--	--	37.97	3,358.64
									11/9/2015	--	--	37.94	3,358.67
MW-16	6/4/2003	45	47.03	2	3,402.48	25.00 - 44.49	2.03	3,404.51	6/12/2003	--	--	41.25	3,363.26
									5/15/2013	--	--	40.67	3,363.84
									10/1/2013	--	--	11.52	3,392.99
									11/18/2013	--	--	40.80	3,363.71
									6/20/2014	--	--	40.83	3,363.68
									12/17/2014	--	--	40.66	3,363.85
									5/11/2015	--	--	40.85	3,363.66
									11/9/2015	--	--	40.80	3,363.71
MW-17	12/19/2005	35	37.02	2	3,372.62	19.49 - 34.49	2.02	3,374.64	1/19/2006	--	--	Dry	--
									4/15/2015	Well Plugged			
MW-18	12/19/2005	35	37.15	2	3,373.02	19.49 - 34.49	2.15	3,375.17	1/19/2006	--	--	26.06	3,349.11
									5/15/2013	--	--	--	--
									10/2/2013	--	--	30.09	3,345.08
									11/18/2013	--	--	29.82	3,345.35
									6/20/2014	--	--	29.69	3,345.48
									12/19/2014	--	--	28.95	3,346.22
									5/11/2015	--	--	28.79	3,346.38
									11/9/2015	--	--	28.81	3,346.36
MW-19	10/31/2005	38	40.00	2	3,378.55	23.00 - 37.49	2.46	3,381.01	11/30/2005	--	--	29.36	3,351.65
									5/15/2013	--	--	--	--
									10/2/2013	--	--	32.64	3,348.37

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Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

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Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									11/18/2013	--	--	32.61	3,348.40
									6/20/2014	--	--	32.44	3,348.57
									9/18/2014	--	--	32.58	3,348.43
									12/22/2014	--	--	32.15	3,348.86
									5/11/2015	--	--	32.03	3,348.98
									11/9/2015	--	--	32.05	3,348.96
MW-20	10/31/2005	48	50.00	2	3,387.68	33.00 - 47.41	2.41	3,390.09	11/30/2005	--	--	36.16	3,353.93
									5/15/2013	--	--	--	--
									10/2/2013	--	--	39.02	3,351.07
									11/18/2013	--	--	38.91	3,351.18
									12/22/2014	--	--	39.39	3,350.70
									5/11/2015	--	--	38.34	3,351.75
									11/9/2015	--	--	38.38	3,351.71
MW-21	2/19/2009	45	44.46	2	3,385.82	25 - 45	2.18	3,388.00	3/23/2009	--	--	31.75	3,356.25
									5/15/2013	--	--	35.28	3,352.72
									10/2/2013	--	--	38.48	3,349.52
									11/18/213	--	--	34.14	3,353.86
									12/18/2014	--	--	33.25	3,354.75
									5/11/2015	--	--	34.32	3,353.68
									11/9/2015	--	--	31.92	3,356.08
MW-22	3/8/2010	32	35.17	2	3,398.94	21.5 - 31	2.85	3,401.79	3/19/2010	29.47	2.85	32.32	3,371.47
									5/15/2013	30.68	3.85	34.53	3,369.96
									10/2/2013	30.85	4.32	35.17	3,369.64
									11/18/2013	30.81	4.04	34.85	3,369.77
									02/11/2014	30.83	3.75	34.58	3,369.84
									6/20/2014	30.91	3.65	34.61	3,369.74
									9/19/2014	30.65	3.87	34.52	3,369.98
									12/22/2014	29.71	0.88	30.59	3,371.82
									5/11/2015	30.51	3.38	33.89	3,370.27
									11/9/2015	30.37	3.38	33.75	3,370.41

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Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
MW-23	3/9/2010	31	33.84	2	3,389.21	20.5 - 30.5	2.36	3,391.57	3/19/2010	--	--	19.68	3,371.89
									5/15/2013	Sheen	--	24.46	3,367.11
									10/2/2013	--	--	25.16	3,366.41
									11/18/2013	--	--	24.36	3,367.21
									6/20/2014	--	--	24.96	3,366.61
									12/17/2014	22.46	0.01	22.47	3,369.10
									5/11/2015	--	--	23.76	3,367.81
									11/9/2015	--	--	22.91	3,368.66
MW-24	5/21/2010	35	37.54	2	3,400.98	19.5 - 34.5	2.34	3,403.32	5/27/2010	--	--	30.06	3,373.26
									5/15/2013	--	--	33.02	3,370.30
									10/2/2013	--	--	33.25	3,370.07
									11/18/2013	--	--	33.27	3,370.05
									6/20/2014	--	--	33.45	3,369.87
									9/18/2014	--	--	34.24	3,369.08
									12/22/2014	33.24	0.01	33.25	3,370.07
									5/11/2015	--	--	33.21	3,370.11
									11/9/2015	--	--	33.49	3,369.83
MW-25	5/21/2010	36	38.14	2	3,403.28	20.5 - 35.5	2.07	3,405.35	5/27/2010	--	--	33.02	3,372.33
									5/15/2013	--	--	35.59	3,369.76
									10/2/2013	--	--	35.92	3,369.43
									11/18/2013	--	--	35.96	3,369.39
									6/20/2014	--	--	36.21	3,369.14
									12/19/2014	--	--	36.35	3,369.00
									5/11/2015	--	--	36.15	3,369.20
									11/9/2015	--	--	36.20	3,369.15
MW-26	5/24/2010	34	36.79	2	3,400.80	18.5 - 33.5	2.38	3,403.18	5/27/2010	--	--	31.39	3,371.79
									5/15/2013	--	--	34.50	3,368.68
									10/2/2013	--	--	34.77	3,368.41
									11/18/2013	--	--	34.08	3,369.10
									6/20/2014	--	--	35.04	3,368.14
									9/18/2014	--	--	32.14	3,371.04

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									12/22/2014	34.33	0.01	34.34	3,368.84
									5/11/2015	--	--	34.44	3,368.74
									11/9/2015	--	--	34.55	3,368.63
MW-27	2/4/2011	36.5	38.49	2	3398.1	16.5 - 36.5	1.99	3,400.12	6/22/2011	28.55	1.09	29.64	3,371.24
									5/15/2013	28.96	2.73	31.69	3,370.34
									10/2/2013	29.20	2.6	31.80	3,370.14
									11/18/2013	29.27	2.68	31.95	3,370.05
									02/11/2014	29.35	2.6	31.95	3,369.99
									6/20/2014	29.51	0.08	29.59	3,370.59
									8/27/2014	29.59	2.24	31.83	3,369.86
									9/18/2014	29.61	1.96	31.57	3,369.92
									12/19/2014	29.1	1.49	30.59	3,370.57
									5/11/2015	29.09	0.7	29.79	3,370.82
									11/9/2015	29.02	0.74	29.76	3,370.88
MW-28	2/7/2011	33.5	36.41	2	3397.2	18.5 - 33.5	2.91	3,400.12	6/22/2011	26.59	0.03	26.62	3,373.52
									5/15/2013	--	--	30.78	3,369.34
									10/2/2013	--	--	31.10	3,369.02
									11/18/2013	--	--	31.06	3,369.06
									6/20/2014	--	--	31.21	3,368.91
									8/27/2014	31.31	0.01	31.32	3,368.81
									9/18/2014	31.34	0.01	31.35	3,368.78
									12/22/2014	28.56	0.01	28.57	3,371.56
									5/11/2015	--	--	30.16	3,369.96
									11/9/2015	--	--	30.37	3,369.75
MW-29	3/9/2011	26.0	28.88	2	3389.3	--	2.88	3,392.18	6/21/2011	23.84	1.03	24.87	3,368.03
									5/15/2013	27.90	0.34	28.24	3,364.18
									10/2/2013	28.13	0.1	28.23	3,364.02
									11/18/2013	28.16	0.07	28.23	3,364.00
									02/11/2014	28.23	0.03	28.26	3,363.94
									6/20/2014	--	--	28.33	3,363.85
									8/27/2014	28.33	0.01	28.34	3,363.85

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									9/18/2014	28.36	0.33	28.69	3,363.72
									12/19/2014	28.21	0.01	28.22	3,363.97
									5/11/2015	--	--	27.43	3,364.75
									11/9/2015	26.90	0.96	27.86	3,364.99
MW-30	4/15/2015	41	44.00	2	3369.3	20.75 - 40.75	3.00	3,372.03	5/11/2015	--	--	41.04	3,330.99
									11/9/2015	--	--	40.83	3,331.20
RW-1	2/9/2011	37.5	40.24	2	3398.9	22.5 - 37.5	2.74	3,401.63	6/22/2011	26.37	4.81	31.18	3,373.82
									5/15/2013	--	--	--	--
									10/2/2013	--	--	--	--
									11/18/2013	--	--	--	--
									02/11/2014	30.48	5.48	35.96	3,369.51
									6/20/2014	30.58	5.4	35.98	3,369.43
									12/22/2014	29.26	1.04	30.30	3,372.06
									5/11/2015	29.90	2.99	32.89	3,370.83
									11/9/2015	29.73	3.88	33.61	3,370.74
VW-1	2/4/2011	38.0						3,400.66	6/22/2011	--	--	--	--
									5/15/2013	29.96	0.08	30.04	3,370.68
									10/2/2013	30.15	0.23	30.38	3,370.44
									11/18/2013	30.16	0.24	30.40	3,370.43
									02/11/2014	30.21	0.33	30.54	3,370.35
									6/20/2014	29.25	1.04	30.29	3,371.10
									12/22/2014	28.58	0.4	28.98	3,371.96
									5/11/2015	29.3	0.36	29.66	3,371.25
									11/9/2015	29.55	0.15	29.70	3,371.07
VW-2	2/8/2011	37.5						3,400.66	6/22/2011	--	--	--	--
									5/15/2013	28.06	5.03	33.09	3,371.09
									10/2/2013	28.25	5.33	33.58	3,370.81
									11/18/2013	28.26	5.37	33.63	3,370.79
									02/11/2014	28.30	5.4	33.70	3,370.74
									6/20/2014	--	--	28.38	3,372.28

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									12/22/2014	26.99	3.13	30.12	3,372.73
									5/11/2015	27.73	3.95	31.68	3,371.75
									11/9/2015	27.73	4.48	32.21	3,371.59
VW-3	2/8/2011	37.5						3,398.78	6/22/2011	--	--	--	--
									5/15/2013	26.90	4.05	30.95	3,368.86
									10/2/2013	27.06	4.75	31.81	3,370.30
									11/18/2013	27.00	4.73	31.73	3,370.85
									02/11/2014	27.08	4.46	31.54	3,369.87
									6/20/2014	--	--	27.22	3,371.56
									12/22/2014	29.78	0.01	29.79	3,369.00
									5/11/2015	26.61	1.93	28.54	3,371.59
									11/9/2015	26.38	1.87	28.25	3,371.84
VW-4	2/8/2011	37.5						3,399.00	6/22/2011	--	--	--	--
									5/15/2013	27.09	3.96	31.05	3,370.72
									10/2/2013	27.25	4.41	31.66	3,370.43
									11/18/2013	27.21	4.46	31.67	3,370.45
									02/11/2014	27.25	4.45	31.70	3,370.42
									6/20/2014	27.39	4.55	31.94	3,370.25
									9/18/2014	26.84	2.76	29.60	3,371.33
									12/22/2014	26.45	0.01	26.46	3,372.55
									5/11/2015	26.90	2.06	28.96	3,371.48
									11/9/2015	26.82	2.98	29.80	3,371.29
HVR-1	--	--	--	--	--	--	--	--	02/11/2014	28.95	4.53	33.48	
									9/19/2014	29.01	4.84	33.85	
									12/22/2014	28.15	1.56	29.71	
									5/11/2015	28.56	2.03	30.59	
									11/9/2015	28.60	2.06	30.66	
HV-1	--	--	--	--	--	--	--	--	02/11/2014	29.17	5.62	34.79	
									9/19/2014	29.34	5.61	34.95	
									12/22/2014	28.80	4.41	33.21	

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									5/11/2015	28.79	9.43	38.22	
									11/9/2015	28.79	4.27	33.06	
HV-2	--	--	--	--	--	--	--	--	02/11/2014	28.83	1.78	30.61	
									8/27/2014	29.11	1.66	30.77	
									9/19/2014	29.11	1.71	30.82	
									12/18/2014	28.75	1.64	30.39	
									5/11/2015	28.48	1.61	30.09	
									11/9/2015	28.40	1.51	29.91	
HV-3	--	--	--	--	--	--	--	--	02/11/2014	--	--	28.81	
									8/27/2014	29.54	0.01	29.55	
									9/19/2014	--	--	29.54	
									12/18/2014	--	--	28.73	
									5/11/2015	--	--	28.21	
									11/9/2015	--	--	28.37	
HV-4	--	--	--	--	--	--	--	--	02/11/2014	--	--	29.56	
									8/27/2014	30.22	0.01	30.23	
									9/19/2014	--	--	30.08	
									12/19/2014	29.42	0.01	29.43	
									5/11/2015	28.35	1.28	29.63	
									11/9/2015	28.06	1.92	29.98	
HV-5	--	--	--	--	--	--	--	--	02/11/2014	--	--	29.70	
									8/27/2014	30.33	0.02	30.35	
									12/19/2014	29.74	1.67	31.41	
									5/11/2015	29.29	1.33	30.62	
									11/9/2015	29.27	1.24	30.51	
HV-6	--	--	--	--	--	--	--	--	02/11/2014	--	--	27.61	
									8/27/2014	29.19	0.10	29.29	
									9/19/2014	29.05	sheen	29.05	
									12/18/2014	--	--	27.99	

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
									5/11/2015	--	--	27.35	
									11/9/2015	--	--	27.55	
HV-7	--	--	43.11	--	--	--	--	--	02/11/2014	29.97	3.34	33.31	
									9/19/2014	--	--	30.29	
									8/27/2014	30.24	3.19	33.43	
									12/19/2014	29.63	3.59	33.22	
									5/11/2015	29.20	3.02	32.22	
									11/9/2015	29.20	2.06	31.26	
HV-8	--	--	--	--	--	--	--	--	02/11/2014	--	--	30.13	
									8/27/2014	30.45	0.01	30.46	
									9/19/2014	--	--	30.46	
									12/18/2014	--	--	31.41	
									5/11/2015	--	--	26.16	
									11/9/2015	--	--	28.97	
HV-9	--	--	28.78	--	--	--	--	--	02/11/2014	--	--	28.69	
									8/22/2014	--	--	dry	
									12/19/2014	--	--	28.38	
									5/11/2015	--	--	27.95	
									11/9/2015	--	--	27.74	
MW-UN-01	N/D	32.7	N/D	N/D	N/D	N/D	N/D	N/D	11/24/2008	--	--	sheen	--
									5/15/2013	--	--	--	--
									10/2/2013	25.23	0.05	25.28	--
									11/18/2013	25.15	0.15	25.30	--
									02/11/2014	25.30	0.17	25.47	--
									6/20/2014	25.46	0.45	25.91	--
									12/19/2014	23.90	0.81	24.71	
									5/11/2015	24.31	0.3	24.61	
									11/9/2015	24.02	0.23	24.25	

Table 1
Monitoring Well Completion and Gauging Summary
Targa Midstream Services, L.P., Eunice Middle Plant Gas Plant
Lea County, New Mexico

Well Information									Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Product (feet BGS)	LNAPL Thickness	Depth to Water (feet BGS)	Corrected Water Elevation (feet AMSL)
MW-UN-02	--	--	38.84	2	--	--	--	--	11/24/2008	--	--	sheen	--
									5/15/2013	--	--	31.63	
									10/2/2013	--	--	31.83	
									11/18/2013	--	--	31.88	
									6/20/2014	--	--	32.07	
									9/18/2014	--	--	32.10	
									12/19/2014	31.62	0.01	31.63	
									5/11/2015	No Longer Accessible			

Notes: Wells drilled and installed by Scarborough Drilling, Inc., Lamesa, Texas, using schedule 40 threaded PVC casing and screen.
All values are in feet, unless otherwise noted.
bgs - below ground surface
TOC - top of casing
Elevations are above mean sea level referenced to 1984 Geodetic Datum.
* Groundwater elevation corrected for PSH assuming 0.7 specific gravity
UN Monitoring well not installed by Targa
[1-] MW-5 damaged during road repair. TOC height resurveyed.

Table 2
Apparent LNAPL Thickness
Targa Midstream Services, LLC, Eunice Gas Plant
Lea County, New Mexico

Well	4/9/2015	4/13/2015	4/29/2015	5/18/2015	6/9/2015	6/19/2015	6/29/2015	7/10/2015	7/30/2015	8/5/2015	8/19/2015	8/24/2015	9/8/2015	9/24/2015	10/2/2015	10/7/2015	10/21/2015	11/3/2015	11/25/2015	12/18/2015	12/29/2015
MW-2A	1.55	1.82	2.31	2.57	2.27	2.54	2.69	2.68	3.02		3.01	3.04	3.07	3.43	3.06	3.21		2.64		1.32	0.71
MW-3	4.86	4.9	5.32	5.23	3.67	5.03	5.26	5.17	5.44	5.44	5.08	5.56	5.42	5.75	5.78	5.81	5.78	5.74	5.45	5.01	5.41
MW-22	2.56	3.01	2.92	3.1	3.18	3.29	3.31	3.33	3.73	3.51	3.55	3.60	3.78	3.63	3.71	3.84	3.71	4.42	3.04	3.13	3.11
MW-27	0.52	0.61	0.71	0.69	0.64	0.65	0.67	0.73	0.74	0.73	0.71	0.80	0.71	0.84	0.46	0.75	0.46	0.72	0.48	0.81	0.46
MW-29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.08	--	--
RW-1	2.44	2.69	2.78	2.56	3.21	3.37	3.38	3.40	3.66	3.09	4.27	3.83	3.75	3.88	3.78	4.08	3.78	3.99	3.76	4.01	3.60
VW-1	0.27	0.27	0.34	0.37	--	--	--	--	0.27	--	0.25	0.26	0.24	0.25	0.27	0.26	0.32	0.17	0.15	0.21	*
VW-2	3.74	3.76	3.75	3.87	4.02	4.07	4.11	2.38	0.43	4.17	4.27	4.26	4.23	4.46	4.28	4.95	4.23	4.49	4.42	4.51	*
VW-3	2.23	1.01	1.76	2.15	3.3	2.42	1.55	2.43	2.71	2.62	2.94	3.23	2.79	3.10	2.78	2.93	2.78	1.82	1.83	1.14	*
VW-4	1.97	2.00	2.00	2.45	2.23	2.77	2.53	2.35	2.46	2.76	2.66		2.77	2.94	2.93	3.03	2.93	2.92	2.76	2.86	*
HVR-1	1.87	1.85	1.99	1.98	1.83	2.07	2.08	2.05	2.42	2.35	2.22	2.33	2.24	2.52	4.33	2.34	2.36	2.15	1.79	1.79	1.72
HV-1	4.62	4.26	4.47	4.39	4.37	4.35	4.28	4.35	4.45	4.35	4.24	4.50	4.31	3.49		4.45	4.33	4.26	4.12	4.54	4.16
HV-2	1.55	1.65	1.68	1.69	0.99	1.29	1.35	1.32	1.53	1.45	1.47	1.56	1.07	1.66	1.55	1.61	1.55	1.54	1.44	1.58	1.43
HV-4	1.19	1.2	1.26	1.23		0.74	0.77	0.85	0.99	0.88	1.04	2.71	1.11	1.29	1.34	1.39	1.34	1.66	1.73	2.18	2.21
HV-5	1.22	1.21	1.38	1.29	1.38	1.49	1.48	1.38	1.56	1.69	1.35	1.55	1.50	0.54	1.41	1.42	1.41	1.38	0.74	1.04	1.01
HV-7	4.09	2.03	3.33	2.79	0.72	2.21	2.12	2.07	2.01	4.18	1.96	1.92	1.93	1.95	1.87	1.94	1.87	2.04	1.87	1.77	2.12
SB-1	--	--	--	--	--	--	--	--	--	--	4.50	3.93	4.48	0.51	4.54	4.69	4.54	4.71	4.51	4.61	
SB-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.68	*
SB-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.16	5.03
SB-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.57	0.73
SB-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.55	0.62

Notes: all thickness measuremets are in feet and based depth the LNAPL subtracted from depth to groundwater for arrarent LNAPL thickness

*: Denotes heavy snow cover presented access to well

--: No data available

Table 3
Summary of Groundwater BTEX Analyses
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
WQCC Human Health Standard:		**0.01**	**0.75**	**0.75**	**0.62**
MW-01	05/16/13	<0.0008	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	06/04/14	<0.0008	<0.002	<0.002	<0.003
	12/17/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-02	Well Replaced by MW-02A				
MW-02A	05/16/13	**0.01320**	0.00885	0.0779	0.121
	11/21/13	**0.131**	0.110	0.724	1.01
	06/04/14	**0.0124**	<0.0020	0.02	0.01
	12/18/14	**0.0802**	0.078	<0.01	0.02
	LNAPL Present				
MW-03	LNAPL Present				
	12/22/14	**1.33**	**2.52**	<0.04	**2.49**
	LNAPL Present				
MW-04	05/16/13	0.000848	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	06/11/14	<0.0008	<0.002	<0.002	<0.003
	12/17/14	0.00127	<0.002	<0.002	<0.003
	06/03/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-05	05/16/13	0.00305	<0.002	<0.002	<0.003
	11/20/13	<0.0008	<0.002	<0.002	<0.003
	06/11/14	0.00175	<0.002	0.0028	<0.003
	12/18/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-06	05/16/13	**0.62**	0.123	<0.01	<0.015
	11/20/13	**0.70**	0.697	<0.02	<0.03
	06/04/14	**1.49**	<0.01	0.2920	<0.015
	12/18/14	**1.44**	0.17100	<0.02	<0.03
	06/02/15	**0.80**	0.17300	<0.02	<0.03
	11/10/15	**0.50**	0.16900	<0.02	0.0375
MW-07	05/16/13	<0.0008	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	06/04/14	0.00118	<0.002	<0.002	<0.003
	12/17/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-08	05/16/13	<0.0008	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	06/04/14	<0.0008	<0.002	<0.002	<0.003
	12/17/14	<0.0008	<0.002	<0.002	<0.003

Table 3
Summary of Groundwater BTEX Analyses
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
WQCC Human Health Standard:		**0.01**	**0.75**	**0.75**	**0.62**
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/11/15	<0.0008	<0.002	<0.002	<0.003
MW-09	05/16/13	<0.0008	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	06/04/14	<0.0008	<0.002	<0.002	<0.003
	12/17/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/11/15	<0.0008	<0.002	<0.002	<0.003
MW-10	05/16/13	<0.0008	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	06/04/14	<0.0008	<0.002	<0.002	<0.003
	12/17/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/11/15	<0.0008	<0.002	<0.002	<0.003
MW-11	05/16/13	**0.0135**	<0.002	<0.002	<0.003
	11/19/13	**0.101**	<0.002	<0.002	<0.003
	12/17/14	**1.89**	0.0383	<0.002	0.039
	06/03/15	**0.592**	<0.02	<0.02	<0.03
	11/11/15	**0.0527**	<0.002	<0.002	<0.003
MW-12	05/16/13	<0.0008	<0.002	<0.002	<0.003
	11/20/13	<0.0008	<0.002	<0.002	<0.003
	12/18/14	<0.0008	<0.002	<0.002	<0.003
	06/03/15	<0.0008	<0.002	<0.002	<0.003
	11/11/15	<0.0008	<0.002	<0.002	<0.003
MW-13	05/16/13	0.00112	<0.002	0.0081	0.00922
	11/20/13	<0.0008	<0.002	<0.002	<0.003
	12/17/14	<0.0008	<0.002	<0.002	<0.003
	06/03/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-14	05/16/13	**0.551**	<0.01	<0.01	<0.015
	11/19/13	**0.301**	<0.02	<0.02	<0.03
	06/11/14	**0.634**	<0.02	<0.02	<0.03
	12/17/14	**0.189**	<0.02	<0.02	<0.03
	06/02/15	**0.639**	<0.002	<0.002	<0.003
	11/10/15	**0.559**	<0.01	<0.01	<0.015
MW-15	05/16/13	0.00211	<0.002	<0.002	<0.003
	11/20/13	<0.0008	<0.002	<0.002	<0.003
	06/11/14	0.00439	<0.002	0.00452	0.00390
	12/18/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-16	05/16/13	<0.0008	<0.002	<0.002	<0.003

Table 3
Summary of Groundwater BTEX Analyses
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
WQCC Human Health Standard:		**0.01**	**0.75**	**0.75**	**0.62**
	11/20/13	<0.0008	<0.002	<0.002	<0.003
	06/04/14	0.00091	<0.002	<0.002	<0.003
	12/17/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-17	Well Plugged				
MW-18	05/17/13	0.00172	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	06/11/14	0.00156	<0.002	<0.002	<0.003
	12/19/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	**0.0111**	<0.002	<0.002	<0.003
	11/11/15	**0.0277**	<0.002	<0.002	<0.003
MW-19	05/17/13	**0.0518**	<0.002	<0.002	<0.003
	11/19/13	**0.0265**	<0.002	<0.002	<0.003
	06/11/14	**0.0308**	0.0135	0.003	<0.003
	12/22/14	**0.0234**	<0.002	<0.002	<0.003
	06/02/15	**0.0173**	<0.002	<0.002	<0.003
	11/10/15	**0.0291**	<0.002	<0.002	<0.003
MW-20	05/17/13	<0.0008	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	12/22/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-21	05/16/13	0.000804	<0.002	<0.002	<0.003
	11/19/13	<0.0008	<0.002	<0.002	<0.003
	12/18/14	<0.0008	<0.002	<0.002	<0.003
	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
MW-22	LNAPL Present				
	12/22/14	**20.2**	**2.98**	**20.3**	**5.08**
	LNAPL Present				
MW-23	05/16/13	**0.01040**	<0.002	<0.002	<0.003
	11/20/13	0.00148	<0.002	<0.002	<0.003
	06/11/14	**0.01030**	<0.002	<0.002	<0.003
	12/19/14	0.00128	<0.002	<0.002	<0.003
	06/03/15	**0.01070**	<0.002	<0.002	<0.003
	11/11/15	0.00303	<0.002	<0.002	<0.003
MW-24	05/17/13	**0.0329**	<0.002	0.00298	<0.003
	11/20/13	**0.0527**	<0.002	0.00832	0.00534
	06/11/14	**0.0288**	<0.002	0.01	0.016
	12/14/14	**0.0111**	0.0438	<0.002	0.00764
	06/03/15	0.00128	0.00263	<0.002	<0.003
	11/11/15	0.000807	<0.002	<0.002	<0.003

Table 3
Summary of Groundwater BTEX Analyses
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
WQCC Human Health Standard:		**0.01**	**0.75**	**0.75**	**0.62**
MW-25	05/17/13	<0.0008	<0.002	<0.002	<0.003
	11/20/13	0.00116	<0.002	<0.002	<0.003
	12/19/14	<0.0008	<0.002	<0.002	<0.003
	06/03/15	0.00150	<0.002	<0.002	<0.002
	11/11/15	**0.0117**	<0.002	<0.002	<0.003
MW-26	12/22/14	**0.01**	0.0022	<0.002	0.0057
	06/03/15	0.00802	<0.002	<0.003	0.0055
	11/11/15	Insufficient Water for Sample Collection			
MW-27	LNAPL Present				
	12/19/2014	**4.36**	**1.85**	**6.28**	**2.51**
	LNAPL Present				
MW-28	05/16/13	**1.12**	<0.04	**0.38**	**0.33**
	11/20/13	**1.56**	<0.02	**1.13**	**1.34**
	06/11/14	**2.21**	<0.02	**1.57**	**1.80**
	12/22/14	**1.94**	**1.870**	<0.04	**1.62**
	06/03/15	**1.47**	**1.240**	<0.04	**0.61**
	11/11/15	**0.75**	**0.534**	<0.04	**0.28**
MW-29	LNAPL Present				
	06/02/15	Insufficient Water for Sample Collection			
	LNAPL Present				
MW-30	06/02/15	<0.0008	<0.002	<0.002	<0.003
	11/11/15	<0.0008	<0.002	<0.002	<0.003
MW-UN-01	LNAPL Present				
	12/19/14	<0.008	<0.02	<0.02	<0.03
	LNAPL Present				
MW-UN-02	05/16/13	**1.98**	0.27	<0.1	<0.150
	11/20/13	**5.56**	**2.97**	0.305	**0.336**
	06/11/14	**8.55**	**2.640**	0.3530	0.4700
	12/19/14	**6.77**	**0.543**	**0.9720**	**1.0900**
	05/11/15	No Longer Accessible			
RW-1	12/22/14	**16.20**	**3.070**	**19.2000**	**6.4000**
	LNAPL Present				
VW-1	12/22/14	**11.50**	**1.790**	**7.7100**	**2.5200**
	LNAPL Present				
VW-2	12/22/14	**13.80**	**2.240**	**12.1000**	**3.8800**
	LNAPL Present				
VW-3	12/22/14	**13.70**	**2.760**	**3.3000**	**4.9400**
	LNAPL Present				

Table 3
Summary of Groundwater BTEX Analyses
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
WQCC Human Health Standard:		**0.01**	**0.75**	**0.75**	**0.62**
VW-4	12/22/14	**11.20**	**1.710**	**9.1100**	**2.9900**
		LNAPL Present			
HVR-1	12/22/14	**9.76**	**2.800**	**7.1200**	**5.4900**
		LNAPL Present			
HV-1	12/22/14	**11.60**	**2.170**	**<0.2**	**2.5400**
		LNAPL Present			
HV-2	12/18/14	**6.93**	**1.930**	**2.4500**	**2.5800**
		LNAPL Present			
HV-3	12/18/14	0.0026	<0.002	<0.002	<0.003
	06/03/15	0.0028	<0.002	<0.002	<0.003
	11/10/15	0.0028	<0.002	<0.002	<0.003
HV-4	12/19/14	**6.52**	**1.910**	**8.7200**	**3.3200**
		LNAPL Present			
HV-5	12/19/14	**8.92**	**1.890**	**6.4500**	**3.0800**
		LNAPL Present			
HV-6	12/18/14	**0.03**	0.696	<0.04	0.2760
	06/03/15	**0.03**	0.546	<0.02	0.1200
	11/10/15	Insufficient Water for Sample Collection			
HV-7	12/19/14	**7.91**	**2.220**	**6.9300**	**3.6500**
		LNAPL Present			
HV-8	12/18/14	0.0024	<0.002	<0.002	<0.003
	06/03/15	<0.0008	<0.002	<0.002	<0.003
	11/10/15	<0.0008	<0.002	<0.002	<0.003
HV-9	12/22/14	DRY			
	06/03/15	DRY			
	11/10/15	Insufficient Water for Sample Collection			
QA/QC Sample Data					
E Rinse-1	05/17/13	<0.0008	0.00249	<0.002	<0.003

Notes:
< Denotes concentration below the method detection limit (MDL).
-- Denotes chemical not analyzed
LNAPL: Light non-aqueous phase liquid
Bold and highlighted denotes compound exceeds New Mexico Water Quality Control Commission (WQCC) standard.

Table 4
Summary of Dissolved Metals in Groundwater
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
WQCC Standard		**0.1**	**1.0**	**0.01**	**--**	**0.05**	**0.05**	**--**	**0.002**	**--**	**0.05**	**0.05**	**--**
MW-01	05/16/13	0.00581	0.0407	<0.0003	177	**0.110**	<0.0003	74	<0.00008	9.1	0.00332	<0.001	314
	11/19/13	0.0051	0.0458	<0.0003	201	**0.075**	<0.0003	70	<0.00008	9.0	0.00326	<0.001	309
	06/04/14	0.00455	0.0547	<0.0003	229	0.044	<0.0003	104	<0.00008	11.3	0.00237	<0.001	341
	12/17/14	0.00538	0.1130	<0.0003	323	0.035	0.000873	125	<0.00008	11.5	0.00286	<0.001	300
	06/02/15	0.00545	0.0728	<0.003	389	0.026	0.004040	121	<0.00008	11.1	0.00396	<0.001	290
	11/10/15	0.00505	0.0697	<0.0003	268	0.026	0.000937	115	<0.00008	10.4	0.00355	<0.001	298
MW-02	Well Replaced by MW-02A												
MW-02A	05/16/13	0.00552	0.079	<0.0003	209	<0.002	<0.0003	104	<0.00008	15.3	<0.002	<0.001	328
	11/21/13	0.00603	0.38	<0.0003	160	<0.002	<0.0003	86	<0.00008	12.7	<0.002	<0.001	337
	06/04/14	0.00781	0.0773	<0.0003	191	<0.002	<0.0003	97.7	<0.00008	15.3	<0.002	<0.001	326
	12/19/14	0.0213	0.499	<0.0003	145	0.00531	0.00176	86.6	<0.00008	12.8	<0.002	<0.001	357
	LNAPL Present												
MW-03	LNAPL Present												
	12/22/14	0.0768	**1.40**	<0.0003	379.0	<0.002	0.000706	224.0	<0.00008	32.30	<0.002	<0.001	705
	LNAPL Present												
MW-04	05/16/13	0.0124	0.0303	<0.0003	266.0	<0.002	<0.0003	110.0	<0.00008	10.3	0.0087	<0.001	750
	11/19/13	0.0132	0.0256	0.0009	271.0	<0.002	0.0004	96.6	<0.00008	11.9	0.0106	<0.001	601
	06/11/14	0.0107	0.0304	<0.0003	292.0	0.0021	<0.0003	107.0	<0.00008	11.0	0.0143	<0.001	798
	12/17/14	0.0235	0.0456	<0.0003	80.1	0.0237	0.0017	24.6	<0.00005	7.9	0.0772	<0.001	629
	06/03/15	0.0169	0.0454	0.0010	469.0	0.0074	0.0236	96.4	<0.00008	9.7	0.0546	<0.001	812
	11/10/15	0.015	0.0276	<0.0003	222.0	0.0165	0.0034	81.8	<0.00008	11.3	0.0423	<0.001	575
MW-05	05/16/13	0.0108	0.1230	<0.0003	149.0	<0.002	0.000441	51.7	<0.00008	11.8	0.00257	<0.001	299
	11/20/13	0.0091	0.1280	0.0004	139.0	<0.002	0.000735	43.5	<0.00008	14.6	0.00326	<0.001	231
	06/11/14	0.0118	0.1280	<0.0003	153.0	<0.002	<0.0003	49.4	<0.00008	12.2	<0.002	<0.001	226
	12/18/14	0.0313	0.2620	0.0003	145.0	0.01070	0.005050	49.8	0.00014	14.3	0.00269	<0.001	197
	06/02/15	0.0155	0.2800	0.0004	380.0	0.00736	0.012500	47.9	<0.00008	12.5	0.00319	<0.001	203
	11/10/15	0.0117	0.1880	<0.0003	148.0	0.00441	0.004550	49.6	<0.00008	10.9	<0.002	<0.001	214
MW-06	05/16/13	0.0321	0.3340	<0.0003	67.5	<0.002	<0.0003	40.0	<0.00008	5.49	<0.002	<0.001	452
	11/20/13	0.0213	0.2550	<0.0003	61.2	<0.002	<0.0003	32.0	<0.00008	4.99	0.0021	<0.001	392

Table 4
Summary of Dissolved Metals in Groundwater
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
WQCC Standard		0.1	1.0	0.01	--	0.05	0.05	--	0.002	--	0.05	0.05	--
	06/04/14	0.0222	0.3650	<0.0003	70.7	<0.002	<0.0003	48.2	<0.00008	6.92	<0.002	<0.001	471
	12/18/14	0.0561	0.1130	<0.0003	54.7	<0.002	<0.0003	32.1	<0.00008	6.88	<0.002	<0.001	487
	06/02/15	0.0245	**1.3000**	<0.0003	126.0	0.0053	<0.0003	66.7	<0.00008	5.86	<0.002	<0.001	458
	11/10/15	0.0518	**1.4700**	<0.0003	97.8	0.0143	<0.0003	81.4	<0.00008	5.74	<0.002	<0.001	493
MW-07	05/16/13	0.00963	0.0338	<0.0003	84.4	<0.002	<0.0003	28.8	<0.00008	6.75	0.00616	<0.001	195
	11/19/13	0.01100	0.0331	<0.0003	73.4	<0.002	<0.0003	23.6	<0.00008	6.04	0.00604	<0.001	158
	06/04/14	0.00982	0.0346	<0.0003	79.9	<0.002	<0.0003	32.1	<0.00008	7.33	0.00785	<0.001	228
	12/17/14	0.01020	0.0455	0.0004	92.3	<0.002	0.0003	31.9	<0.00008	7.02	0.00894	<0.001	247
	06/02/15	0.00900	0.0430	<0.0003	95.8	<0.002	0.0004	29.0	<0.00008	6.77	0.00964	<0.001	241
	11/10/15	0.01150	0.0434	<0.0003	171.0	<0.002	0.0013	32.2	<0.00008	6.57	0.00822	<0.001	219
MW-08	05/16/13	0.0152	0.0442	<0.0003	89.9	<0.002	<0.0003	37.8	<0.00008	7.47	0.00850	<0.001	376
	11/19/13	0.016	0.0509	<0.0003	88.8	<0.002	<0.0003	37.4	<0.00008	7.32	0.01050	<0.001	458
	06/04/14	0.0149	0.0467	<0.0003	90.8	<0.002	<0.0003	45.8	<0.00008	7.71	0.01280	<0.001	353
	12/17/14	0.0133	0.0750	0.0003	130.0	0.0035	0.0014	42.5	<0.00008	6.68	0.00954	<0.001	134
	06/02/15	0.0182	0.0639	<0.0003	166.0	<0.002	0.0039	50.6	<0.00008	8.44	0.01640	<0.001	378
	11/11/15	0.0158	0.0528	<0.0003	111.0	<0.002	0.0005	47.1	<0.00008	7.52	0.01610	<0.001	344
MW-09	05/16/13	0.00906	0.0557	<0.0003	79.6	<0.002	<0.0003	30.7	<0.00008	5.17	<0.002	<0.001	105
	11/19/13	0.00852	0.0577	<0.0003	88.4	<0.002	<0.0003	32.2	<0.00008	5.20	0.0026	<0.001	95
	06/04/14	0.00792	0.0694	<0.0003	98.2	<0.002	<0.0003	46.2	<0.00008	6.21	0.0022	<0.001	124
	12/17/14	0.00879	0.0907	<0.003	132.0	<0.002	0.0005	46.4	<0.00008	6.16	0.0022	<0.001	122
	06/02/15	0.01070	0.0986	<0.0003	241.0	<0.002	0.0046	44.2	<0.0008	6.05	0.0032	<0.001	113
	11/11/15	0.00908	0.0768	<0.0003	109.0	<0.002	<0.0003	43.2	<0.0008	5.71	<0.002	<0.001	111
MW-10	05/16/13	0.00835	0.155	<0.0003	197	<0.002	<0.0003	53.0	<0.00008	4.50	0.00415	<0.001	55.5
	11/19/13	0.00805	0.131	<0.0003	184	<0.002	<0.0003	43.1	<0.00008	4.48	0.00467	<0.001	47.8
	06/04/14	0.0077	0.111	<0.0003	167	<0.002	<0.0003	49.6	<0.00008	5.00	0.00382	<0.001	62.8
	12/17/14	0.00878	0.118	<0.003	165	<0.002	0.0005	44.3	<0.00008	4.87	0.00393	<0.001	61.9
	06/02/15	0.00821	0.144	0.0004	178	0.0062	0.0016	39.6	<0.00008	4.92	0.00448	<0.001	57.9
	11/11/15	0.00744	0.097	<0.0003	131	<0.002	<0.0003	35.6	<0.00008	4.08	0.00398	<0.001	49.8
MW-11	05/16/13	**0.1110**	0.540	<0.0003	51.1	<0.002	<0.0003	31.8	<0.00008	5.11	<0.002	<0.001	89.6

Table 4
Summary of Dissolved Metals in Groundwater
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
WQCC Standard		**0.1**	**1.0**	**0.01**	**--**	**0.05**	**0.05**	**--**	**0.002**	**--**	**0.05**	**0.05**	**--**
	11/19/13	0.040	0.384	<0.0003	46.7	<0.002	<0.0003	27.1	<0.00008	4.36	<0.002	<0.001	77.3
	12/17/14	0.026	0.703	<0.0003	133.0	0.0243	0.0087	37.0	<0.00008	7.52	<0.002	<0.001	79.9
	06/03/15	0.071	**1.310**	0.0009	248.0	0.0026	0.0120	30.6	<0.00008	6.22	0.0044	<0.001	79.1
	11/11/15	0.016	**1.560**	0.0006	472.0	0.0106	0.0060	47.5	<0.00008	6.64	0.0042	<0.001	92.7
MW-12	05/16/13	0.0113	0.0690	<0.0003	1,130	<0.002	<0.0003	565	<0.00008	20.7	0.0406	<0.001	1,780
	11/20/13	0.011	0.0681	<0.0003	1,170	<0.002	<0.0003	547	0.0000912	20.4	0.0446	<0.001	1,860
	12/18/14	0.0119	0.1440	<0.0003	1,120	0.0040	0.0020	707	<0.00008	25.0	0.0458	<0.001	2,050
	06/03/15	0.0139	0.0983	0.0004	1,160	<0.002	0.0018	673	<0.00008	21.5	0.0439	<0.001	2,160
	11/11/15	0.0128	0.0715	<0.0003	1,010	<0.002	0.0011	669	<0.00008	20.5	0.0452	<0.001	2,140
MW-13	05/16/13	0.00852	0.068	<0.0003	1,430	<0.002	<0.0003	517	<0.00008	27.3	0.0123	<0.001	2,310
	11/20/13	0.0083	0.068	0.0054	1,430	<0.002	<0.0003	443	<0.00008	28.9	0.0128	<0.001	2,690
	12/17/14	0.0103	0.157	<0.0003	2,020	0.0071	0.0020	703	<0.00008	25.1	0.0232	<0.001	1,100
	06/03/15	0.00884	0.096	<0.0003	1,970	<0.002	0.0051	681	<0.00008	25.3	0.0201	<0.001	1,180
	11/10/15	0.00859	0.075	<0.0003	1,420	<0.002	0.0005	556	<0.00008	26.8	0.0152	<0.001	1,690
MW-14	05/16/13	0.0464	0.202	<0.003	592	<0.02	<0.003	375	<0.00008	169	<0.02	<0.01	19,600
	11/19/13	0.0576	0.321	<0.003	578	<0.02	<0.003	314	<0.00008	77	<0.02	<0.01	11,300
	06/11/14	0.0376	0.183	<0.003	930	<0.02	<0.003	512	<0.00008	200	<0.02	<0.01	23,400
	12/17/14	0.0549	0.948	<0.003	1,380	**0.0764**	0.029500	694	<0.00008	180	<0.02	<0.01	20,400
	06/02/15	0.044	0.265	<0.003	455	<0.02	<0.003	301	<0.00008	119	<0.02	<0.01	13,100
	11/10/15	0.0456	0.264	<0.0003	446	0.0109	0.002180	304	<0.00008	116	0.0026	<0.001	13,800
MW-15	05/16/13	0.0108	0.0292	<0.0003	151	<0.002	<0.0003	73.6	<0.00008	14.9	<0.002	<0.001	624
	11/20/13	0.0107	0.0273	0.0003	132	<0.002	<0.0003	52.2	<0.00008	11.4	<0.002	<0.001	533
	06/11/14	0.0117	0.0290	<0.0003	122	<0.002	0.0004	55.9	<0.00008	11.3	0.00224	<0.001	619
	12/18/14	0.0137	0.1260	<0.0003	90	0.0040	0.0008	45.2	<0.00008	10.1	0.00238	<0.001	523
	06/02/15	0.0127	0.0371	<0.0003	119	<0.00320	0.0016	41.2	<0.00008	10.1	0.00222	<0.001	486
	11/10/15	0.0117	0.0297	<0.0003	79	<0.002	0.0011	41.9	<0.00008	9.6	<0.002	<0.001	505
MW-16	05/16/13	0.0055	0.095	<0.0003	142.0	<0.002	<0.0003	50.1	<0.00008	7.63	<0.002	<0.001	194
	11/20/13	0.00542	0.085	<0.0003	124.0	<0.002	<0.0003	43.8	<0.00008	6.53	0.0031	<0.001	155
	06/04/14	0.00548	0.089	<0.0003	124.0	<0.002	<0.0003	50.6	<0.00008	8.10	0.0038	<0.001	187

Table 4
Summary of Dissolved Metals in Groundwater
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
WQCC Standard		**0.1**	**1.0**	**0.01**	**--**	**0.05**	**0.05**	**--**	**0.002**	**--**	**0.05**	**0.05**	**--**
	12/17/14	0.0073	0.287	0.000343	183.0	0.0151	0.0145	61.6	0.0000937	10.60	0.0061	<0.001	204
	06/02/15	0.00544	0.092	<0.0003	137.0	0.0022	0.0006	48.8	<0.00008	7.64	0.0068	<0.001	184
	11/10/15	0.00577	0.084	0.001560	117.0	<0.002	0.0006	48.4	<0.00008	7.06	0.0070	<0.001	186
MW-17	Well Plugged												
MW-18	05/17/13	0.00797	0.124	0.001200	1,120	<0.002	<0.0003	502	<0.00008	24.3	0.00287	<0.001	2,870
	11/19/13	0.00795	0.110	0.000037	976	<0.002	0.000775	380	<0.00008	23.2	0.00661	<0.001	2,620
	06/11/14	0.00838	0.142	<0.0003	1,530	<0.002	0.000460	624	<0.00008	30.2	0.00265	<0.001	3,740
	12/19/14	0.00878	0.142	<0.0003	1,400	<0.002	0.000404	679	<0.00008	<50.0	0.00324	<0.001	3,460
	06/02/15	0.00829	0.156	<0.0003	1,360	0.00329	0.001390	651	<0.00008	31.4	0.00482	<0.001	4,110
	11/11/15	0.00909	0.175	<0.0003	1,620	<0.002	0.001160	761	<0.00008	35.5	0.00248	<0.001	5,000
MW-19	05/17/13	0.0123	0.0827	0.000600	1,440	<0.002	<0.0003	695	0.000155	42.4	0.00643	<0.001	6,370
	11/19/13	<0.02	0.0757	<0.003	1,320	<0.02	<0.003	589	0.0000855	44.3	<0.02	<0.01	6,800
	06/11/14	0.0124	0.0785	0.000345	1,440	<0.002	<0.0003	686	<0.00008	58.4	0.00632	<0.001	7,200
	12/22/14	0.013	0.0753	<0.0003	1,300	<0.002	0.000430	6,664	0.000105	47.0	0.00756	<0.001	6,970
	06/02/15	<0.02	0.0630	<0.003	1,040	<0.02	<0.003	514	0.000157	41.2	<0.02	<0.01	6,060
	11/10/15	0.0132	0.0725	0.006030	1,010	0.00215	0.003570	561	0.000262	37.7	0.00983	<0.001	5,830
MW-20	05/17/13	0.0460	0.0246	<0.0003	46.4	0.00735	<0.0003	26.5	<0.00008	50.2	0.01990	<0.001	2,700
	11/19/13	0.0479	<0.03	<0.003	56.4	<0.02	<0.003	25.0	<0.00008	51.1	0.02390	<0.01	2,600
	12/14/14	0.0487	0.0300	<0.0003	52.7	0.00841	<0.0003	29.0	<0.00008	53.1	0.01890	<0.001	2,670
	06/02/15	0.0475	<0.03	<0.003	51.7	<0.02	<0.003	51.7	<0.00008	46.4	<0.02	<0.01	2,520
	11/10/15	0.0468	0.0248	<0.0003	54.2	0.00784	0.000561	25.7	<0.00008	46.2	0.01600	<0.001	2,480
MW-21	05/16/13	0.01060	0.2060	<0.0003	343	<0.002	<0.0003	191	<0.00008	67.5	0.0102	<0.001	3,590
	11/19/13	<0.02	0.2030	<0.003	343	<0.02	<0.003	161	<0.0004	67.7	0.0209	<0.01	3,820
	12/18/14	0.01750	**1.0900**	<0.0003	607	0.01770	0.0085	283	<0.00008	96.3	0.0276	<0.001	5,420
	06/02/15	0.01570	0.1160	<0.0003	449	0.00420	0.0021	100	<0.00008	51.9	0.0261	<0.001	2,630
	11/10/15	0.01510	0.1280	<0.0003	250	0.00516	0.0013	143	<0.00008	51.4	0.0381	<0.001	3,120
MW-22	LNAPL Present												
	12/22/14	**0.169**	**1.73**	0.000304	603	0.0126	0.00497	256	0.000917	6.78	0.00355	<0.001	233
	LNAPL Present												

Table 4
Summary of Dissolved Metals in Groundwater
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
WQCC Standard		0.1	1.0	0.01	--	0.05	0.05	--	0.002	--	0.05	0.05	--
MW-23	05/16/13	0.0217	0.0852	<0.0003	39.5	<0.002	<0.0003	46.0	<0.00008	9.7	0.00379	<0.001	2,070
	11/20/13	0.0334	0.0590	<0.0003	75.8	<0.002	0.0004	54.8	<0.00008	12.3	0.00369	<0.001	1,530
	06/11/14	0.0352	0.0603	<0.0003	68.8	<0.002	<0.0003	56.0	<0.00008	12.4	0.00315	<0.001	1,690
	12/19/14	0.0260	0.5190	0	223.0	0.02150	0.0079	126.0	<0.00008	15.5	0.00594	<0.001	1,160
	06/03/15	0.0184	0.0470	<0.0003	228.0	0.00267	0.0021	102.0	<0.00008	15.2	0.00492	<0.001	970
	11/11/15	0.0361	0.0790	<0.0003	488.0	0.00388	0.0003	101.0	<0.00008	14.6	0.00515	<0.001	902
MW-24	05/17/13	0.0437	0.0344	<0.0003	200	<0.002	<0.0003	143	<0.00008	5.90	<0.002	<0.001	341
	11/20/13	0.0236	0.0385	0.0003	194	<0.002	<0.0003	134	<0.00008	6.56	<0.002	<0.001	314
	06/11/14	0.0262	0.0441	<0.0003	210	<0.002	<0.0003	150	<0.00008	7.46	<0.002	<0.001	360
	12/22/14	0.0389	0.0868	<0.0003	208	<0.002	0.0009	153	<0.00008	6.48	<0.002	<0.001	348
	06/03/15	0.0348	0.0644	<0.0003	181	<0.002	<0.0003	143	<0.0008	5.52	<0.002	<0.001	327
	11/11/15	0.0427	0.0541	0.0003	276	0.00547	0.0022	131	<0.0008	7.80	<0.002	<0.001	335
MW-25	05/17/13	0.01330	0.1830	<0.0003	133	<0.002	<0.0003	78.2	<0.00008	4.6	<0.002	<0.0003	169
	11/20/13	0.01370	0.4680	<0.0003	122	<0.002	<0.0003	65.6	<0.00008	4.1	<0.002	<0.001	114
	12/19/14	0.03750	**1.6900**	0.0007	608	0.02610	0.0165	90.6	0.0000114	9.0	0.00259	<0.001	102
	06/03/15	0.02150	**1.1000**	0.0019	320	0.00702	0.0056	81.9	<0.00008	4.8	<0.002	<0.001	114
	11/11/15	0.02550	0.9110	<0.0003	203	<0.002	0.0019	70.6	4.22	4.2	<0.002	<0.001	133
MW-26	12/22/14	0.0338	**1.010**	0.0004	694	0.00348	0.003820	68.9	<0.00008	6.68	0.00214	<0.001	222
	06/03/15	0.0355	**1.050**	<0.0003	647	<0.002	0.001540	63.8	<0.00008	5.26	<0.002	<0.001	205
	11/11/15	Insufficient Water For Sample											
MW-27		LNAPL Present											
	12/19/14	0.0334	0.44	<0.0003	221	0.00849	0.00699	111	<0.00008	22.3	<0.002	<0.001	344
		LNAPL Present											
MW-28	05/16/13	0.071	**5.44**	<0.0003	61	<0.002	<0.0003	111.0	<0.00008	4.96	<0.002	<0.001	329
	11/20/13	0.052	**4.86**	<0.0003	74	<0.002	<0.0003	105.0	<0.00008	8.26	<0.002	<0.001	414
	06/11/14	0.086	**5.320**	<0.0003	59	<0.002	<0.0003	107.0	<0.00008	6.07	<0.002	<0.001	444
	12/22/14	**0.245**	**6.950**	0.0008	113	<0.002	0.001220	99.0	<0.00008	3.30	<0.002	<0.001	185
	06/03/15	**0.160**	**6.140**	0.0004	291	0.00732	0.002080	89.3	<0.00008	4.56	<0.002	<0.001	242

Table 4
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Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
WQCC Standard		**0.1**	**1.0**	**0.01**	**--**	**0.05**	**0.05**	**--**	**0.002**	**--**	**0.05**	**0.05**	**--**
	11/11/15	**0.101**	**6.390**	<0.0003	1,010	0.00748	0.002310	114.0	<0.00008	7.70	<0.002	<0.001	391
MW-29	LNAPL Present												
	06/02/15	Insufficient Water For Sample											
	LNAPL Present												
MW-30	06/02/15	0.0185	0.0426	<0.003	686	0.00928	0.00238	330	<0.00008	<50	0.0256	<0.001	2,240
	11/11/15	0.0237	0.0451	<0.0003	664	0.0127	0.00268	327	<0.00008	28.8	0.0279	<0.001	2,180
MW-UN-01	LNAPL Present												
	12/19/14	0.03380	**2.30**	<0.001	849	0.04490	0.0381	172	<0.00008	21.4	<0.01	<0.005	422
	LNAPL Present												
MW-UN-02	05/16/13	0.0095	0.218	<0.0003	141	<0.002	<0.0003	64.3	<0.00008	9.31	<0.002	<0.001	280
	11/01/13	0.0095	0.160	<0.0003	132	<0.002	<0.003	54.2	<0.00008	7.60	<0.002	<0.001	218
	06/11/14	0.0189	0.256	<0.0003	144	<0.002	<0.0003	65.2	<0.00008	9.56	<0.002	<0.001	298
	12/19/14	0.0776	0.546	<0.0003	159	0.00305	0.003540	65.3	<0.00008	7.12	<0.002	<0.001	283
	05/11/15	No Longer Accessible											
RW-1	12/22/14	**0.2330**	**1.750**	<0.0003	213	<0.002	0.003910	98.9	<0.00008	3.30	<0.002	<0.001	79
	LNAPL Present												
VW-1	12/22/14	0.0642	0.514	<0.0003	370	0.00659	0.002900	81.3	<0.00008	9.16	0.00206	<0.001	298
	LNAPL Present												
VW-2	12/22/14	0.1360	1.950	<0.0003	85	<0.002	0.000928	192.0	<0.00008	3.99	0.00361	<0.001	345
	LNAPL Present												
VW-3	12/22/14	0.1110	**3.420**	<0.0003	175	<0.002	0.000471	137.0	<0.00008	5.57	<0.002	<0.001	206
	LNAPL Present												
VW-4	12/22/14	0.0426	0.727	<0.0003	123	<0.002	0.000473	104.0	<0.00008	12.40	<0.002	<0.001	371
	LNAPL Present												

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Eunice, Lea County, New Mexico

Well ID	Date	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
WQCC Standard		**0.1**	**1.0**	**0.01**	**--**	**0.05**	**0.05**	**--**	**0.002**	**--**	**0.05**	**0.05**	**--**
HVR-1	12/22/14	0.1350	**6.910**	<0.0003	110	<0.002	<0.0003	150.0	<0.0008	8.70	<0.002	<0.001	264
	LNAPL Present												
HV-1	12/22/14	0.0311	**10.300**	<0.0003	202	<0.002	<0.0003	238.0	<0.00008	23.30	<0.002	<0.001	438
	LNAPL Present												
HV-2	12/18/14	<0.01	0.604	<0.001	520	<0.01	<0.005	310.0	<0.00008	33.50	<0.01	0.005	531
	LNAPL Present												
HV-3	12/18/14	0.0164	0.082	<0.0003	1,150	<0.002	0.000080	612.0	<0.00008	<50.0	0.00585	<0.001	2,520
	06/03/15	0.0134	0.060	<0.0015	1,060	<0.01	<0.0015	561.0	<0.00008	45.20	<0.01	<0.005	2,290
	11/10/15	0.0146	0.060	<0.0003	1,010	<0.002	0.000502	543.0	<0.00008	46.20	0.00364	<0.001	2,300
HV-4	12/19/14	0.0422	0.708	<0.0003	137	0.00328	0.001090	96.2	<0.00008	14.50	<0.002	<0.001	277
	LNAPL Present												
HV-5	12/19/14	0.0133	0.656	<0.0003	338	<0.002	<0.0003	170.0	<0.00008	22.90	<0.002	<0.003	471
	LNAPL Present												
HV-6	12/18/14	0.0056	0.814	<0.0003	420	<0.002	<0.0003	235.0	<0.00008	26.70	<0.002	0.001	414
	06/03/15	0.0048	0.898	<0.0003	409	<0.002	<0.0003	234.0	<0.00008	25.80	<0.002	<0.001	452
	11/10/15	Insufficient Water for Sample											
HV-7	12/19/14	0.0158	0.976	<0.001	280	<0.01	0.001730	138.0	0.000155	23.10	<0.01	<0.005	284
	LNAPL Present												
HV-8	12/18/14	0.0146	0.079	<0.0003	373	<0.002	0.000415	180.0	<0.00008	20.60	<0.002	<0.001	965
	06/03/15	0.0171	0.097	0.000326	420	<0.002	<0.0003	181.0	<0.00008	19.70	<0.002	<0.001	1,030
	11/10/15	0.0230	0.124	<0.0003	458	<0.002	0.001140	219.0	<0.00008	21.80	<0.002	<0.001	1,120
HV-9	12/22/14	DRY											
	06/02/15	DRY											
	11/11/15	Insufficient Water for Sample											

Table 4
Summary of Dissolved Metals in Groundwater
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
WQCC Standard		**0.1**	**1.0**	**0.01**	**--**	**0.05**	**0.05**	**--**	**0.002**	**--**	**0.05**	**0.05**	**--**
QA/QC Sample Data													
E Rinse-1	05/17/13	<0.002	<0.003	<0.0003	0	<0.002	<0.0003	<0.1	<0.00008	<0.1	<0.002	<0.001	0.387

Notes:

Analysis reported in milligrams per liter (mg/L) equivalent to parts per million (ppm)

< Indicates concentration below the method detection limit (MDL).

"--" Indicates the chemical was not analyzed.

Bold and highlighted indicates chemical exceeds the New Mexico Water Quality Control Commission (WQCC) standard.

Table 5
Water Quality Parameters
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Alkalinity	Chloride	Sulfate	TDS
WQCC Standard		**--**	**250**	**600**	**1,000**
MW-01	05/16/13	498	**408**	313	**1,670**
	11/19/13	434	**747**	304	**2,020**
	06/04/14	403	**721**	343	**1,960**
	12/17/14	361	**885**	350	**2,600**
	06/02/15	379	**839**	359	**2,630**
	11/10/15	372	**863**	361	**2,600**
MW-02	Well Replaced by MW-02A				
MW-02A	05/16/13	482	**428**	510	**1,940**
	11/21/13	654	**385**	346	**1,960**
	06/04/14	583	**420**	447	**1,610**
	12/19/14	809	**384**	110	**1,720**
	LNAPL Present				
MW-03	LNAPL Present				
	12/22/14	512	**1,990**	2	**4,370**
	LNAPL Present				
MW-04	05/16/13	529	**510**	**1,480**	**3,300**
	11/19/13	502	**523**	**1,430**	**3,570**
	06/11/14	522	**404**	**1,460**	**2,900**
	12/17/14	570	**255**	**700**	**2,630**
	06/03/15	611	**440**	**1,650**	**3,710**
	11/10/15	563	**416**	**1,490**	**3,340**
MW-05	05/16/13	600	215	297	**1,460**
	11/20/13	534	226	348	**1,590**
	06/11/14	582	145	229	**1,200**
	12/18/14	601	153	148	**1,160**
	06/02/15	621	187	151	**1,100**
	11/11/15	630	212	141	**1,290**
MW-06	05/16/13	638	**434**	77	**1,400**
	11/20/13	543	**453**	160	**1,610**
	06/04/14	543	**577**	46	**1,640**
	12/18/14	555	**417**	33	**1,770**
	06/02/15	476	**872**	30	**2,090**
	11/11/15	459	**862**	26	**1,950**
MW-07	05/16/13	369	122	172	925
	11/19/13	375	133	170	919
	06/04/14	375	120	214	915
	12/17/14	346	159	204	**1,410**
	06/02/15	329	163	298	**1,190**
	11/10/15	332	117	226	**1,030**
MW-08	05/16/13	202	**608**	162	**1,410**
	11/19/13	195	**807**	211	**2,050**
	06/04/14	204	**552**	255	**1,440**
	12/17/14	199	236	178	**1,150**
	06/02/15	192	**592**	319	**1,570**

Table 5
Water Quality Parameters
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Alkalinity	Chloride	Sulfate	TDS
WQCC Standard		**--**	**250**	**600**	**1,000**
	11/11/15	206	**490**	307	**1,680**
MW-09	05/16/13	271	152	68	644
	11/19/13	255	234	73	870
	06/04/14	243	**255**	83	779
	12/17/14	233	**298**	73	**1,420**
	06/02/15	235	**287**	80	863
	11/11/15	228	**271**	72	993
MW-10	05/16/13	160	**398**	105	**1,280**
	11/19/13	165	**382**	108	**1,280**
	06/04/14	179	**336**	130	905
	12/17/14	179	**267**	108	**1,400**
	06/02/15	182	**257**	118	**1,020**
	11/11/15	185	214	104	**1,030**
MW-11	05/16/13	353	46.1	15	455
	11/19/13	341	46.6	19	520
	06/04/14	N/S	N/S	N/S	N/S
	12/17/14	258	63.8	2	449
	06/03/15	278	71.6	4	441
	11/11/15	324	89.5	14	601
MW-12	05/16/13	189	**5,940**	**1,230**	**11,400**
	11/20/13	187	**7,180**	**1,350**	**14,300**
	06/04/14	N/S	N/S	N/S	N/S
	12/18/14	183	**6,800**	**1,280**	**14,500**
	06/03/15	190	**6,920**	**1,340**	**15,700**
	11/11/15	192	**6,190**	**1,230**	**17,700**
MW-13	05/16/13	253	**8,100**	**1,100**	**15,800**
	11/20/13	289	**8,370**	**1,210**	**17,500**
	06/04/14	N/S	N/S	N/S	N/S
	12/17/14	208	**6,280**	**1,340**	**14,100**
	06/03/15	206	**6,520**	**1,370**	**14,300**
	11/10/15	229	**6,810**	**1,350**	**18,300**
MW-14	05/16/13	671	**35,600**	**974**	**54,300**
	11/19/13	660	**38,300**	**960**	**65,700**
	06/11/14	602	**20,600**	597	**43,900**
	12/17/14	687	**34,900**	**1,080**	**92,500**
	06/02/15	675	**24,500**	**645**	**37,700**
	11/10/15	718	**24,500**	**611**	**42,200**
MW-15	05/16/13	559	**656**	495	**2,390**
	11/20/13	585	**611**	471	**2,090**
	06/11/14	634	**945**	421	**2,880**
	12/18/14	605	**396**	294	**2,130**
	06/02/15	657	**391**	305	**1,720**
	11/11/15	654	**396**	278	**1,700**

Table 5
Water Quality Parameters
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Alkalinity	Chloride	Sulfate	TDS
WQCC Standard		**--**	**250**	**600**	**1,000**
MW-16	05/16/13	421	208	232	**1,120**
	11/20/13	418	218	214	**1,250**
	06/04/14	430	191	237	**1,000**
	12/17/14	392	233	212	**1,590**
	06/02/15	361	244	267	**1,490**
	11/11/15	370	223	250	**1,250**
MW-17	Well Plugged				
MW-18	05/17/13	421	**8,940**	554	**16,100**
	11/19/13	425	**8,330**	534	**18,000**
	06/11/14	418	**7,200**	546	**16,100**
	12/19/14	373	**10,700**	**601**	**22,300**
	06/02/15	429	**11,200**	564	**22,800**
	11/11/15	427	**11,600**	583	**37,100**
MW-19	05/17/13	342	**18,600**	**974**	**27,100**
	11/19/13	348	**16,600**	**989**	**46,400**
	06/11/14	370	**11,600**	**938**	**28,200**
	12/22/14	364	**14,300**	**969**	**32,800**
	06/02/15	398	**13,300**	**983**	**25,000**
	11/10/15	375	**13,000**	**889**	**25,000**
MW-20	05/17/13	558	**3,270**	**917**	**6,750**
	11/19/13	545	**3,400**	**873**	**6,860**
	06/04/14	N/S	N/S	N/S	N/S
	12/22/14	555	**3,270**	**750**	**9,060**
	06/02/15	560	**3,180**	**753**	**6,620**
	11/10/15	561	**3,090**	**671**	**7,140**
MW-21	05/16/13	639	**7,000**	292	**10,500**
	11/19/13	582	**7,370**	329	**11,800**
	06/04/14	N/S	N/S	N/S	N/S
	12/18/14	512	**12,200**	566	**27,700**
	06/02/15	519	**4,620**	342	**8,200**
	11/10/15	556	**4,980**	**835**	**10,600**
MW-22	LNAPL Present				
	12/22/14	1,300	146	337	**2,710**
	LNAPL Present				
MW-23	05/16/13	1,630	**1,540**	**1,170**	**5,480**
	11/20/13	1,130	**1,360**	**1,090**	**4,820**
	06/11/14	1,420	**792**	**1,320**	**4,530**
	12/19/14	1,120	**399**	**1,620**	**4,070**
	06/03/15	1,660	**344**	556	**3,410**
	11/11/15	1,000	**555**	**868**	**3,430**
MW-24	05/16/13	547	**368**	**815**	**2,370**
	11/20/13	556	**423**	**656**	**2,120**
	06/11/14	621	**407**	439	**1,720**
	12/22/14	655	**480**	288	**1,970**

Table 5
Water Quality Parameters
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Alkalinity	Chloride	Sulfate	TDS
WQCC Standard		**--**	**250**	**600**	**1,000**
	06/03/15	660	**552**	382	**2,100**
	11/11/15	610	**453**	497	**2,530**
MW-25	05/17/13	708	134	101	**1,020**
	11/20/13	741	93.7	16	905
	06/04/14	N/S	N/S	N/S	N/S
	12/19/14	686	90	10	**1,050**
	06/03/15	736	122	32	935
	11/11/15	726	98	32	**1,260**
MW-26	05/17/13	N/S	N/S	N/S	N/S
	11/20/13	N/S	N/S	N/S	N/S
	06/04/14	N/S	N/S	N/S	N/S
	12/22/14	706	153	7	**1,140**
	06/03/15	748	134	6	950
	11/11/15	Insufficient Water for Sample Collection			
MW-27	LNAPL Present				
	12/19/14	741	**592**	75	**2,060**
	LNAPL Present				
MW-28	05/16/13	682	**625**	8	**1,360**
	11/20/13	656	**769**	18	**1,910**
	06/11/14	690	**659**	9	**2,050**
	12/22/14	736	143	<1.0	**1,120**
	06/03/15	754	178	7	**1,030**
	11/11/15	689	**506**	24	**1,730**
MW-29	LNAPL Present				
	06/02/15	Insufficient Water for Sample Collection			
	LNAPL Present				
MW-30	06/02/15	192	**4,980**	**981**	**11,000**
	11/11/15	964	**4,570**	**964**	**12,000**
MW-UN-01	LNAPL Present				
	12/19/14	590	**1,150**	11	**3,060**
	LNAPL Present				
MW-UN-02	05/16/13	679	**396**	83	**1,430**
	11/20/13	708	**337**	36	**1,450**
	06/11/14	706	**372**	35	**1,610**
	12/19/14	749	**279**	5	**1,420**
	No Longer Accessible				
RW-1	12/22/14	820	102	14	**1,170**
	LNAPL Present				
VW-1	12/22/14	915	133	<1.0	**1,480**
	LNAPL Present				
VW-2	12/22/14	1090	**264**	<1.0	**1,950**

Table 5
Water Quality Parameters
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Alkalinity	Chloride	Sulfate	TDS
WQCC Standard		**--**	**250**	**600**	**1,000**
	LNAPL Present				
VW-3	12/22/14	1120	**180**	<1.0	**1,710**
	LNAPL Present				
VW-4	12/22/14	789	**336**	196	**1,820**
	LNAPL Present				
HVR-1	12/22/14	855	**366**	<1.0	**1,800**
	LNAPL Present				
HV-1	12/22/14	851	**1,130**	<1.0	**3,140**
	LNAPL Present				
HV-2	12/18/14	558	**2,410**	11	**5,090**
	LNAPL Present				
HV-3	12/22/14	277	**7,430**	**1,130**	**17,000**
	06/03/15	280	**6,630**	**1,130**	**15,100**
	11/10/15	278	**7,060**	**1,090**	**16,800**
HV-4	12/19/14	743	**389**	1	**1,810**
	LNAPL Present				
HV-5	12/19/14	576	**1,580**	<1.0	**3,580**
	LNAPL Present				
HV-6	12/18/14	417	**1,890**	**4,387**	**4,100**
	06/03/15	438	**1,880**	8	**4,970**
	11/11/15	Insufficient Water for Sample Collection			
HV-7	12/19/14	358	**1,070**	<1.0	**2,550**
	LNAPL Present				
HV-8	12/18/14	429	**2,130**	394	**5,240**
	06/03/15	480	**2,360**	345	**6,370**
	11/10/15	510	**2,920**	311	**6,400**
HV-9	12/22/14	DRY			
	06/03/15	DRY			
	11/11/15	Insufficient Water for Sample Collection			

Table 5
Water Quality Parameters
Targa Midstream Services, LP - Eunice Middle Gas Plant
Eunice, Lea County, New Mexico

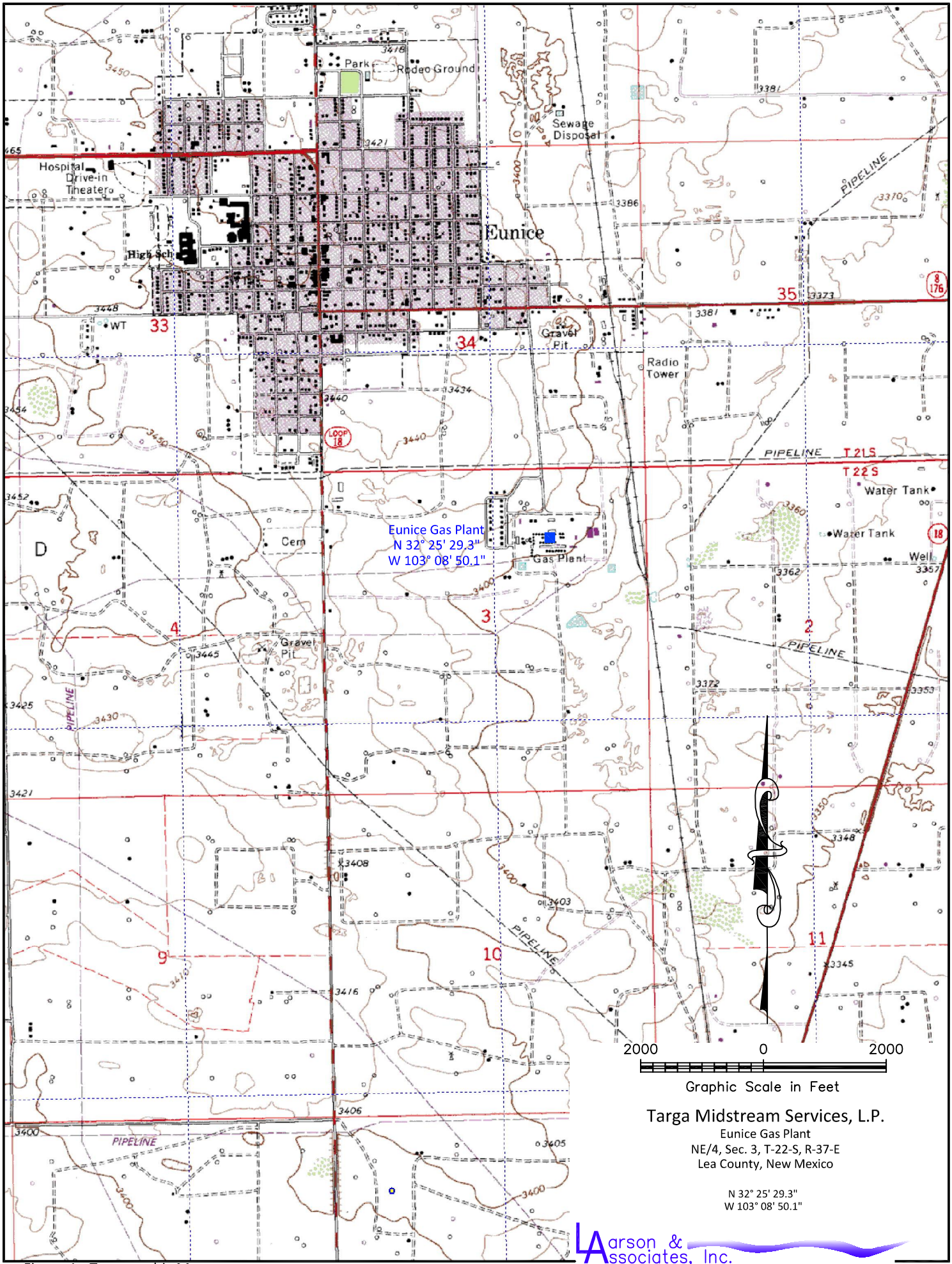
Well ID	Date	Alkalinity	Chloride	Sulfate	TDS
WQCC Standard		**--**	**250**	**600**	**1,000**
QA/QC Sample Data					
E Rinse-1	05/17/13	<10.0	1	<1.0	<10.0

Notes:
All results reported in milligrams per liter (mg/L) equivalent to parts per million (ppm)
<: Denote analyte below method detection limit (MDL) concentration
<: Analyte not analyzed
N/S - Not Sampled
LNAPL: Light non-aqueous phase liquid

Bold and highlighted indicates compound exceeds New Mexico Water Quality Control Commission (WQCC) standard

FIGURES

JWW



Targa Midstream Services, L.P.
Eunice Gas Plant
NE/4, Sec. 3, T-22-S, R-37-E
Lea County, New Mexico

N 32° 25' 29.3"
W 103° 08' 50.1"

Larson & Associates, Inc.
Environmental Consultants

Figure 1 - Topographic Map

Figure 2 - Aerial

Legend

MW-20 - Monitoring Well Location

VW-1 - Recovery Well Location

HV-3 - High Vacuum Extraction Well Location

MW-17 - Plugged Well

375 0 375

Graphic Scale in Feet

Targa Midstream Services, LLC

Eunice Gas Plant

NE/4, Sec. 3, T-22-S, R-37-E

Lea County, New Mexico

N 32° 25' 29.3"

W 103° 08' 50.1"

Larson & Associates, Inc.

Environmental Consultants

Figure 3 - Site Map

11" x 17"

MW-8
3,369.70

MW-9
3,369.82

MW-10
3,369.70

MW-11
3,367.89

MW-12
3,368.18

Valve NNG
192-B

Residential

Residential

Residential

Residential

Chevron
Mark #002H

Chevron
Mark #008

Chevron
Mark #001

Chevron
Mark #011

John Hendrix
Paddock #009

Chevron
Mark #005

MW-1
3,368.35

MW-7
3,367.65

Eunice Plant

MW-2A
3,362.20

MW-24
3,370.17

MW-25
3,369.20

VW-1
3,371.25

VW-4
3,370.04

RW-1
3,370.83

VW-3
3,371.59

VW-2
3,371.75

MW-22
3,370.27

HVR-1

MW-27
3,370.82

HV-4

HV-7

MW-29
3,364.75

HV-9

HV-2

HV-5

HV-1

HV-3

HV-6

HV-8

MW-26
3,368.74

3,370.00

MW-3
3,368.61

MW-28
3,369.96

3,368.00

MW-23
3,367.81

MW-17

MW-13
3,358.76

Chevron
Mark #010

MW-6
3,364.39

MW-16
3,363.66

MW-5
3,365.92

MW-UN-2
N/D

3,366.00

MW-4
3,364.80

3,364.00

Chevron
Mark #013

P&A Well Mark
LPG #2

Chevron
Mark #003H

Chevron
Mark #007

Chevron
Mark #004

MW-UN-1
N/D

3,362.00

Chevron
Mark #009

3,360.00

Chevron
Mark #012

SWD-1

Targa
Eunice Plant 161 #001

3,358.00

3,356.00

P&A Well Mark
LPC #1

3,354.00

MW-15
3,358.64

MW-21
3,353.68

MW-14
3,350.89

3,352.00

MW-18
3,346.38

3,350.00

3,348.00

3,346.00

3,344.00

3,342.00

3,340.00

3,338.00

3,336.00

3,334.00

3,332.00

MW-20
3,351.75

John Hendrix
Brunson C #004

OXY USA
Brunson C #009

OXY USA
Brunson C #012

John Hendrix
Brunson C #006

MW-19

P&A Well Paddock
Unit #27

XTO
NM State #029

John Hendrix
Paddock #028

Apache
NM S State #053

Apache
NM S State #054

MW-30
3,330.99

Apache
NM State #058

XTO
NM State #039

Apache
NM State #046

John Hendrix
Paddock Unit #010

Apache
NM State #042

Apache
NM State #047

John Hendrix
Paddock Unit #017

XTO
NM State #038

Apache
NM State #050

Apache
NM State #043

Legend

MW-20
3,351.75
- Monitoring Well Location and Groundwater Potentiometric Surface Elevation, Feet ASML, May 11,2015

MW-22
3,370.27
- Groundwater Elevation Corrected for LNAPL Assuming 0.7 Surface Gravity

VW-1
- Recovery Well Location and Groundwater Surface Elevation, Feet ASML, May 11, 2015

HV-3
- High Vacuum Extraction Well Location

MW-17
- Plugged Well

3,500.00
- Contour of Groundwater Potentiometric Surface Elevation, Feet ASML, May 11,2015 (Dashed where inferred)

- Groundwater Flow Direction

N/D
- No well data available

375 0 375

Graphic Scale in Feet

Targa Midstream Services, LLC
Eunice Gas Plant
NE/4, Sec. 3, T-22-S, R-37-E
Lea County, New Mexico

N 32° 25' 29.3"
W 103° 08' 50.1"

Larson & Associates, Inc.
Environmental Consultants

Figure 4a - Groundwater Potentiometric Surface Map, May 11, 2015

11" x 17"

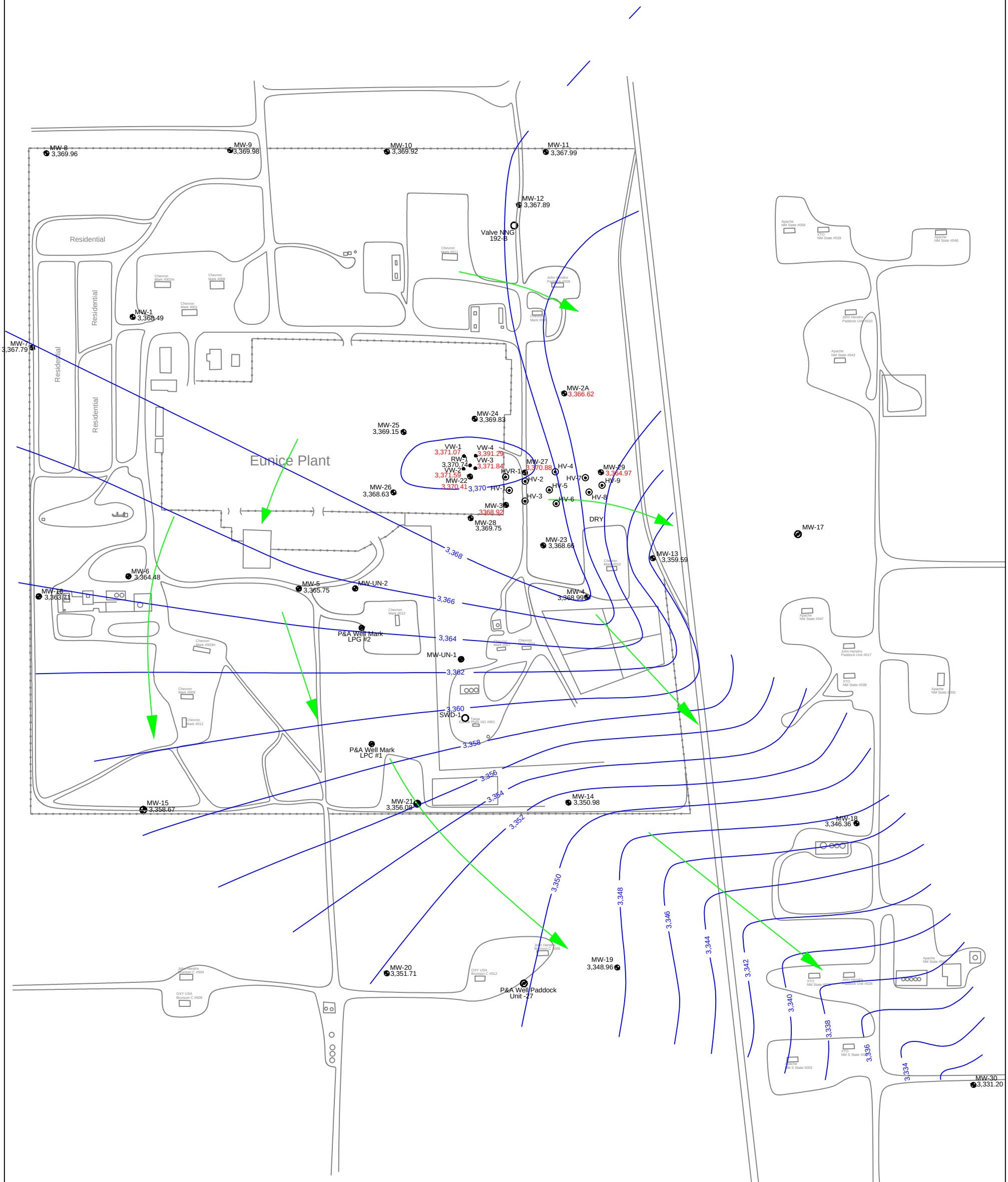
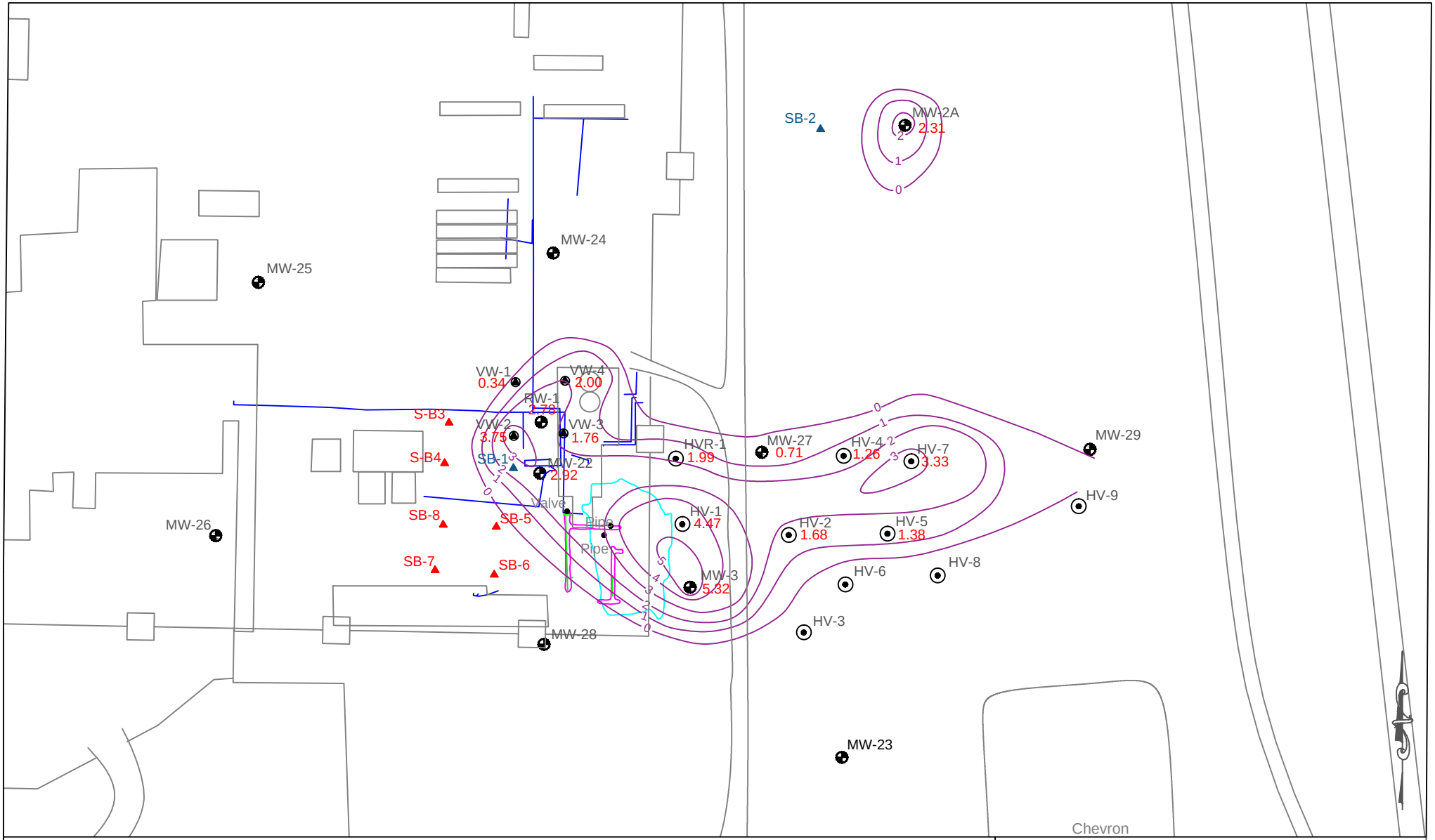


Figure 4b - Groundwater Potentiometric Surface Map, November 9, 2015

11" x 17"



Legend

- MW-27 - Monitoring Well Location
- HV-1 - High Volume Extraction Well Location
- VW-2 - Recovery Well Location
- SB-1 - Soil Boring Locations
- SB-7 - Temporary Monitoring Well Location
- Contour of Apparent LNAPL Thickness, Feet, April 29, 2015
- Hydroexcavation Trench Locations
- Excavation Area locations, January 15, 2015
- Excavation Area location, April 14, 2010
- Pipeline Locations
- 1.68 - Apparent LNAPL Thickness, Feet

125 0 125

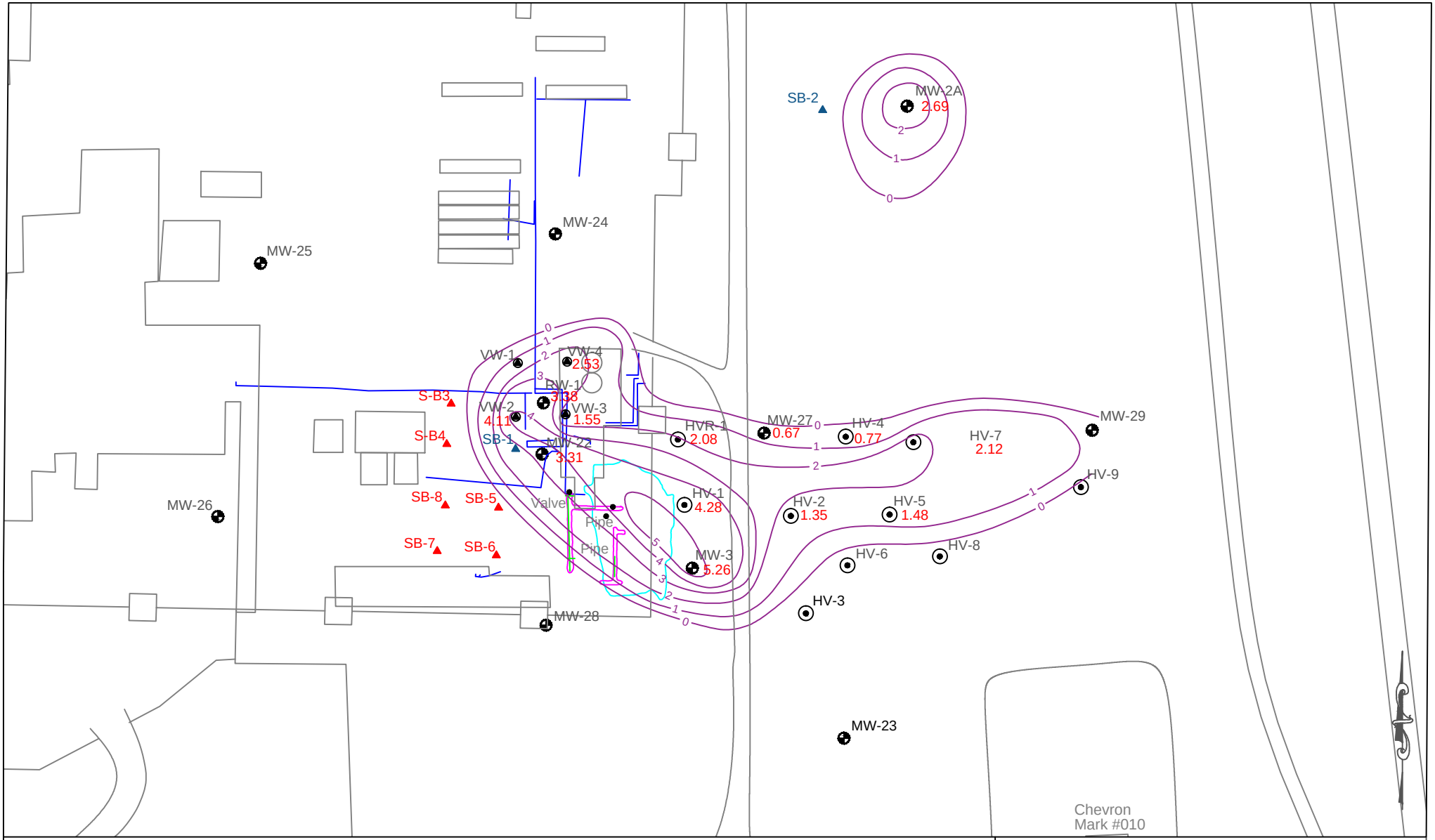
Graphic Scale in Feet

Targa Midstream Services
Eunice Plant LNAPL Investigation
Lea County, New Mexico
32° 25' 28.441" N
103° 08' 43.048" W

Larson & Associates, Inc.
Environmental Consultants

Figure 5a - Apparent LNAPL Thickness Map, April 29, 2015

11"x 8.5"



Legend

MW-27 - Monitoring Well Location

HV-1 - High Volume Extraction Well Location

VW-2 - Recovery Well Location

SB-1 - Soil Boring Locations

SB-7 - Temporary Monitoring Well Location

- Contour of Apparent LNAPL Thickness, Feet, June 29, 2015

- Hydroexcavation Trench Locations

- Excavation Area locations, January 15, 2015

- Excavation Area location, April 14, 2010

- Pipeline Locations

1.55 - Apparent LNAPL Thickness, Feet

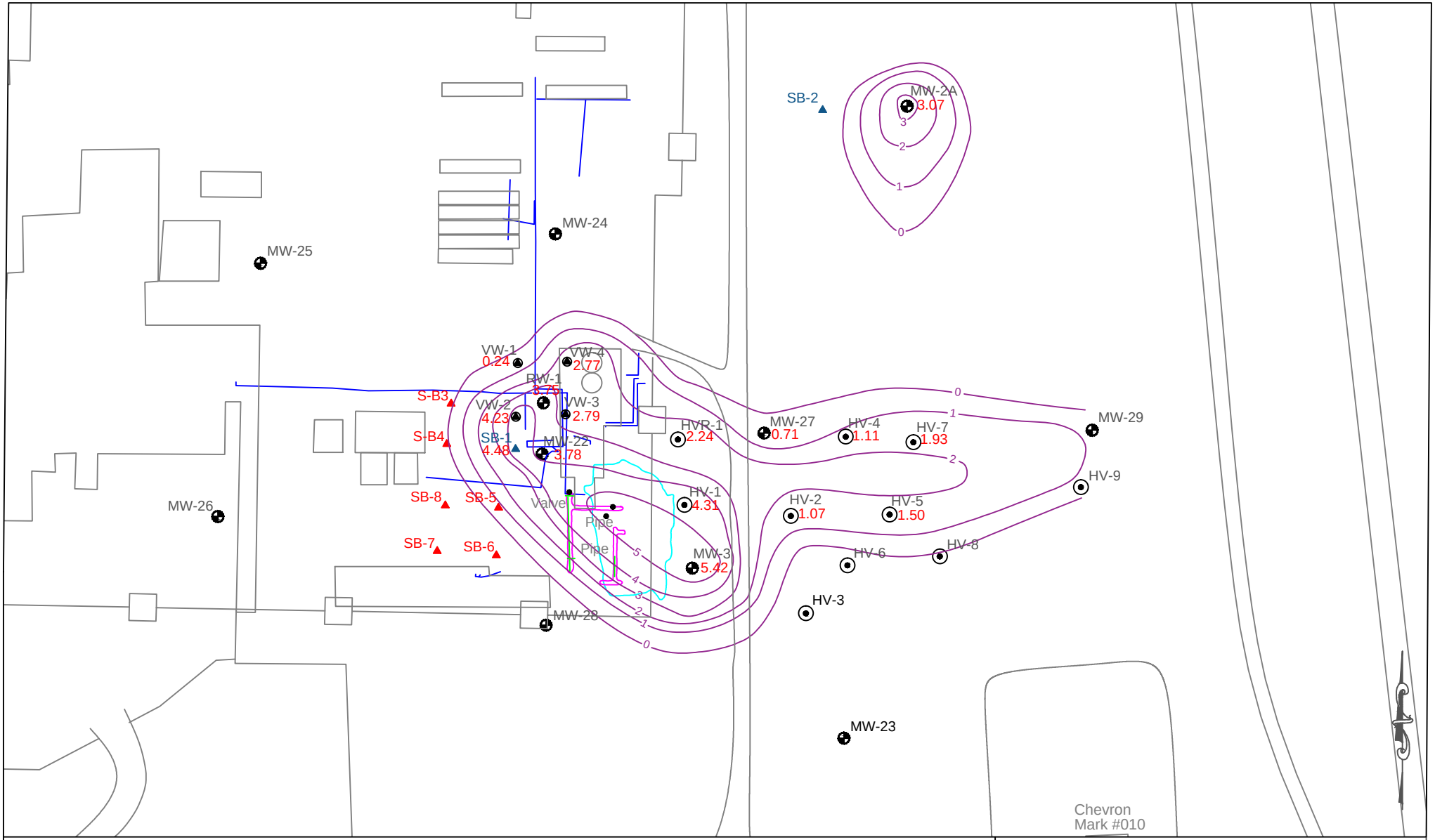
125 0 125

Graphic Scale in Feet

Targa Midstream Services
Eunice Plant LNAPL Investigation
Lea County, New Mexico
32° 25' 28.441" N
103° 08' 43.048" W

Larson & Associates, Inc.
Environmental Consultants

Figure 5b - Apparent LNAPL Thickness Map, June 29, 2015



Legend

MW-27	- Monitoring Well Location		- Hydroexcavation Trench Locations
HV-1	- High Volume Extraction Well Location		- Excavation Area locations, January 15, 2015
VW-2	- Recovery Well Location		- Excavation Area location, April 14, 2010
SB-1	- Soil Boring Locations		- Pipeline Locations
SB-7	- Temporary Monitoring Well Location	×	- Pot Holes
	- Contour of Apparent LNAPL Thickness, Feet, September 8, 2015	1.55	- Apparent LNAPL Thickness, Feet

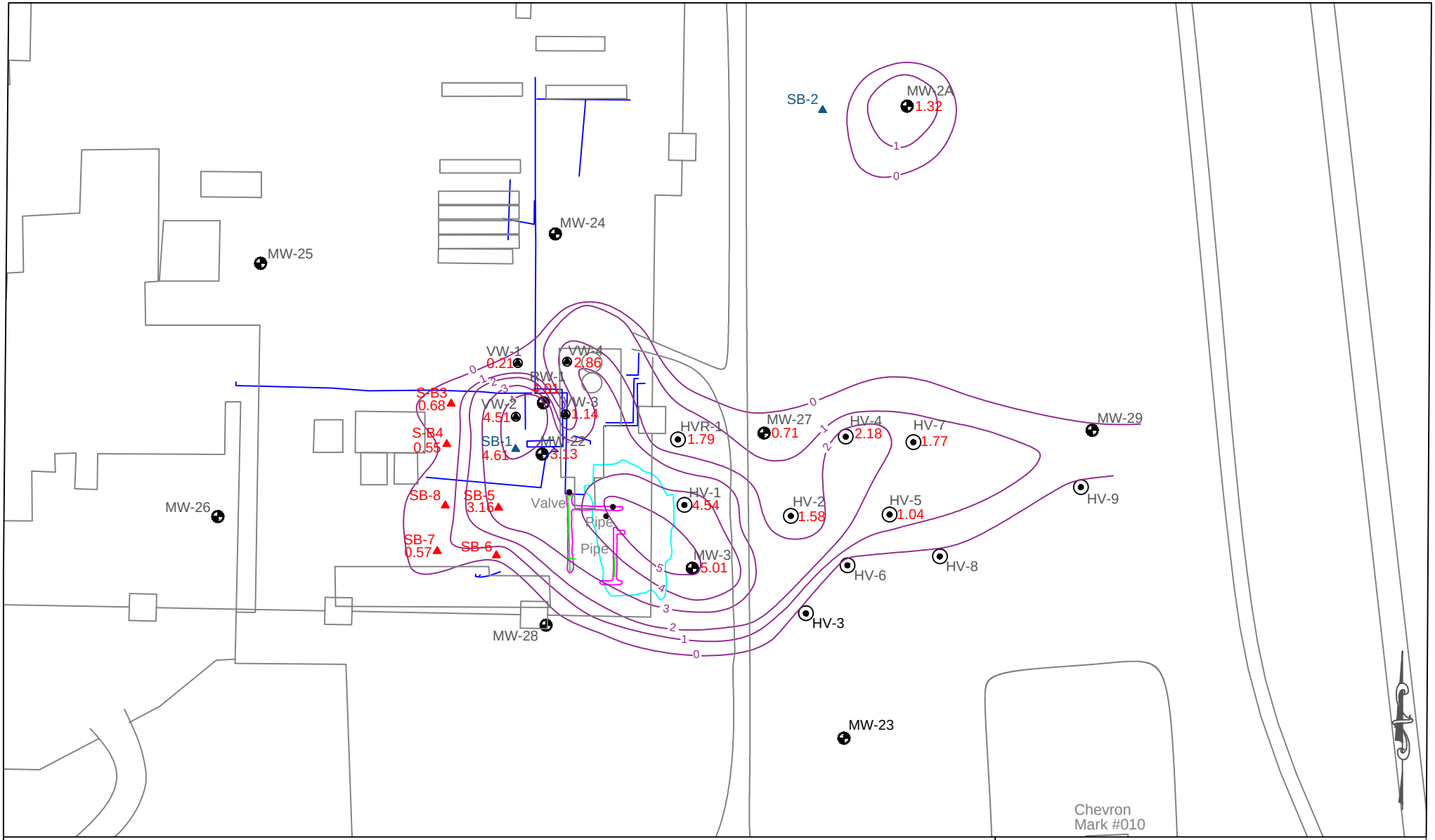
125 0 125

Graphic Scale in Feet

Targa Midstream Services
Eunice Plant LNAPL Investigation
Lea County, New Mexico
32° 25' 28.441" N
103° 08' 43.048" W

LA Larson & Associates, Inc.
Environmental Consultants

Figure 5c - Apparent LNAPL Thickness Map, September 8, 2015



Legend

MW-27 - Monitoring Well Location

HV-1 - High Volume Extraction Well Location

VW-2 - Recovery Well Location

SB-1 - Soil Boring Locations

SB-7 - Temporary Monitoring Well Location

- Contour of Apparent LNAPL Thickness, Feet, December 18, 2015

- Hydroexcavation Trench Locations

- Excavation Area locations, January 15, 2015

- Excavation Area location, April 14, 2010

- Pipeline Locations

1.32 - Apparent LNAPL Thickness, Feet

125 0 125

Graphic Scale in Feet

Targa Midstream Services
Eunice Plant LNAPL Investigation
Lea County, New Mexico
32° 25' 28.441" N
103° 08' 43.048" W

Larson & Associates, Inc.
Environmental Consultants

Figure 5d - Apparent LNAPL Thickness Map, December 18, 2015

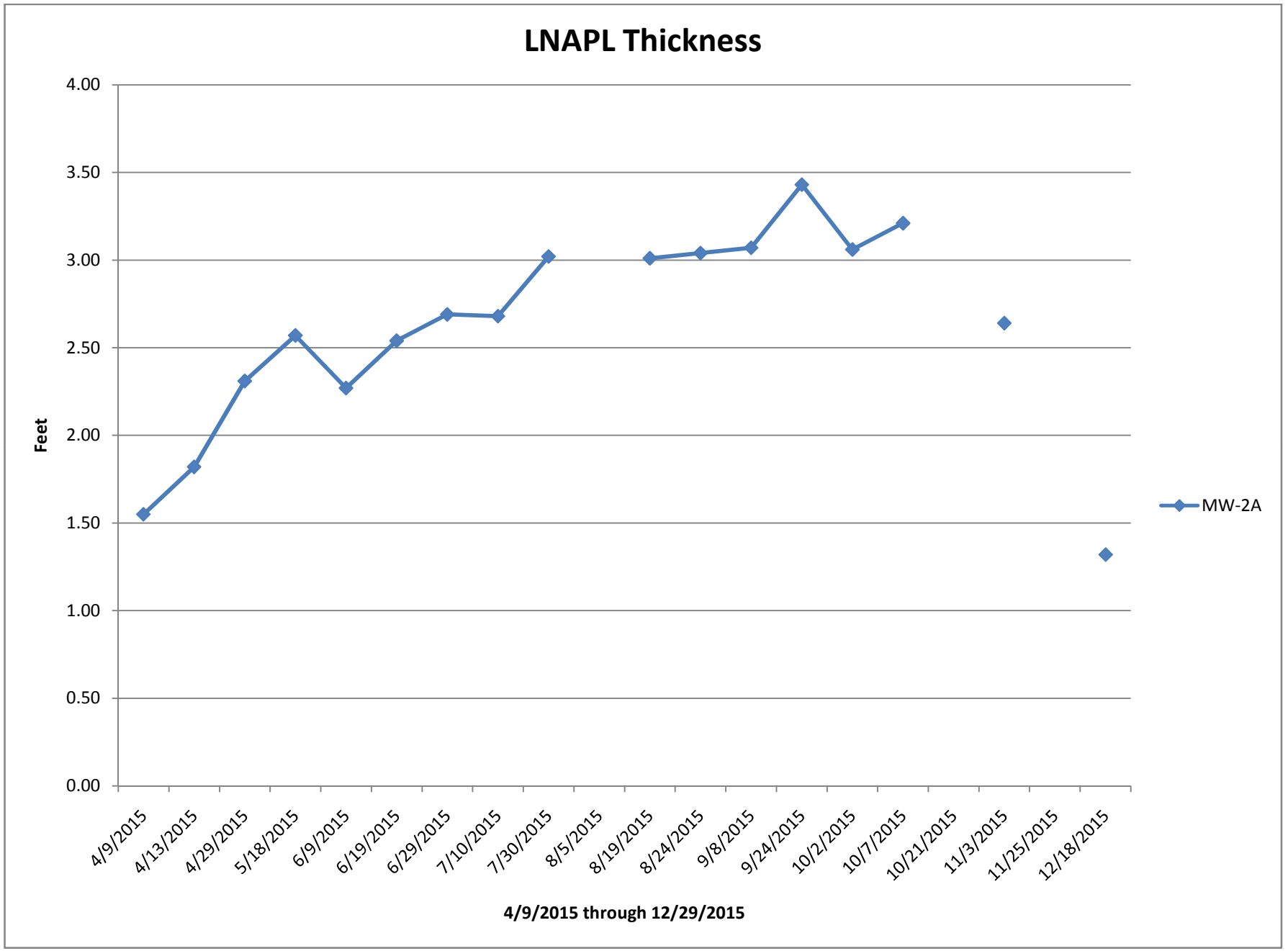


Figure 6a - LNAPL Thickness, MW-2A

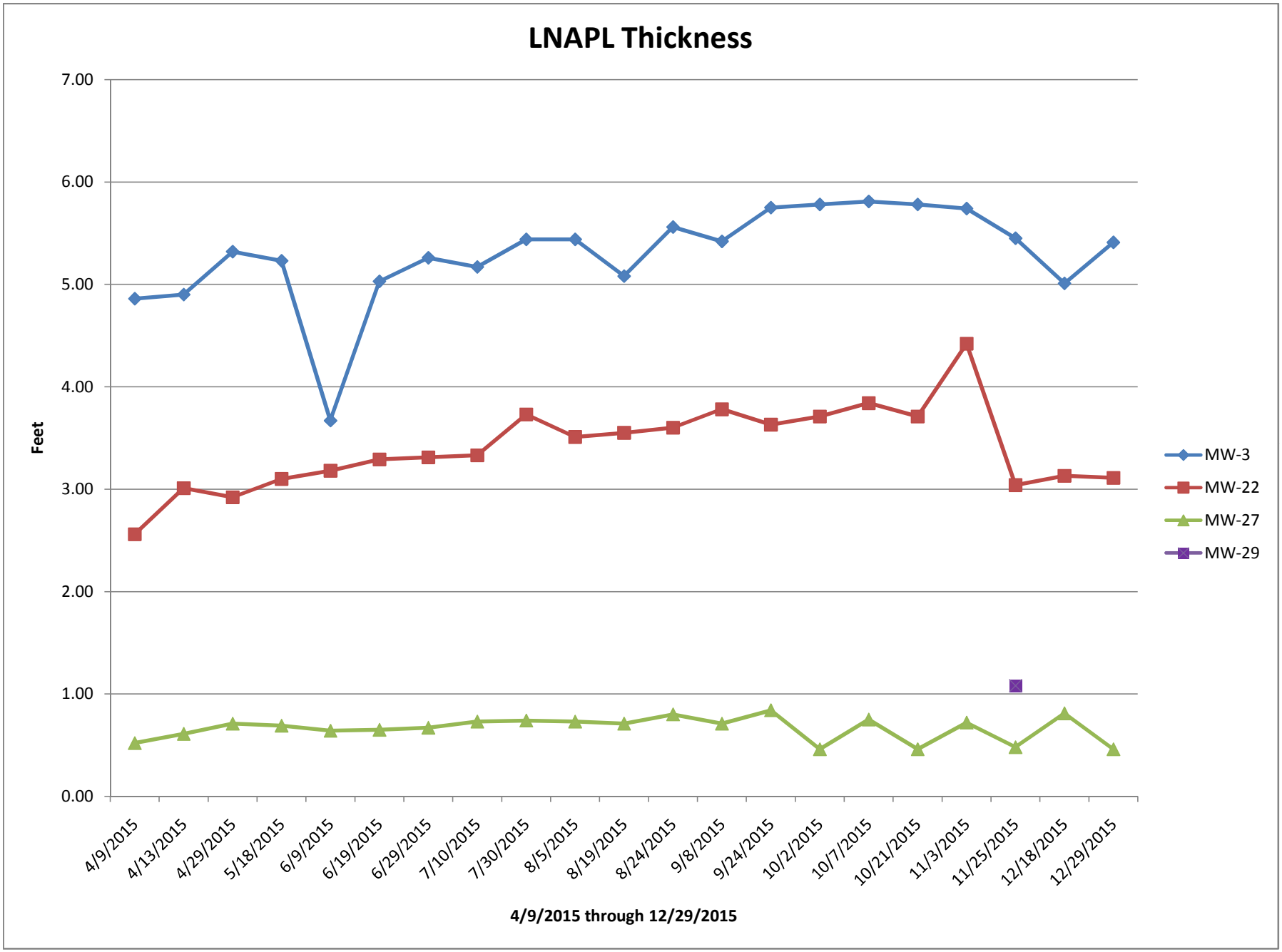


Figure 6b - LNAPL Thickness, MW-3, MW-22, MW-27, and MW-29

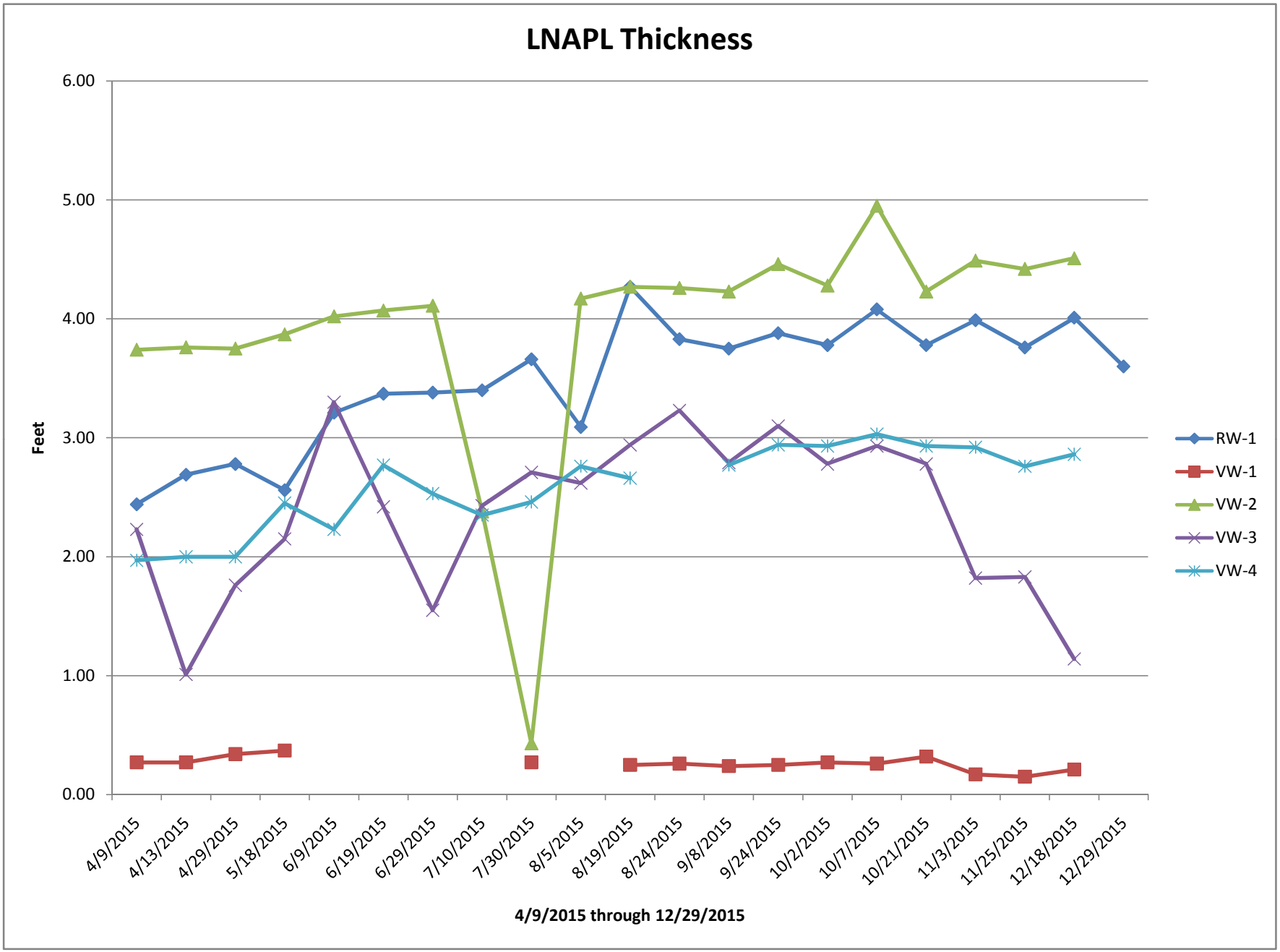


Figure 6c - LNAPL Thickness, RW-1, VW-1 through VW-4

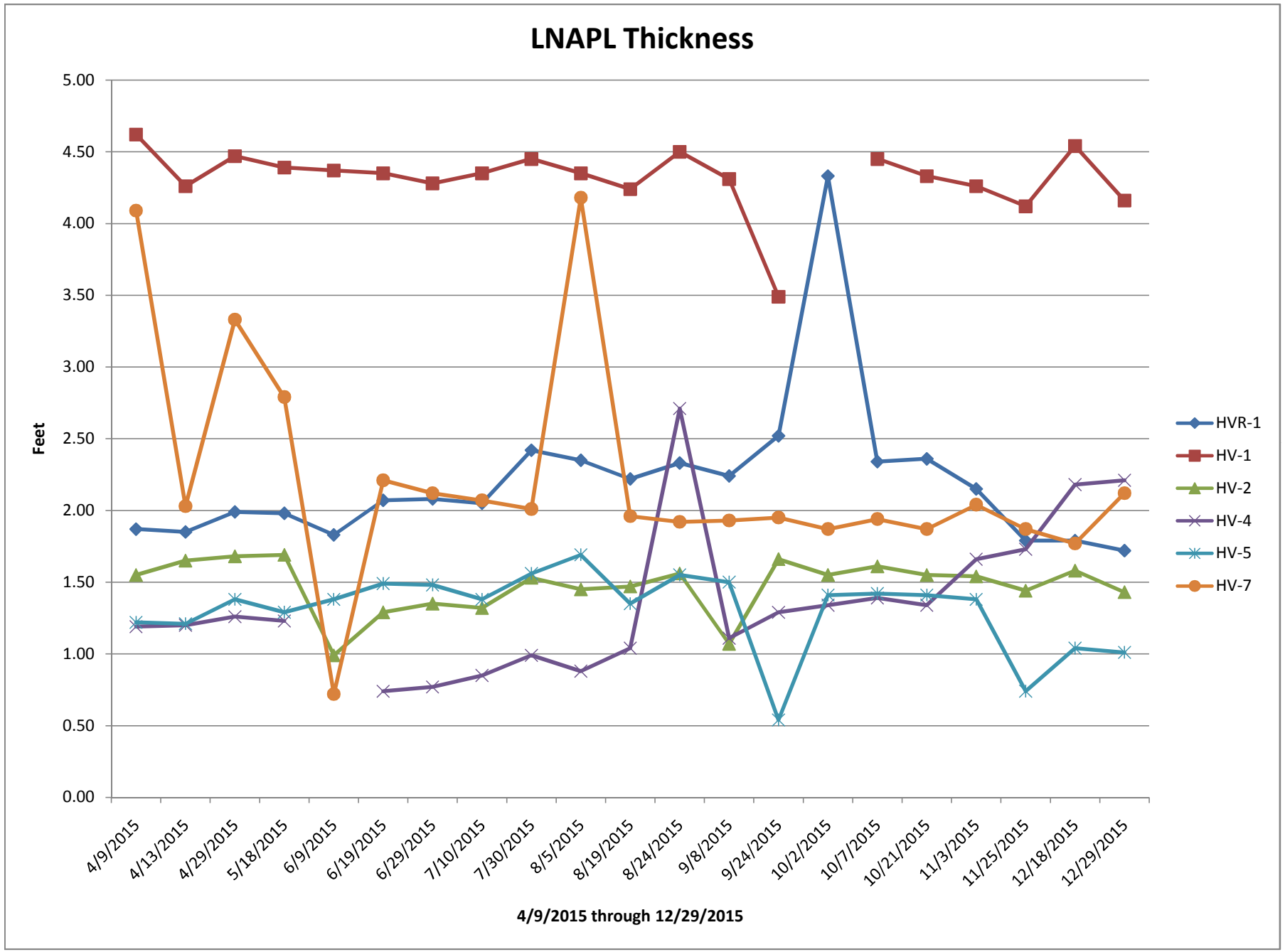
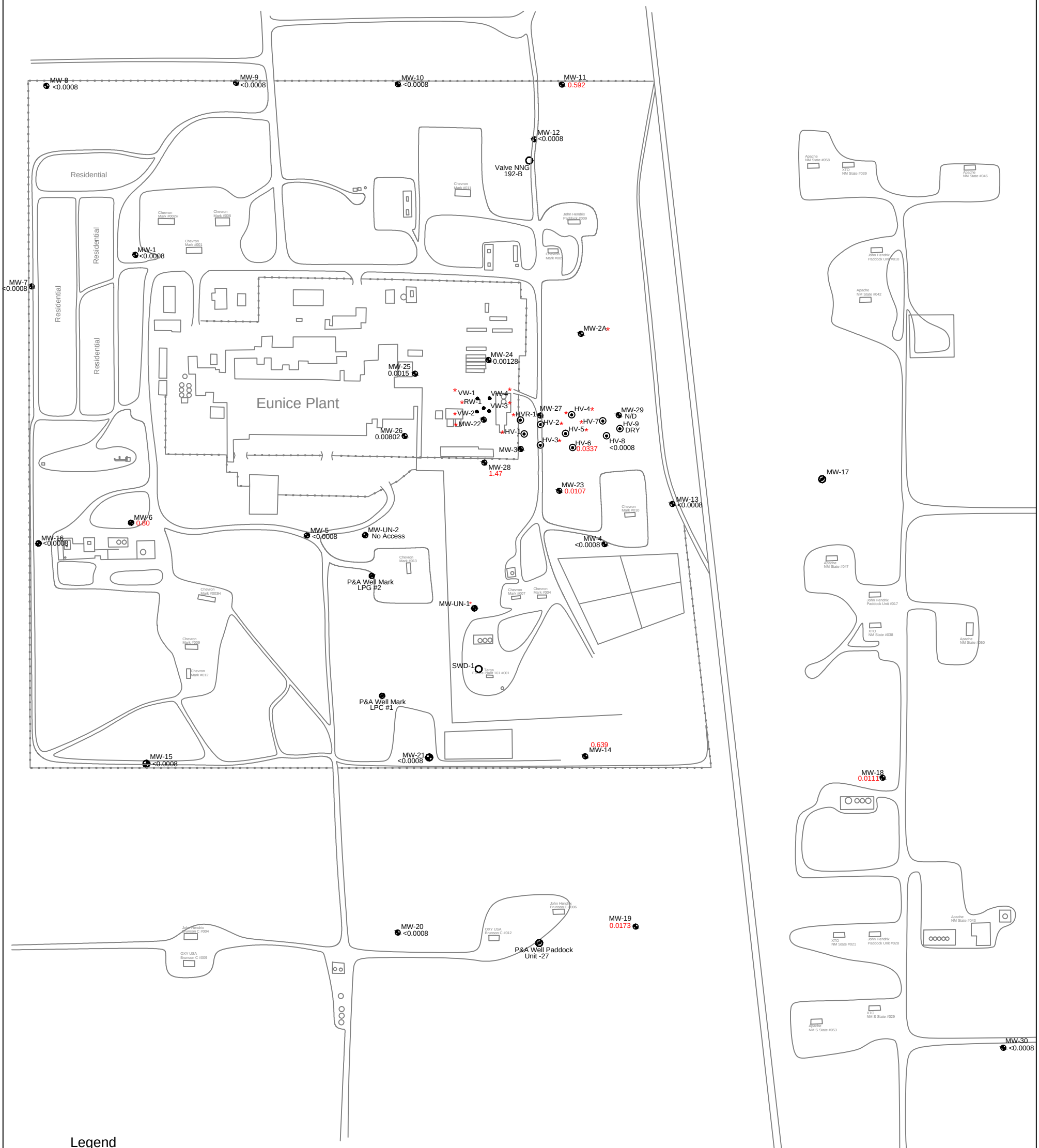


Figure 6d - LNAPL Thickness, HRV-1, HV-1, HV-2, HV-4, HV-5 and HV-7



Legend

MW-18
0.0111
- Monitoring Well Location and Benzene Concentration in Groundwater, mg/L, June 2-3, 2015

VW-1
- Recovery Well Location

HV-3
0.0028
- High Vacuum Extraction Well Location and Benzene Concentration in Groundwater, mg/L, June 2-3, 2015

MW-17
- Plugged Well

< - Below Method Detection Limit

* - Not Sampled - LNAPL Present

N/D - No well data available

Exceeds WQCC Human Health Standard: 0.01 mg/L

375 0 375

Graphic Scale in Feet

Targa Midstream Services, LLC
Eunice Gas Plant
NE/4, Sec. 3, T-22-S, R-37-E
Lea County, New Mexico

N 32° 25' 29.3"
W 103° 08' 50.1"

Larson & Associates, Inc.
Environmental Consultants

Figure 7a - Benzene Concentration in Groundwater, June 2-3, 2015

11" x 17"

MW-8 <0.0008
MW-9 <0.0008
MW-10 <0.0008
MW-11 0.0527
MW-12 <0.0008
Valve NNG 192-B
Residential
Residential
Residential
Residential
MW-1 <0.0008
MW-7 <0.0008
MW-2A*
MW-24 0.000807
MW-25 0.0117
VW-1*
VW-4*
RW-1*
VW-3*
VW-2*
MW-22*
HVR-1*
MW-27
HV-4*
MW-29*
HV-2*
HV-7*
HV-9*
HV-5*
HV-1*
HV-3*
HV-6*
HV-8 <0.0008
MW-26 N/D
MW-3 0.0028
MW-28 0.75
Eunice Plant
MW-23 0.00303
MW-13 <0.0008
MW-6 0.60
MW-16 <0.0008
MW-5 <0.0008
MW-UN-2 No Access
MW-4 <0.0008
P&A Well Mark LPG #2
MW-UN-1*
SWD-1
P&A Well Mark LPC #1
MW-15 <0.0008
MW-21 <0.0008
MW-14 0.559
MW-20 <0.0008
MW-19 0.0291
P&A Well Paddock Unit -27
MW-17
MW-18 0.0277
MW-30 <0.0008

Legend

MW-24 0.000807 - Monitoring Well Location and Benzene Concentration in Groundwater, mg/L, November 10-11, 2015

VW-1 - Recovery Well Location

HV-3 0.0028 - High Vacuum Extraction Well Location and Benzene Concentration in Groundwater, mg/L, November 10-11, 2015

MW-17 - Plugged Well

< - Below Method Detection Limit

* - Not Sampled - LNAPL Present

N/D - No well data available

Exceeds WQCC Human Health Standard: 0.01 mg/L

375 0 375

Graphic Scale in Feet

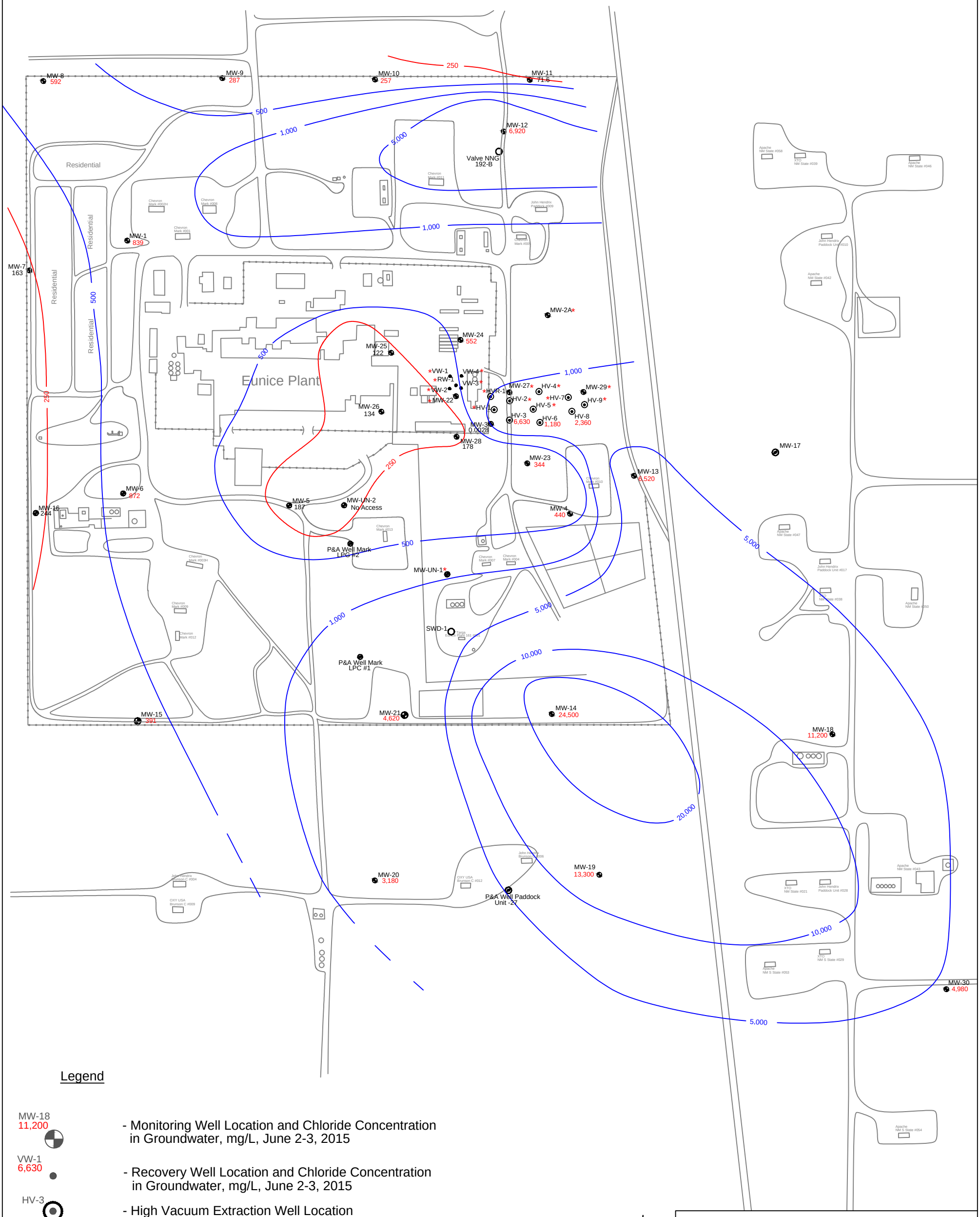
Targa Midstream Services, LLC
Eunice Gas Plant
NE/4, Sec. 3, T-22-S, R-37-E
Lea County, New Mexico

N 32° 25' 29.3"
W 103° 08' 50.1"

Larson & Associates, Inc.
Environmental Consultants

Figure 7b - Benzene Concentration in Groundwater, November 10-11, 2015

11" x 17"



Legend

MW-18
11,200
- Monitoring Well Location and Chloride Concentration in Groundwater, mg/L, June 2-3, 2015

VW-1
6,630
- Recovery Well Location and Chloride Concentration in Groundwater, mg/L, June 2-3, 2015

HV-3
- High Vacuum Extraction Well Location

MW-17
- Plugged Monitoring Well

1,000
- Contour of Chloride Concentration in Groundwater, mg/L, June 2-3, 2015 (Dashed where inferred)

N/D
- No well data available

*
- No Sample Collected - LNAPL Present

Exceeds WQCC Domestic Water Quality Standard: 250 mg/L

375 0 375

Graphic Scale in Feet

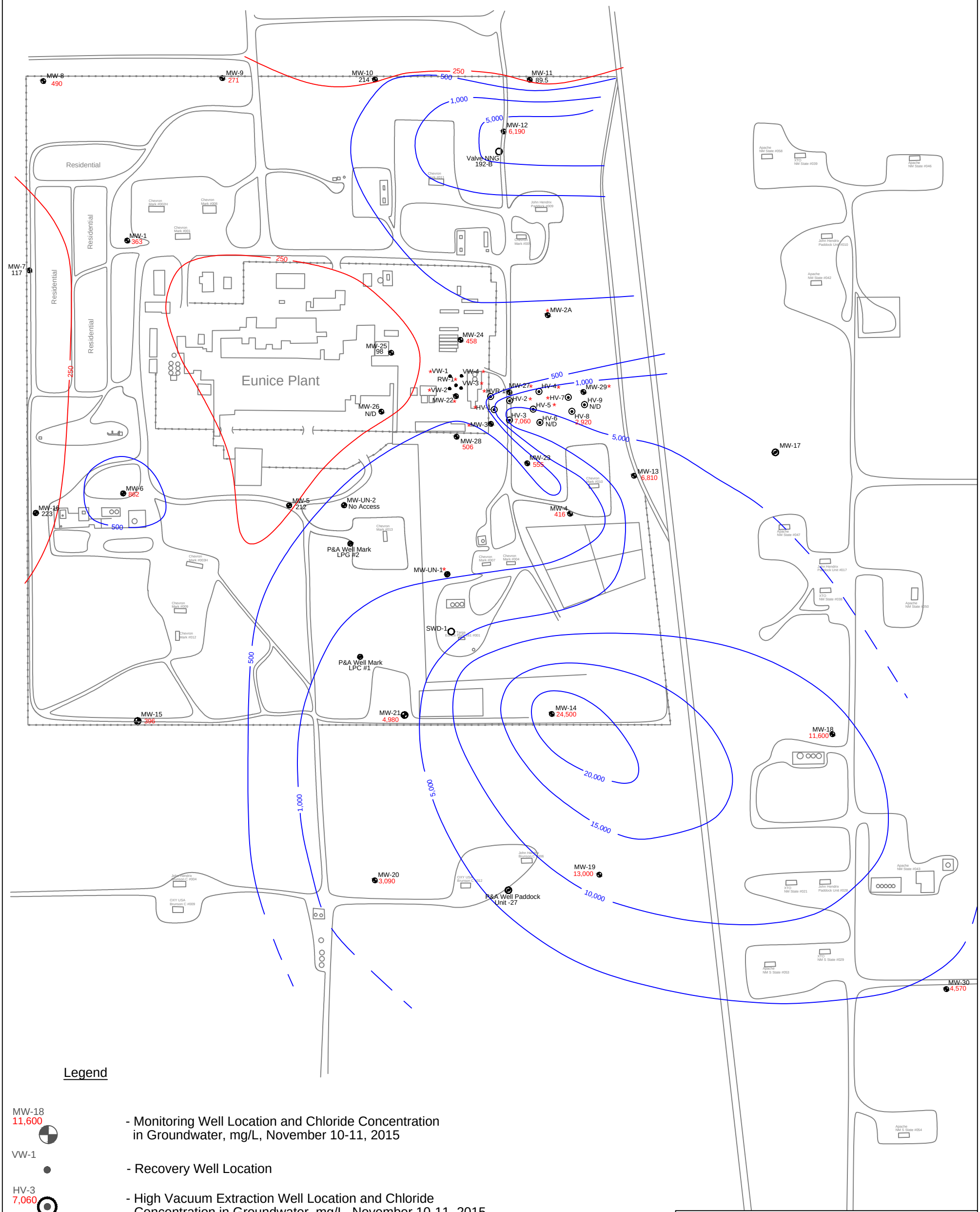
Targa Midstream Services, LLC
Eunice Gas Plant
NE/4, Sec. 3, T-22-S, R-37-E
Lea County, New Mexico

N 32° 25' 29.3"
W 103° 08' 50.1"

Larson & Associates, Inc.
Environmental Consultants

Figure 8a - Chloride Concentration in Groundwater, June 2-3, 2015

11" x 17"



Legend

MW-18
11,600
- Monitoring Well Location and Chloride Concentration in Groundwater, mg/L, November 10-11, 2015

VW-1
- Recovery Well Location

HV-3
7,060
- High Vacuum Extraction Well Location and Chloride Concentration in Groundwater, mg/L, November 10-11, 2015

MW-17
- Plugged Monitoring Well

1,000
- Contour of Chloride Concentration in Groundwater, mg/L, November 10-11, 2015 (Dashed where inferred)

N/D
- No well data available

*
- No Sample Collected - LNAPL Present

Exceeds WQCC Domestic Water Quality Standard: 250 mg/L

375 0 375

Graphic Scale in Feet

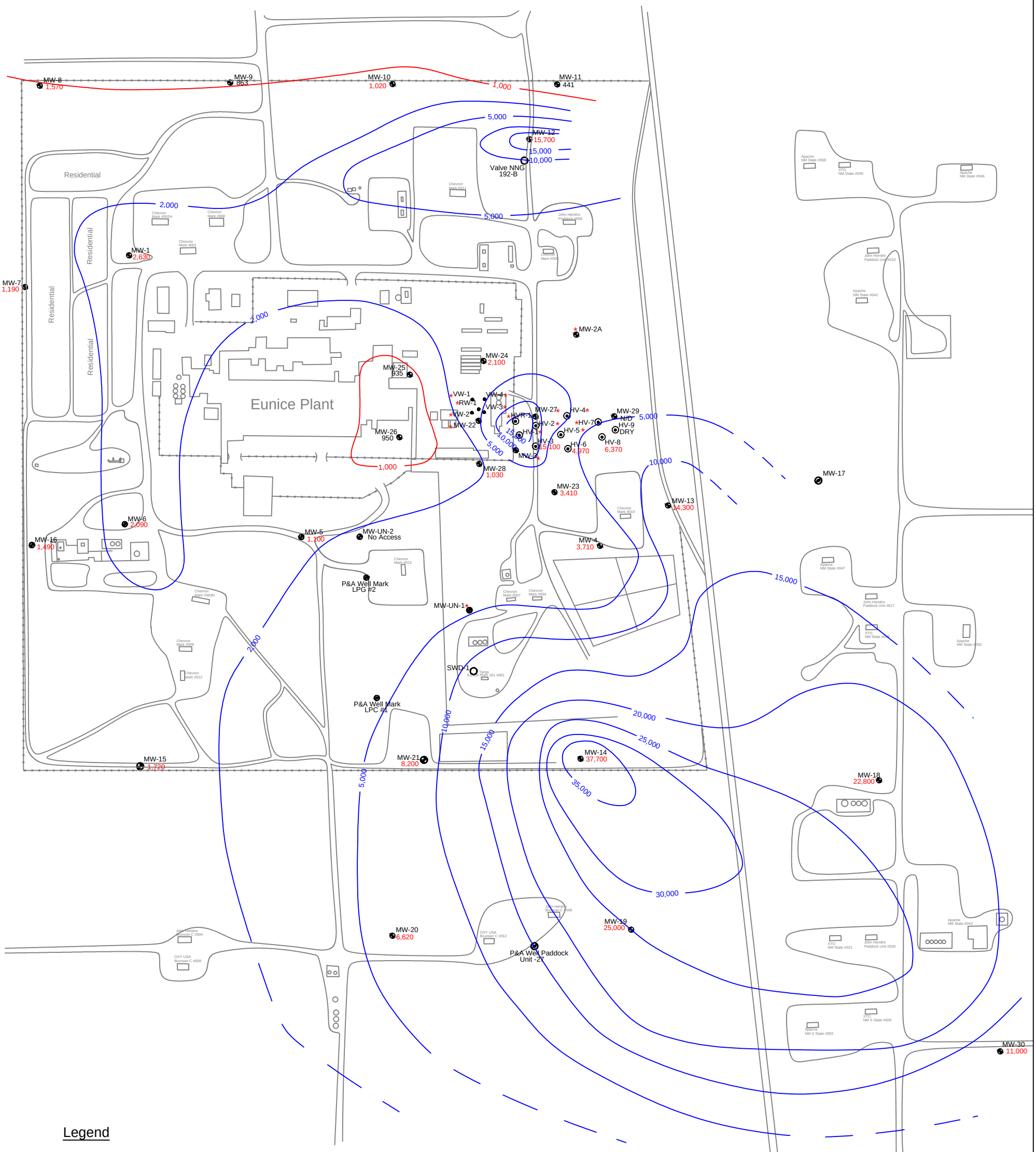
Targa Midstream Services, LLC
Eunice Gas Plant
NE/4, Sec. 3, T-22-S, R-37-E
Lea County, New Mexico

N 32° 25' 29.3"
W 103° 08' 50.1"

Larson & Associates, Inc.
Environmental Consultants

Figure 8b - Chloride Concentration in Groundwater, November 10-11, 2015

11" x 17"



Legend

MW-18
22,800
- Monitoring Well Location and TDS in Groundwater, mg/L, June 2-3, 2015

VW-1
- Recovery Well Location

HV-3
15,100
- High Vacuum Extraction Well Location and TDS in Groundwater, mg/L, June 2-3, 2015

MW-17
- Plugged Monitoring Well

15,000
- Contour of TDS in Groundwater, mg/L, June 2-3, 2015 (Dashed where inferred)

N/D
- No well data available

*
- No Sample Collected - LNAPL Present

Exceeds WQCC Domestic Water Quality Standard: 1,000 mg/L

375 0 375
Graphic Scale in Feet

Targa Midstream Services, LLC
Eunice Gas Plant
NE/4, Sec. 3, T-22-S, R-37-E
Lea County, New Mexico

N 32° 25' 29.3"
W 103° 08' 50.1"

Larson & Associates, Inc.
Environmental Consultants

Figure 9a - Total Dissolved Solids in Groundwater June 2-3, 2015

11" x 17"

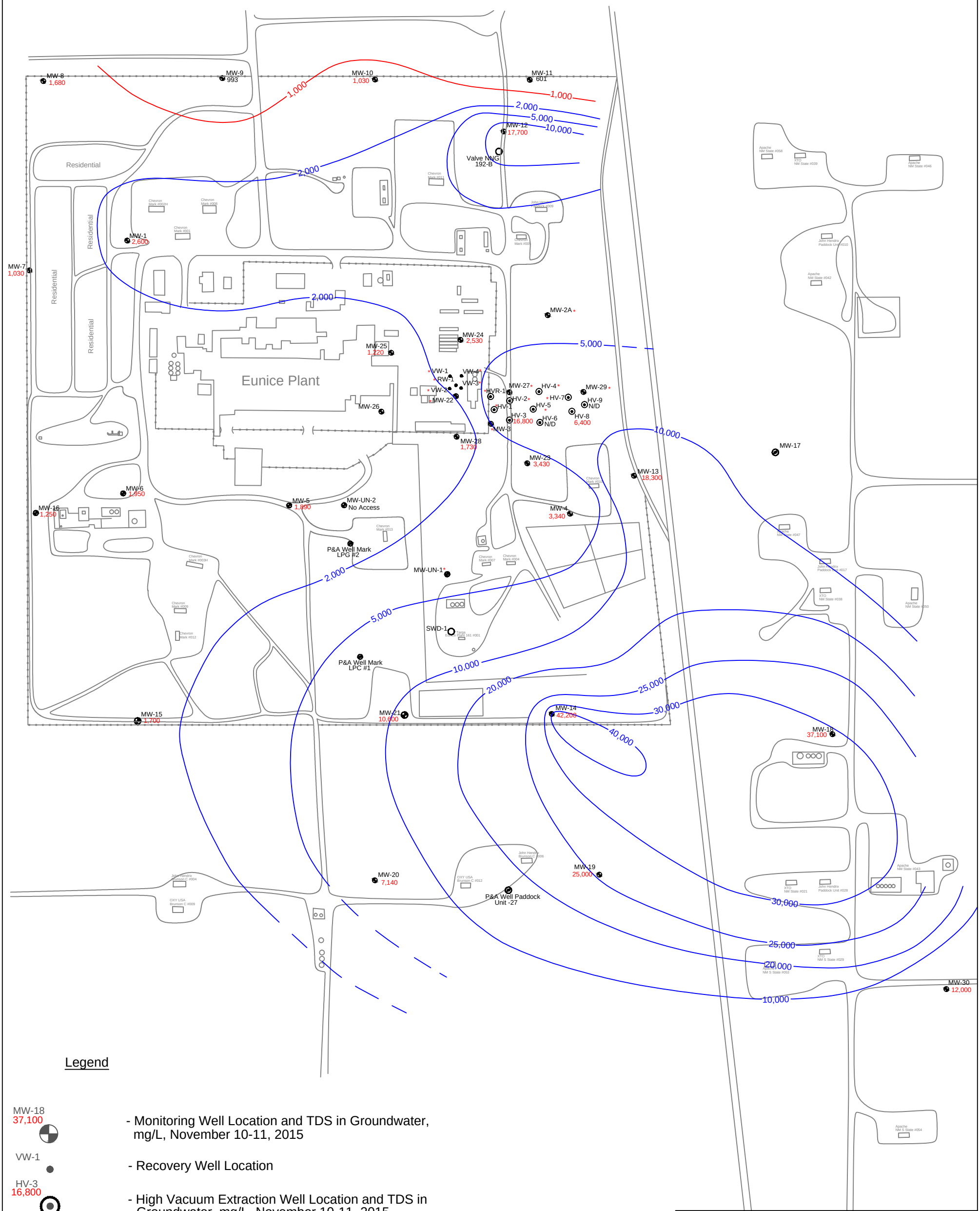
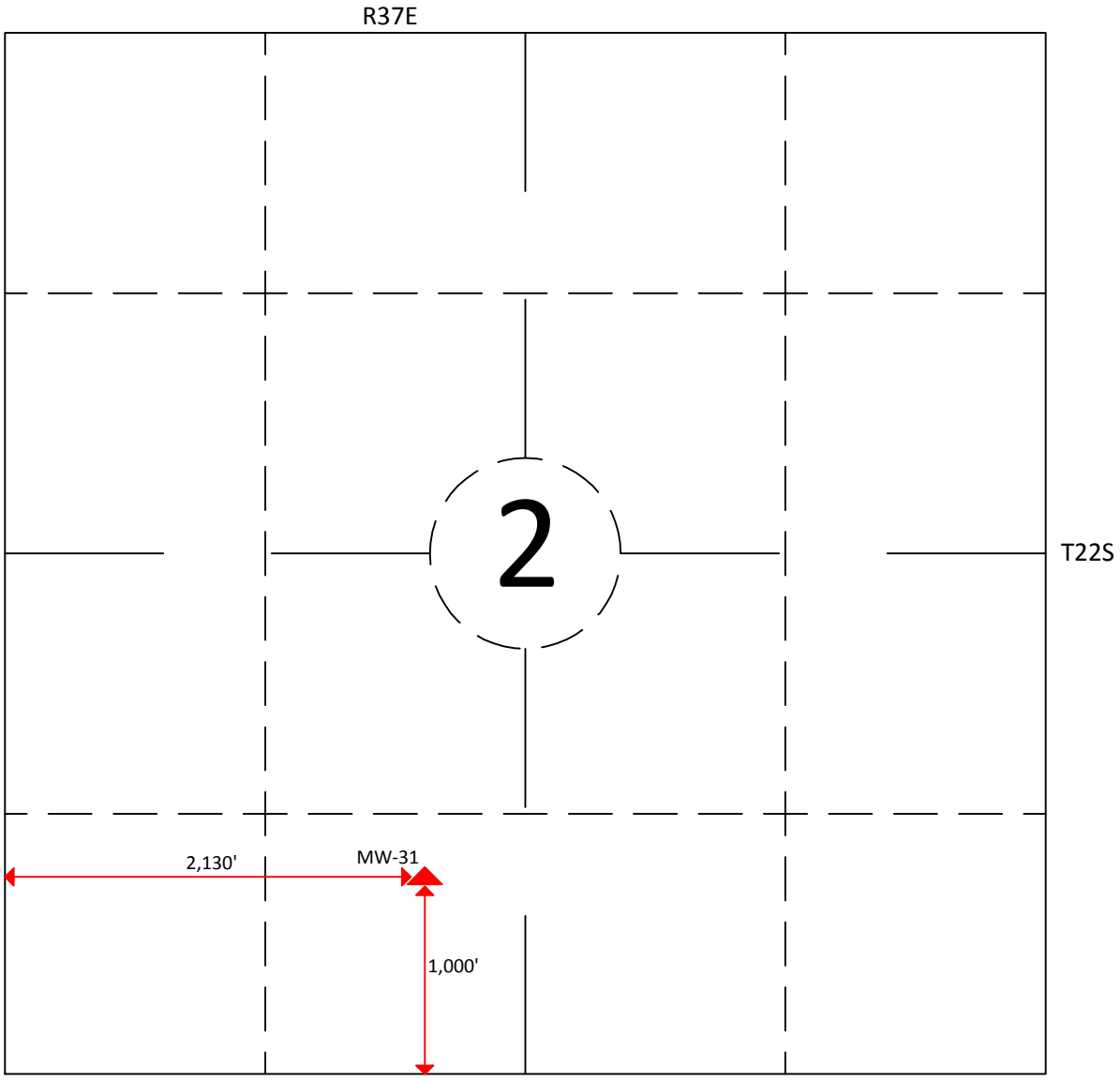


Figure 9b - Total Dissolved Solid Concentration in Groundwater November 10-11, 2015

11" x 17"



880 0 880

Graphic Scale in Feet

Targa Midstream Services, L.P.
UL N, Section 2
Township 22 South, Range 37 East
Lea County, New Mexico

Larson & Associates, Inc.
Environmental Consultants

Legend

MW-31 Proposed Monitoring Well Location

Figure 10 - Proposed Monitoring Well Location

8.5" x 11"

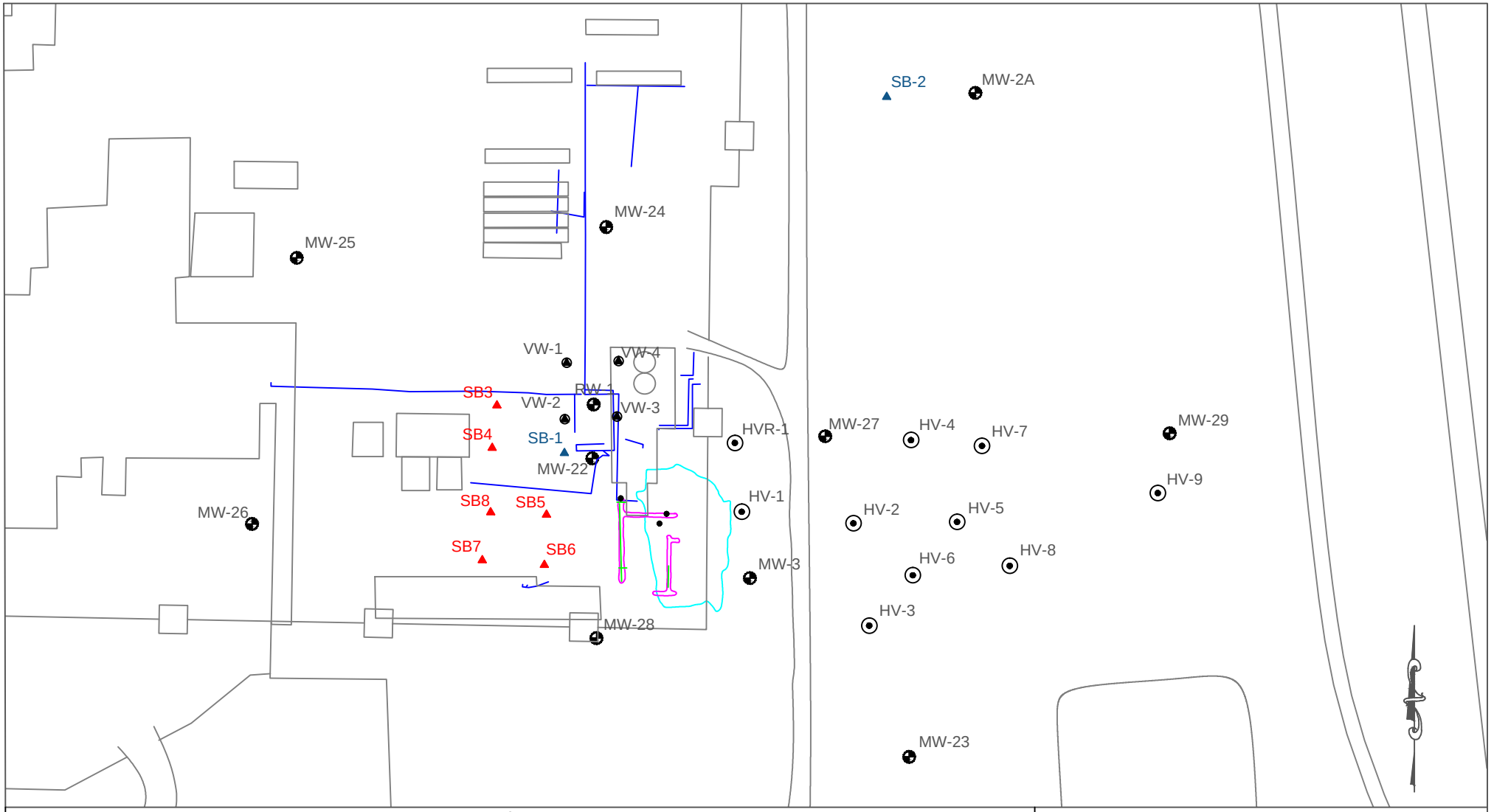


Figure 11 - Site Map Showing Excavation Area Locations

11" x 8.5"

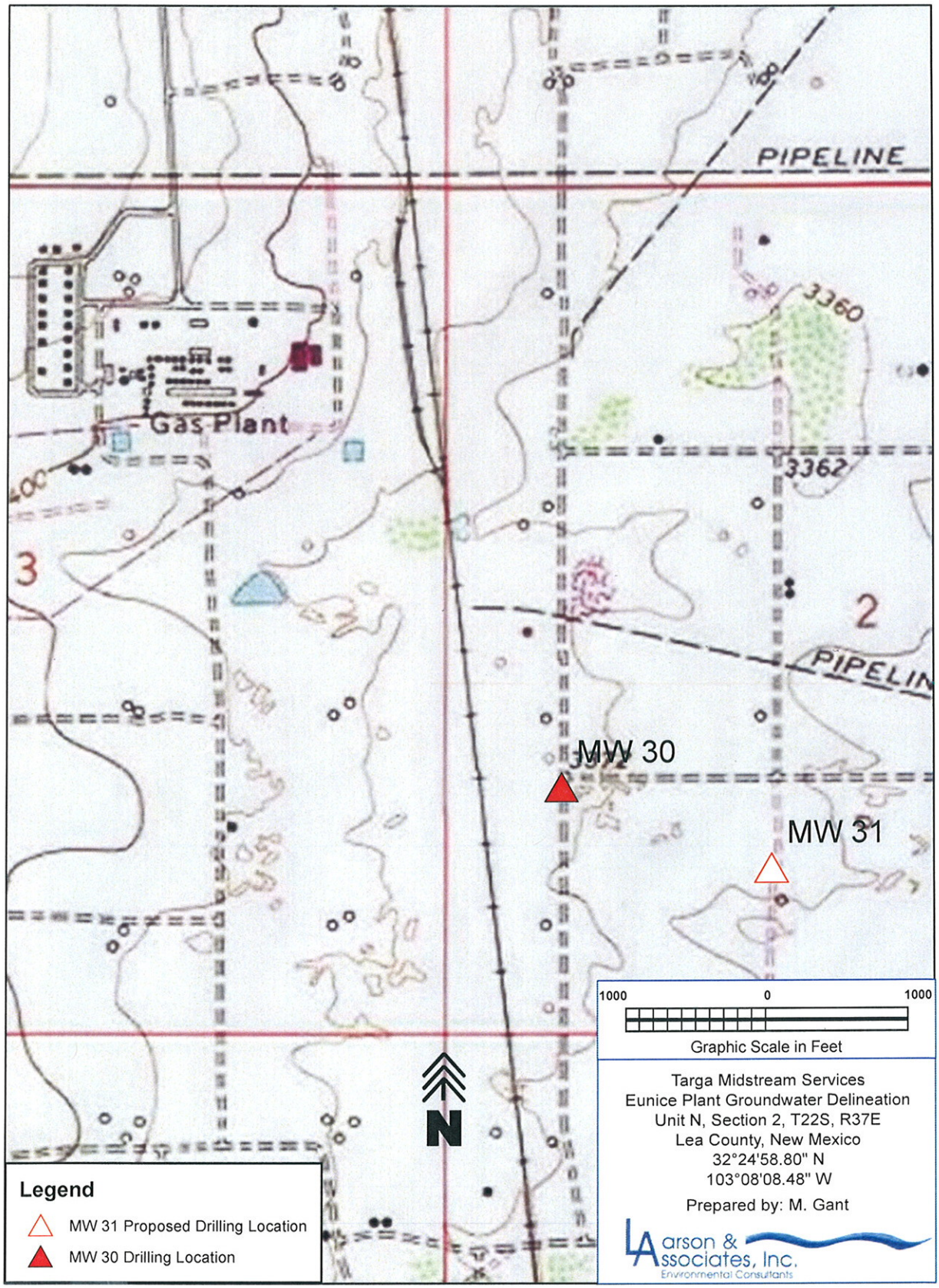


Figure 12 – Proposed Monitoring Well (MW-31) Location Map

APPENDIX A

LABORATORY REPORTS
AND
CHAIN OF CUSTODY DOCUMENTATION

June 17, 2015

Mark Larson
Larson & Associates
507 N. Marienfeld #205
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456

Order No.: 1506063

RE: Targa Eunice

Dear Mark Larson:

DHL Analytical, Inc. received 15 sample(s) on 6/4/2015 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-15-14

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 65852

CHAIN-OF-CUSTODY

CLIENT: Larson and Associates
ADDRESS: 507 N. Marienfeld Ste. 205 Midland, TX 79701
PHONE: (432) 687-0901 FAX/E-MAIL:
DATA REPORTED TO: Mark Larson
ADDITIONAL REPORT COPIES TO:

DATE: 6/3/2015 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 1506063
PROJECT LOCATION OR NAME: Targa Eunice
CLENT PROJECT #: 2-0103 COLLECTOR: Sarah Shotts

Authorize 5% surcharge for TRRP Report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT
P=PAINT SL=SLUDGE O=OTHER SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ [METHOD 8021] | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐ | VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ 8270 PCB ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ T PHOS, AMMONIA ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ | RCRA ☒ TX11 ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☒ COD ☐ | CHLORIDES ☒ ANIONS ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ FLASHPOINT ☐ DGAS ☐ | TDS ☒ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | Ca ☒ Mg ☒ K ☒ Alk ☒ Sulfide ☒

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
MW-30	01	6/2/15	9:15	W	Poly/VOA	5	X	X		X		X	
MW-18	02		9:30										
MW-19	03		10:15										
MW-20	04		10:30										
MW-1	05		11:00										
MW-7	06		11:30										
MW-5	07		11:45										
MW-6	08		12:05										
MW-16	09		12:30										
MW-15	10		12:45										
MW-21	11		1:15										
MW-14	12		1:30										
MW-8	13		2:00										
MW-9	14		2:30										
MW-10	15		3:00										

RELINQUISHED BY: (Signature) DATE/TIME 6/3/15 8:30AM RECEIVED BY: (Signature) Lonestar
RELINQUISHED BY: (Signature) DATE/TIME 6/4/15 0820 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP 2.3, 1.2 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☒ NOT USED
CARRIER: ☒ LONE STAR ☐ FEDEX ☐ UPS ☐ OTHER
☐ COURIER DELIVERY
☐ HAND DELIVERED

LSO

WWW.LSO.COM
Questions? Call 800-800-898

Airbill No. 48947420

48947420

1. To: Print Name (Person): J. Barker | Phone (Important): (512) 388-8222

Company Name: PHL Analytical

Street Address (No P.O. Box or P.O. Box Zip Code for Deliveries): 2300 Double Creek Dr.

Suite / Floor:

City: Round Rock | State: TX | Zip: 78664

2. From: Name (Person): | Phone (Important): 432-687-0901

Company Name: LARSON & ASSOCIATES

Street Address: 507 N. MARIENFELD ST.

Suite / Floor: #200

City: MIDLAND | State: TX | Zip: 79701

3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.

- ☒ LSO Priority Overnight* — By 10:30 a.m. to most cities
- ☐ LSO Early Overnight* — By 8:30 a.m. select cities
- ☐ LSO Economy Next Da — By 3 p.m. to most cities
- ☐ LSO 2nd Day*
- ☐ LSO Ground
- ☐ LSO Saturday*
- ☐ Other _____

*Check commitment times and availability at www.lso.com

Assumed LSO Priority Overnight service unless otherwise noted.

☒ Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

L ____ x W ____ x H ____

4. Package: Weight:

Your Company's Billing Reference Information

Ship Date: (mm/dd/yy) 6/3/15

5. Payment:

FOR DRIVER USE ONLY

Driver Number _____

☐ Check here if LSO Supplies are used with LSO Ground Service.

Pick-up Location _____

Date: _____

Time: _____

City Code: AUS

© 1991-2012 Lone Star Overnight

LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSO EARLY OVERNIGHT SERVICE. PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON LSO GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

LSO

WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 48947421

48947421

1. To: Print Name (Person) J. Becker Phone (Important) (512) 388-8227
Company Name DHL Analytical
Street Address (No P.O. Box or P.O. Box Zip Code Deliveries) 2300 Double Creek Dr.
Suite / Floor
City Round Rock State TX Zip 78664

2. From: Print Name (Person) Phone (Important) 432-687-0901
Company Name LARSON & ASSOCIATES
Street Address 507 N. MARIENFELD ST.
Suite / Floor #200
City MIDLAND State TX Zip 79701

3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.

- [X] LSO Priority Overnight* By 10:30 a.m. to most cities
- [ ] LSO Early Overnight* By 8:30 a.m. select cities
- [ ] LSO Economy Next Day* By 3 p.m. to most cities
- [ ] LSO 2nd Day*
- [ ] LSO Ground
- [ ] LSO Saturday*
- [ ] Other

*Check commitment times and availability at www.lso.com

Assumed LSO Priority Overnight service unless otherwise noted.

[X] Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

L____ x W____ x H____

4. Package: Weight:
Your Company's Billing Reference Information
Ship Date: (mm/dd/yy) 6/3/15

5. Payment:

FOR DRIVER USE ONLY
Driver Number
[ ] Check here if LSO Supplies are used with LSO Ground Service.
Pick-up Location
Date:
Time:
City Code: AUS

LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. **NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSO EARLY OVERNIGHT SERVICE. PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON LSO GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.**

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name **Larson & Associates** Date Received: **6/4/2015**

Work Order Number **1506063** Received by **MB**

Checklist completed by: _____ 6/4/2015 Reviewed by PL 6/4/2015
Signature | Date | Initials | Date

Carrier name LoneStar

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.3 °C I2
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 8086
	Adjusted? NO		Checked by
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

Corrective Action:

Page 1 of 1

DHL Analytical, Inc. **Date:** *17-Jun-15*

CLIENT: Larson & Associates
Project: Targa Eunice
Lab Order: 1506063

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW8021B - Volatile Organics by GC Analysis
Method SW7470A - Mercury Analysis
Method SW6020A - Metals Analysis
Method E300 - Anions Analysis
Method M2320 B - Alkalinity Analysis
Method M2540C - Total Dissolved Solids Analysis

LOG IN

The samples were received and log-in performed on 6/4/2015. A total of 15 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected in Mountain Standard Time.

METALS ANALYSIS

For Metals Analysis, the recoveries of up to four analytes for the Matrix Spike and Matrix Spike Duplicate (1506063-04 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. The reference sample selected for the Batch QC was from this work order. No further corrective action was taken.

For Metals Analysis, performed on 6/9/2015, the recovery of Sodium and/or Calcium for Low Level Calibration Verification(s) were below the method control limits. Additionally, the recovery of Potassium for the LCVL6-150612, performed on 6/12/2015, and the recovery of Sodium for LCVL1-150615, performed on 6/15/20145, were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were detected in the associated samples at levels above or similar to the levels detected In the CCV(s). No further corrective action was taken.

For Metals Analysis, the response factor of Internal Standard Bismuth 209-2 for Sample MW-18 was below the method control limits, due to concentration of target analytes in the sample. The affected analyte, Lead, was reported. No further corrective action was taken.

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT: Larson & Associates
Project: Targa Eunice
Lab Order: 1506063

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1506063-01	MW-30		06/02/15 09:15 AM	6/4/2015
1506063-02	MW-18		06/02/15 09:30 AM	6/4/2015
1506063-03	MW-19		06/02/15 10:15 AM	6/4/2015
1506063-04	MW-20		06/02/15 10:30 AM	6/4/2015
1506063-05	MW-1		06/02/15 11:00 AM	6/4/2015
1506063-06	MW-7		06/02/15 11:30 AM	6/4/2015
1506063-07	MW-5		06/02/15 11:45 AM	6/4/2015
1506063-08	MW-6		06/02/15 12:05 PM	6/4/2015
1506063-09	MW-16		06/02/15 12:30 PM	6/4/2015
1506063-10	MW-15		06/02/15 12:45 PM	6/4/2015
1506063-11	MW-21		06/02/15 01:15 PM	6/4/2015
1506063-12	MW-14		06/02/15 01:30 PM	6/4/2015
1506063-13	MW-8		06/02/15 02:00 PM	6/4/2015
1506063-14	MW-9		06/02/15 02:30 PM	6/4/2015
1506063-15	MW-10		06/02/15 03:00 PM	6/4/2015

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506063-01A	MW-30	06/02/15 09:15 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-01B	MW-30	06/02/15 09:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-30	06/02/15 09:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-30	06/02/15 09:15 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-01C	MW-30	06/02/15 09:15 AM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-30	06/02/15 09:15 AM	Aqueous	E300	Anion Preparation	06/08/15 08:51 AM	69930
	MW-30	06/02/15 09:15 AM	Aqueous	E300	Anion Preparation	06/08/15 08:51 AM	69930
	MW-30	06/02/15 09:15 AM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-02A	MW-18	06/02/15 09:30 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-02B	MW-18	06/02/15 09:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-18	06/02/15 09:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-18	06/02/15 09:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-18	06/02/15 09:30 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-02C	MW-18	06/02/15 09:30 AM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-18	06/02/15 09:30 AM	Aqueous	E300	Anion Preparation	06/08/15 08:51 AM	69930
	MW-18	06/02/15 09:30 AM	Aqueous	E300	Anion Preparation	06/08/15 08:51 AM	69930
	MW-18	06/02/15 09:30 AM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-03A	MW-19	06/02/15 10:15 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-03B	MW-19	06/02/15 10:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-19	06/02/15 10:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-19	06/02/15 10:15 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-03C	MW-19	06/02/15 10:15 AM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-19	06/02/15 10:15 AM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-19	06/02/15 10:15 AM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-19	06/02/15 10:15 AM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-04A	MW-20	06/02/15 10:30 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-04B	MW-20	06/02/15 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-20	06/02/15 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506063-04B	MW-20	06/02/15 10:30 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-04C	MW-20	06/02/15 10:30 AM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-20	06/02/15 10:30 AM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-20	06/02/15 10:30 AM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-05A	MW-1	06/02/15 11:00 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-05B	MW-1	06/02/15 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-1	06/02/15 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-1	06/02/15 11:00 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-05C	MW-1	06/02/15 11:00 AM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-1	06/02/15 11:00 AM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-1	06/02/15 11:00 AM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-06A	MW-7	06/02/15 11:30 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-06B	MW-7	06/02/15 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-7	06/02/15 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-7	06/02/15 11:30 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-06C	MW-7	06/02/15 11:30 AM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-7	06/02/15 11:30 AM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-7	06/02/15 11:30 AM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-07A	MW-5	06/02/15 11:45 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-07B	MW-5	06/02/15 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-5	06/02/15 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-5	06/02/15 11:45 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-07C	MW-5	06/02/15 11:45 AM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-5	06/02/15 11:45 AM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-5	06/02/15 11:45 AM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-08A	MW-6	06/02/15 12:05 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-08B	MW-6	06/02/15 12:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-6	06/02/15 12:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506063-08B	MW-6	06/02/15 12:05 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-08C	MW-6	06/02/15 12:05 PM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-6	06/02/15 12:05 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-6	06/02/15 12:05 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-6	06/02/15 12:05 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-09A	MW-16	06/02/15 12:30 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-09B	MW-16	06/02/15 12:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-16	06/02/15 12:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-16	06/02/15 12:30 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-09C	MW-16	06/02/15 12:30 PM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-16	06/02/15 12:30 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-16	06/02/15 12:30 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-10A	MW-15	06/02/15 12:45 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-10B	MW-15	06/02/15 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-15	06/02/15 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-15	06/02/15 12:45 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-10C	MW-15	06/02/15 12:45 PM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-15	06/02/15 12:45 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-15	06/02/15 12:45 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-11A	MW-21	06/02/15 01:15 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-11B	MW-21	06/02/15 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-21	06/02/15 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-21	06/02/15 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-21	06/02/15 01:15 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-11C	MW-21	06/02/15 01:15 PM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-21	06/02/15 01:15 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-21	06/02/15 01:15 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-21	06/02/15 01:15 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506063-12A	MW-14	06/02/15 01:30 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
	MW-14	06/02/15 01:30 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-12B	MW-14	06/02/15 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-14	06/02/15 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-14	06/02/15 01:30 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-12C	MW-14	06/02/15 01:30 PM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-14	06/02/15 01:30 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-14	06/02/15 01:30 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-14	06/02/15 01:30 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-13A	MW-8	06/02/15 02:00 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-13B	MW-8	06/02/15 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-8	06/02/15 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-8	06/02/15 02:00 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-13C	MW-8	06/02/15 02:00 PM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-8	06/02/15 02:00 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-8	06/02/15 02:00 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-14A	MW-9	06/02/15 02:30 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-14B	MW-9	06/02/15 02:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-9	06/02/15 02:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-9	06/02/15 02:30 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-14C	MW-9	06/02/15 02:30 PM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967
	MW-9	06/02/15 02:30 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-9	06/02/15 02:30 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933
1506063-15A	MW-10	06/02/15 03:00 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/09/15 10:37 AM	69946
1506063-15B	MW-10	06/02/15 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-10	06/02/15 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/08/15 09:42 AM	69936
	MW-10	06/02/15 03:00 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/08/15 01:33 PM	69942
1506063-15C	MW-10	06/02/15 03:00 PM	Aqueous	M2320 B	Alkalinity Preparation	06/10/15 08:56 AM	69967

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506063-15C	MW-10	06/02/15 03:00 PM	Aqueous	E300	Anion Preparation	06/09/15 08:19 AM	69943
	MW-10	06/02/15 03:00 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69933

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506063-01A	MW-30	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 11:23 AM	GC8_150609A
1506063-01B	MW-30	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 12:36 PM	CETAC2_HG_150609A
	MW-30	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	500	06/09/15 07:15 PM	ICP-MS3_150609B
	MW-30	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 10:33 PM	ICP-MS3_150609B
1506063-01C	MW-30	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 10:42 AM	TITRATOR_150610B
	MW-30	Aqueous	E300	Anions by IC method - Water	69930	10	06/08/15 02:24 PM	IC2_150608A
	MW-30	Aqueous	E300	Anions by IC method - Water	69930	1000	06/08/15 03:15 PM	IC2_150608A
	MW-30	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-02A	MW-18	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 11:46 AM	GC8_150609A
1506063-02B	MW-18	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 12:48 PM	CETAC2_HG_150609A
	MW-18	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	500	06/09/15 07:21 PM	ICP-MS3_150609B
	MW-18	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 10:39 PM	ICP-MS3_150609B
	MW-18	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	250	06/15/15 01:09 PM	ICP-MS4_150615A
1506063-02C	MW-18	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 10:57 AM	TITRATOR_150610B
	MW-18	Aqueous	E300	Anions by IC method - Water	69930	100	06/08/15 02:38 PM	IC2_150608A
	MW-18	Aqueous	E300	Anions by IC method - Water	69930	1000	06/08/15 03:29 PM	IC2_150608A
	MW-18	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-03A	MW-19	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 12:53 PM	GC8_150609A
1506063-03B	MW-19	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 12:50 PM	CETAC2_HG_150609A
	MW-19	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	500	06/09/15 07:27 PM	ICP-MS3_150609B
	MW-19	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	10	06/09/15 10:45 PM	ICP-MS3_150609B
1506063-03C	MW-19	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 11:10 AM	TITRATOR_150610B
	MW-19	Aqueous	E300	Anions by IC method - Water	69943	100	06/09/15 09:32 AM	IC2_150609A
	MW-19	Aqueous	E300	Anions by IC method - Water	69943	1000	06/09/15 01:52 PM	IC2_150609A
	MW-19	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-04A	MW-20	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 01:16 PM	GC8_150609A

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506063-04B	MW-20	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 12:52 PM	CETAC2_HG_150609A
	MW-20	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	10	06/09/15 05:33 PM	ICP-MS3_150609B
	MW-20	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	500	06/09/15 07:03 PM	ICP-MS3_150609B
1506063-04C	MW-20	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 11:25 AM	TITRATOR_150610B
	MW-20	Aqueous	E300	Anions by IC method - Water	69943	100	06/09/15 09:50 AM	IC2_150609A
	MW-20	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-05A	MW-1	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 01:39 PM	GC8_150609A
1506063-05B	MW-1	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 12:55 PM	CETAC2_HG_150609A
	MW-1	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	100	06/09/15 07:33 PM	ICP-MS3_150609B
	MW-1	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 10:51 PM	ICP-MS3_150609B
1506063-05C	MW-1	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 11:36 AM	TITRATOR_150610B
	MW-1	Aqueous	E300	Anions by IC method - Water	69943	100	06/09/15 10:04 AM	IC2_150609A
	MW-1	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-06A	MW-7	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 02:02 PM	GC8_150609A
1506063-06B	MW-7	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 12:57 PM	CETAC2_HG_150609A
	MW-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	50	06/09/15 07:39 PM	ICP-MS3_150609B
	MW-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 10:57 PM	ICP-MS3_150609B
1506063-06C	MW-7	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 11:45 AM	TITRATOR_150610B
	MW-7	Aqueous	E300	Anions by IC method - Water	69943	10	06/09/15 10:19 AM	IC2_150609A
	MW-7	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-07A	MW-5	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 02:24 PM	GC8_150609A
1506063-07B	MW-5	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 12:59 PM	CETAC2_HG_150609A
	MW-5	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	50	06/09/15 07:45 PM	ICP-MS3_150609B
	MW-5	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 11:03 PM	ICP-MS3_150609B
1506063-07C	MW-5	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 12:01 PM	TITRATOR_150610B
	MW-5	Aqueous	E300	Anions by IC method - Water	69943	10	06/09/15 10:33 AM	IC2_150609A

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506063-07C	MW-5	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-08A	MW-6	Aqueous	SW8021B	Volatile Organics by GC	69946	10	06/09/15 02:47 PM	GC8_150609A
1506063-08B	MW-6	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 01:01 PM	CETAC2_HG_150609A
	MW-6	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	50	06/09/15 07:51 PM	ICP-MS3_150609B
	MW-6	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 11:09 PM	ICP-MS3_150609B
1506063-08C	MW-6	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 12:15 PM	TITRATOR_150610B
	MW-6	Aqueous	E300	Anions by IC method - Water	69943	1	06/09/15 01:23 PM	IC2_150609A
	MW-6	Aqueous	E300	Anions by IC method - Water	69943	100	06/09/15 01:38 PM	IC2_150609A
	MW-6	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-09A	MW-16	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 03:10 PM	GC8_150609A
1506063-09B	MW-16	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 01:04 PM	CETAC2_HG_150609A
	MW-16	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	50	06/09/15 07:57 PM	ICP-MS3_150609B
	MW-16	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 11:15 PM	ICP-MS3_150609B
1506063-09C	MW-16	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 12:24 PM	TITRATOR_150610B
	MW-16	Aqueous	E300	Anions by IC method - Water	69943	10	06/09/15 11:03 AM	IC2_150609A
	MW-16	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-10A	MW-15	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 03:32 PM	GC8_150609A
1506063-10B	MW-15	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 01:06 PM	CETAC2_HG_150609A
	MW-15	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	50	06/09/15 08:03 PM	ICP-MS3_150609B
	MW-15	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 11:21 PM	ICP-MS3_150609B
1506063-10C	MW-15	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 12:57 PM	TITRATOR_150610B
	MW-15	Aqueous	E300	Anions by IC method - Water	69943	100	06/09/15 11:17 AM	IC2_150609A
	MW-15	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-11A	MW-21	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 04:40 PM	GC8_150609A
1506063-11B	MW-21	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 01:13 PM	CETAC2_HG_150609A
	MW-21	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	500	06/09/15 09:09 PM	ICP-MS3_150609B

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506063-11B	MW-21	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/09/15 11:26 PM	ICP-MS3_150609B
	MW-21	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	10	06/12/15 05:43 PM	ICP-MS4_150612C
1506063-11C	MW-21	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 01:12 PM	TITRATOR_150610B
	MW-21	Aqueous	E300	Anions by IC method - Water	69943	10	06/09/15 11:32 AM	IC2_150609A
	MW-21	Aqueous	E300	Anions by IC method - Water	69943	1000	06/09/15 02:07 PM	IC2_150609A
	MW-21	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-12A	MW-14	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 05:03 PM	GC8_150609A
	MW-14	Aqueous	SW8021B	Volatile Organics by GC	69946	5	06/10/15 11:26 AM	GC8_150609A
1506063-12B	MW-14	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 01:15 PM	CETAC2_HG_150609A
	MW-14	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1000	06/09/15 09:15 PM	ICP-MS3_150609B
	MW-14	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	10	06/10/15 12:44 AM	ICP-MS3_150609B
1506063-12C	MW-14	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 01:33 PM	TITRATOR_150610B
	MW-14	Aqueous	E300	Anions by IC method - Water	69943	100	06/09/15 11:47 AM	IC2_150609A
	MW-14	Aqueous	E300	Anions by IC method - Water	69943	1000	06/09/15 02:22 PM	IC2_150609A
	MW-14	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-13A	MW-8	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 05:26 PM	GC8_150609A
1506063-13B	MW-8	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 01:17 PM	CETAC2_HG_150609A
	MW-8	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	50	06/09/15 09:21 PM	ICP-MS3_150609B
	MW-8	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/10/15 12:50 AM	ICP-MS3_150609B
1506063-13C	MW-8	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 01:39 PM	TITRATOR_150610B
	MW-8	Aqueous	E300	Anions by IC method - Water	69943	100	06/09/15 03:51 PM	IC2_150609A
	MW-8	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-14A	MW-9	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 05:49 PM	GC8_150609A
1506063-14B	MW-9	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 01:20 PM	CETAC2_HG_150609A
	MW-9	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	10	06/09/15 09:27 PM	ICP-MS3_150609B
	MW-9	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/10/15 12:56 AM	ICP-MS3_150609B

Lab Order: 1506063
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506063-14C	MW-9	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 01:46 PM	TITRATOR_150610B
	MW-9	Aqueous	E300	Anions by IC method - Water	69943	10	06/09/15 04:39 PM	IC2_150609A
	MW-9	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A
1506063-15A	MW-10	Aqueous	SW8021B	Volatile Organics by GC	69946	1	06/09/15 06:12 PM	GC8_150609A
1506063-15B	MW-10	Aqueous	SW7470A	Mercury Total: Aqueous	69942	1	06/09/15 01:22 PM	CETAC2_HG_150609A
	MW-10	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	50	06/09/15 09:33 PM	ICP-MS3_150609B
	MW-10	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69936	1	06/10/15 01:02 AM	ICP-MS3_150609B
1506063-15C	MW-10	Aqueous	M2320 B	Alkalinity	69967	1	06/10/15 01:52 PM	TITRATOR_150610B
	MW-10	Aqueous	E300	Anions by IC method - Water	69943	10	06/09/15 04:20 PM	IC2_150609A
	MW-10	Aqueous	M2540C	Total Dissolved Solids	69933	1	06/09/15 09:00 AM	WC_150608A

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-30
Project:	Targa Eunice	**Lab ID:**	1506063-01
Project No:	2-0103	**Collection Date:**	06/02/15 09:15 AM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 11:23 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 11:23 AM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 11:23 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 11:23 AM
Surr: a,a,a-Trifluorotoluene	96.8	0	87-113		%REC	1	06/09/15 11:23 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 12:36 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0185	0.00200	0.00500		mg/L	1	06/09/15 10:33 PM
Barium	0.0426	0.00300	0.0100		mg/L	1	06/09/15 10:33 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/09/15 10:33 PM
Calcium	686	50.0	150		mg/L	500	06/09/15 07:15 PM
Chromium	0.00928	0.00200	0.00500		mg/L	1	06/09/15 10:33 PM
Lead	0.00238	0.000300	0.00100		mg/L	1	06/09/15 10:33 PM
Magnesium	330	50.0	150		mg/L	500	06/09/15 07:15 PM
Potassium	ND	50.0	150		mg/L	500	06/09/15 07:15 PM
Selenium	0.0256	0.00200	0.00500		mg/L	1	06/09/15 10:33 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 10:33 PM
Sodium	2240	50.0	150		mg/L	500	06/09/15 07:15 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	4980	300	1000		mg/L	1000	06/08/15 03:15 PM
Sulfate	981	10.0	30.0		mg/L	10	06/08/15 02:24 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	192	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 10:42 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 10:42 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 10:42 AM
Alkalinity, Total (As CaCO3)	192	20.0	20.0		mg/L @ pH 4.52	1	06/10/15 10:42 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	11000	200	200		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-18
Project:	Targa Eunice	**Lab ID:**	1506063-02
Project No:	2-0103	**Collection Date:**	06/02/15 09:30 AM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.0111	0.000800	0.00200		mg/L	1	06/09/15 11:46 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 11:46 AM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 11:46 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 11:46 AM
Surr: a,a,a-Trifluorotoluene	97.2	0	87-113		%REC	1	06/09/15 11:46 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 12:48 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00829	0.00200	0.00500		mg/L	1	06/09/15 10:39 PM
Barium	0.156	0.00300	0.0100		mg/L	1	06/09/15 10:39 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/09/15 10:39 PM
Calcium	1360	25.0	75.0		mg/L	250	06/15/15 01:09 PM
Chromium	0.00329	0.00200	0.00500	J	mg/L	1	06/09/15 10:39 PM
Lead	0.00139	0.000300	0.00100		mg/L	1	06/09/15 10:39 PM
Magnesium	651	25.0	75.0		mg/L	250	06/15/15 01:09 PM
Potassium	31.4	25.0	75.0	J	mg/L	250	06/15/15 01:09 PM
Selenium	0.00482	0.00200	0.00500	J	mg/L	1	06/09/15 10:39 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 10:39 PM
Sodium	4110	25.0	75.0		mg/L	250	06/15/15 01:09 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	11200	300	1000		mg/L	1000	06/08/15 03:29 PM
Sulfate	564	100	300		mg/L	100	06/08/15 02:38 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	429	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 10:57 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 10:57 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 10:57 AM
Alkalinity, Total (As CaCO3)	429	20.0	20.0		mg/L @ pH 4.54	1	06/10/15 10:57 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	22800	200	200		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-19
Project:	Targa Eunice	**Lab ID:**	1506063-03
Project No:	2-0103	**Collection Date:**	06/02/15 10:15 AM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.0173	0.000800	0.00200		mg/L	1	06/09/15 12:53 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 12:53 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 12:53 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 12:53 PM
Surr: a,a,a-Trifluorotoluene	95.5	0	87-113		%REC	1	06/09/15 12:53 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	0.000157	0.0000800	0.000200	J	mg/L	1	06/09/15 12:50 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	ND	0.0200	0.0500		mg/L	10	06/09/15 10:45 PM
Barium	0.0630	0.0300	0.100	J	mg/L	10	06/09/15 10:45 PM
Cadmium	ND	0.00300	0.0100		mg/L	10	06/09/15 10:45 PM
Calcium	1040	50.0	150		mg/L	500	06/09/15 07:27 PM
Chromium	ND	0.0200	0.0500		mg/L	10	06/09/15 10:45 PM
Lead	ND	0.00300	0.0100		mg/L	10	06/09/15 10:45 PM
Magnesium	514	50.0	150		mg/L	500	06/09/15 07:27 PM
Potassium	41.2	1.00	3.00		mg/L	10	06/09/15 10:45 PM
Selenium	ND	0.0200	0.0500		mg/L	10	06/09/15 10:45 PM
Silver	ND	0.0100	0.0200		mg/L	10	06/09/15 10:45 PM
Sodium	6060	50.0	150		mg/L	500	06/09/15 07:27 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	13300	300	1000		mg/L	1000	06/09/15 01:52 PM
Sulfate	983	100	300		mg/L	100	06/09/15 09:32 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	398	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:10 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:10 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:10 AM
Alkalinity, Total (As CaCO3)	398	20.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:10 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	25000	1000	1000		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-20
Project:	Targa Eunice	**Lab ID:**	1506063-04
Project No:	2-0103	**Collection Date:**	06/02/15 10:30 AM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 01:16 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 01:16 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 01:16 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 01:16 PM
Surr: a,a,a-Trifluorotoluene	96.6	0	87-113		%REC	1	06/09/15 01:16 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 12:52 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0475	0.0200	0.0500	J	mg/L	10	06/09/15 05:33 PM
Barium	ND	0.0300	0.100		mg/L	10	06/09/15 05:33 PM
Cadmium	ND	0.00300	0.0100		mg/L	10	06/09/15 05:33 PM
Calcium	51.7	1.00	3.00		mg/L	10	06/09/15 05:33 PM
Chromium	ND	0.0200	0.0500		mg/L	10	06/09/15 05:33 PM
Lead	ND	0.00300	0.0100		mg/L	10	06/09/15 05:33 PM
Magnesium	24.8	1.00	3.00		mg/L	10	06/09/15 05:33 PM
Potassium	46.4	1.00	3.00		mg/L	10	06/09/15 05:33 PM
Selenium	ND	0.0200	0.0500		mg/L	10	06/09/15 05:33 PM
Silver	ND	0.0100	0.0200		mg/L	10	06/09/15 05:33 PM
Sodium	2520	50.0	150		mg/L	500	06/09/15 07:03 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	3180	30.0	100		mg/L	100	06/09/15 09:50 AM
Sulfate	753	100	300		mg/L	100	06/09/15 09:50 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	560	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:25 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:25 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:25 AM
Alkalinity, Total (As CaCO3)	560	20.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:25 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	6620	200	200		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-1
Project:	Targa Eunice	**Lab ID:**	1506063-05
Project No:	2-0103	**Collection Date:**	06/02/15 11:00 AM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 01:39 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 01:39 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 01:39 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 01:39 PM
Surr: a,a,a-Trifluorotoluene	95.5	0	87-113		%REC	1	06/09/15 01:39 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 12:55 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00545	0.00200	0.00500		mg/L	1	06/09/15 10:51 PM
Barium	0.0728	0.00300	0.0100		mg/L	1	06/09/15 10:51 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/09/15 10:51 PM
Calcium	389	10.0	30.0		mg/L	100	06/09/15 07:33 PM
Chromium	0.0256	0.00200	0.00500		mg/L	1	06/09/15 10:51 PM
Lead	0.00404	0.000300	0.00100		mg/L	1	06/09/15 10:51 PM
Magnesium	121	10.0	30.0		mg/L	100	06/09/15 07:33 PM
Potassium	11.1	0.100	0.300		mg/L	1	06/09/15 10:51 PM
Selenium	0.00396	0.00200	0.00500	J	mg/L	1	06/09/15 10:51 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 10:51 PM
Sodium	290	10.0	30.0		mg/L	100	06/09/15 07:33 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	839	30.0	100		mg/L	100	06/09/15 10:04 AM
Sulfate	359	100	300		mg/L	100	06/09/15 10:04 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	379	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 11:36 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 11:36 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 11:36 AM
Alkalinity, Total (As CaCO3)	379	20.0	20.0		mg/L @ pH 4.53	1	06/10/15 11:36 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	2630	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-7
Project:	Targa Eunice	**Lab ID:**	1506063-06
Project No:	2-0103	**Collection Date:**	06/02/15 11:30 AM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 02:02 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 02:02 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 02:02 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 02:02 PM
Surr: a,a,a-Trifluorotoluene	95.2	0	87-113		%REC	1	06/09/15 02:02 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 12:57 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00900	0.00200	0.00500		mg/L	1	06/09/15 10:57 PM
Barium	0.0430	0.00300	0.0100		mg/L	1	06/09/15 10:57 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/09/15 10:57 PM
Calcium	95.8	5.00	15.0		mg/L	50	06/09/15 07:39 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/09/15 10:57 PM
Lead	0.000364	0.000300	0.00100	J	mg/L	1	06/09/15 10:57 PM
Magnesium	29.0	5.00	15.0		mg/L	50	06/09/15 07:39 PM
Potassium	6.77	0.100	0.300		mg/L	1	06/09/15 10:57 PM
Selenium	0.00964	0.00200	0.00500		mg/L	1	06/09/15 10:57 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 10:57 PM
Sodium	241	5.00	15.0		mg/L	50	06/09/15 07:39 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	163	3.00	10.0		mg/L	10	06/09/15 10:19 AM
Sulfate	298	10.0	30.0		mg/L	10	06/09/15 10:19 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	329	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:45 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:45 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:45 AM
Alkalinity, Total (As CaCO3)	329	20.0	20.0		mg/L @ pH 4.54	1	06/10/15 11:45 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	1190	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-5
Project:	Targa Eunice	**Lab ID:**	1506063-07
Project No:	2-0103	**Collection Date:**	06/02/15 11:45 AM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 02:24 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 02:24 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 02:24 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 02:24 PM
Surr: a,a,a-Trifluorotoluene	96.5	0	87-113		%REC	1	06/09/15 02:24 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 12:59 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0155	0.00200	0.00500		mg/L	1	06/09/15 11:03 PM
Barium	0.280	0.00300	0.0100		mg/L	1	06/09/15 11:03 PM
Cadmium	0.000425	0.000300	0.00100	J	mg/L	1	06/09/15 11:03 PM
Calcium	380	5.00	15.0		mg/L	50	06/09/15 07:45 PM
Chromium	0.00736	0.00200	0.00500		mg/L	1	06/09/15 11:03 PM
Lead	0.0125	0.000300	0.00100		mg/L	1	06/09/15 11:03 PM
Magnesium	47.9	5.00	15.0		mg/L	50	06/09/15 07:45 PM
Potassium	12.5	0.100	0.300		mg/L	1	06/09/15 11:03 PM
Selenium	0.00319	0.00200	0.00500	J	mg/L	1	06/09/15 11:03 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 11:03 PM
Sodium	203	5.00	15.0		mg/L	50	06/09/15 07:45 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	187	3.00	10.0		mg/L	10	06/09/15 10:33 AM
Sulfate	151	10.0	30.0		mg/L	10	06/09/15 10:33 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	621	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 12:01 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 12:01 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 12:01 PM
Alkalinity, Total (As CaCO3)	621	20.0	20.0		mg/L @ pH 4.53	1	06/10/15 12:01 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	1100	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-6
Project:	Targa Eunice	**Lab ID:**	1506063-08
Project No:	2-0103	**Collection Date:**	06/02/15 12:05 PM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.802	0.00800	0.0200		mg/L	10	06/09/15 02:47 PM
Ethylbenzene	0.173	0.0200	0.0600		mg/L	10	06/09/15 02:47 PM
Toluene	ND	0.0200	0.0600		mg/L	10	06/09/15 02:47 PM
Xylenes, Total	ND	0.0300	0.0900		mg/L	10	06/09/15 02:47 PM
Surr: a,a,a-Trifluorotoluene	95.4	0	87-113		%REC	10	06/09/15 02:47 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 01:01 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0245	0.00200	0.00500		mg/L	1	06/09/15 11:09 PM
Barium	1.30	0.00300	0.0100		mg/L	1	06/09/15 11:09 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/09/15 11:09 PM
Calcium	126	5.00	15.0		mg/L	50	06/09/15 07:51 PM
Chromium	0.00525	0.00200	0.00500		mg/L	1	06/09/15 11:09 PM
Lead	ND	0.000300	0.00100		mg/L	1	06/09/15 11:09 PM
Magnesium	66.7	5.00	15.0		mg/L	50	06/09/15 07:51 PM
Potassium	5.86	0.100	0.300		mg/L	1	06/09/15 11:09 PM
Selenium	ND	0.00200	0.00500		mg/L	1	06/09/15 11:09 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 11:09 PM
Sodium	458	5.00	15.0		mg/L	50	06/09/15 07:51 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	872	30.0	100		mg/L	100	06/09/15 01:38 PM
Sulfate	29.9	1.00	3.00		mg/L	1	06/09/15 01:23 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	476	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 12:15 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 12:15 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 12:15 PM
Alkalinity, Total (As CaCO3)	476	20.0	20.0		mg/L @ pH 4.52	1	06/10/15 12:15 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	2090	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-16
Project:	Targa Eunice	**Lab ID:**	1506063-09
Project No:	2-0103	**Collection Date:**	06/02/15 12:30 PM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 03:10 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 03:10 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 03:10 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 03:10 PM
Surr: a,a,a-Trifluorotoluene	94.0	0	87-113		%REC	1	06/09/15 03:10 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 01:04 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00544	0.00200	0.00500		mg/L	1	06/09/15 11:15 PM
Barium	0.0924	0.00300	0.0100		mg/L	1	06/09/15 11:15 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/09/15 11:15 PM
Calcium	137	5.00	15.0		mg/L	50	06/09/15 07:57 PM
Chromium	0.00222	0.00200	0.00500	J	mg/L	1	06/09/15 11:15 PM
Lead	0.000648	0.000300	0.00100	J	mg/L	1	06/09/15 11:15 PM
Magnesium	48.8	5.00	15.0		mg/L	50	06/09/15 07:57 PM
Potassium	7.64	0.100	0.300		mg/L	1	06/09/15 11:15 PM
Selenium	0.00680	0.00200	0.00500		mg/L	1	06/09/15 11:15 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 11:15 PM
Sodium	184	5.00	15.0		mg/L	50	06/09/15 07:57 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	244	3.00	10.0		mg/L	10	06/09/15 11:03 AM
Sulfate	267	10.0	30.0		mg/L	10	06/09/15 11:03 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	361	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 12:24 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 12:24 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 12:24 PM
Alkalinity, Total (As CaCO3)	361	20.0	20.0		mg/L @ pH 4.53	1	06/10/15 12:24 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	1490	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-15
Project:	Targa Eunice	**Lab ID:**	1506063-10
Project No:	2-0103	**Collection Date:**	06/02/15 12:45 PM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 03:32 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 03:32 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 03:32 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 03:32 PM
Surr: a,a,a-Trifluorotoluene	92.6	0	87-113		%REC	1	06/09/15 03:32 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 01:06 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0127	0.00200	0.00500		mg/L	1	06/09/15 11:21 PM
Barium	0.0371	0.00300	0.0100		mg/L	1	06/09/15 11:21 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/09/15 11:21 PM
Calcium	119	5.00	15.0		mg/L	50	06/09/15 08:03 PM
Chromium	0.00320	0.00200	0.00500	J	mg/L	1	06/09/15 11:21 PM
Lead	0.00161	0.000300	0.00100		mg/L	1	06/09/15 11:21 PM
Magnesium	41.2	5.00	15.0		mg/L	50	06/09/15 08:03 PM
Potassium	10.1	0.100	0.300		mg/L	1	06/09/15 11:21 PM
Selenium	0.00222	0.00200	0.00500	J	mg/L	1	06/09/15 11:21 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 11:21 PM
Sodium	486	5.00	15.0		mg/L	50	06/09/15 08:03 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	391	30.0	100		mg/L	100	06/09/15 11:17 AM
Sulfate	305	100	300		mg/L	100	06/09/15 11:17 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	657	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 12:57 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 12:57 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 12:57 PM
Alkalinity, Total (As CaCO3)	657	20.0	20.0		mg/L @ pH 4.54	1	06/10/15 12:57 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	1720	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-21
Project:	Targa Eunice	**Lab ID:**	1506063-11
Project No:	2-0103	**Collection Date:**	06/02/15 01:15 PM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 04:40 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 04:40 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 04:40 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 04:40 PM
Surr: a,a,a-Trifluorotoluene	92.3	0	87-113		%REC	1	06/09/15 04:40 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 01:13 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0157	0.00200	0.00500		mg/L	1	06/09/15 11:26 PM
Barium	0.116	0.00300	0.0100		mg/L	1	06/09/15 11:26 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/09/15 11:26 PM
Calcium	449	50.0	150		mg/L	500	06/09/15 09:09 PM
Chromium	0.00420	0.00200	0.00500	J	mg/L	1	06/09/15 11:26 PM
Lead	0.00209	0.000300	0.00100		mg/L	1	06/09/15 11:26 PM
Magnesium	100	50.0	150	J	mg/L	500	06/09/15 09:09 PM
Potassium	51.9	1.00	3.00		mg/L	10	06/12/15 05:43 PM
Selenium	0.0261	0.00200	0.00500		mg/L	1	06/09/15 11:26 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/09/15 11:26 PM
Sodium	2630	50.0	150		mg/L	500	06/09/15 09:09 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	4620	300	1000		mg/L	1000	06/09/15 02:07 PM
Sulfate	342	10.0	30.0		mg/L	10	06/09/15 11:32 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	519	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 01:12 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 01:12 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 01:12 PM
Alkalinity, Total (As CaCO3)	519	20.0	20.0		mg/L @ pH 4.54	1	06/10/15 01:12 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	8200	200	200		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-14
Project:	Targa Eunice	**Lab ID:**	1506063-12
Project No:	2-0103	**Collection Date:**	06/02/15 01:30 PM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.639	0.00400	0.0100		mg/L	5	06/10/15 11:26 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 05:03 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 05:03 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 05:03 PM
Surr: a,a,a-Trifluorotoluene	91.7	0	87-113		%REC	5	06/10/15 11:26 AM
Surr: a,a,a-Trifluorotoluene	93.6	0	87-113		%REC	1	06/09/15 05:03 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 01:15 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0440	0.0200	0.0500	J	mg/L	10	06/10/15 12:44 AM
Barium	0.265	0.0300	0.100		mg/L	10	06/10/15 12:44 AM
Cadmium	ND	0.00300	0.0100		mg/L	10	06/10/15 12:44 AM
Calcium	455	100	300		mg/L	1000	06/09/15 09:15 PM
Chromium	ND	0.0200	0.0500		mg/L	10	06/10/15 12:44 AM
Lead	ND	0.00300	0.0100		mg/L	10	06/10/15 12:44 AM
Magnesium	301	100	300		mg/L	1000	06/09/15 09:15 PM
Potassium	119	1.00	3.00		mg/L	10	06/10/15 12:44 AM
Selenium	ND	0.0200	0.0500		mg/L	10	06/10/15 12:44 AM
Silver	ND	0.0100	0.0200		mg/L	10	06/10/15 12:44 AM
Sodium	13100	100	300		mg/L	1000	06/09/15 09:15 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	24500	300	1000		mg/L	1000	06/09/15 02:22 PM
Sulfate	645	100	300		mg/L	100	06/09/15 11:47 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	675	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 01:33 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 01:33 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/10/15 01:33 PM
Alkalinity, Total (As CaCO3)	675	20.0	20.0		mg/L @ pH 4.54	1	06/10/15 01:33 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	37700	1000	1000		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-8
Project:	Targa Eunice	**Lab ID:**	1506063-13
Project No:	2-0103	**Collection Date:**	06/02/15 02:00 PM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 05:26 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 05:26 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 05:26 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 05:26 PM
Surr: a,a,a-Trifluorotoluene	91.5	0	87-113		%REC	1	06/09/15 05:26 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 01:17 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0182	0.00200	0.00500		mg/L	1	06/10/15 12:50 AM
Barium	0.0639	0.00300	0.0100		mg/L	1	06/10/15 12:50 AM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/10/15 12:50 AM
Calcium	166	5.00	15.0		mg/L	50	06/09/15 09:21 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/10/15 12:50 AM
Lead	0.00386	0.000300	0.00100		mg/L	1	06/10/15 12:50 AM
Magnesium	50.6	5.00	15.0		mg/L	50	06/09/15 09:21 PM
Potassium	8.44	0.100	0.300		mg/L	1	06/10/15 12:50 AM
Selenium	0.0164	0.00200	0.00500		mg/L	1	06/10/15 12:50 AM
Silver	ND	0.00100	0.00200		mg/L	1	06/10/15 12:50 AM
Sodium	378	5.00	15.0		mg/L	50	06/09/15 09:21 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	592	30.0	100		mg/L	100	06/09/15 03:51 PM
Sulfate	319	100	300		mg/L	100	06/09/15 03:51 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	192	10.0	20.0		mg/L @ pH 4.5	1	06/10/15 01:39 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.5	1	06/10/15 01:39 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.5	1	06/10/15 01:39 PM
Alkalinity, Total (As CaCO3)	192	20.0	20.0		mg/L @ pH 4.5	1	06/10/15 01:39 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	1570	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-9
Project:	Targa Eunice	**Lab ID:**	1506063-14
Project No:	2-0103	**Collection Date:**	06/02/15 02:30 PM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 05:49 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 05:49 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 05:49 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 05:49 PM
Surr: a,a,a-Trifluorotoluene	91.3	0	87-113		%REC	1	06/09/15 05:49 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 01:20 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0107	0.00200	0.00500		mg/L	1	06/10/15 12:56 AM
Barium	0.0986	0.00300	0.0100		mg/L	1	06/10/15 12:56 AM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/10/15 12:56 AM
Calcium	241	1.00	3.00		mg/L	10	06/09/15 09:27 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/10/15 12:56 AM
Lead	0.00456	0.000300	0.00100		mg/L	1	06/10/15 12:56 AM
Magnesium	44.2	1.00	3.00		mg/L	10	06/09/15 09:27 PM
Potassium	6.05	0.100	0.300		mg/L	1	06/10/15 12:56 AM
Selenium	0.00316	0.00200	0.00500	J	mg/L	1	06/10/15 12:56 AM
Silver	ND	0.00100	0.00200		mg/L	1	06/10/15 12:56 AM
Sodium	113	1.00	3.00		mg/L	10	06/09/15 09:27 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	287	3.00	10.0		mg/L	10	06/09/15 04:39 PM
Sulfate	80.3	10.0	30.0		mg/L	10	06/09/15 04:39 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	235	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 01:46 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 01:46 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	06/10/15 01:46 PM
Alkalinity, Total (As CaCO3)	235	20.0	20.0		mg/L @ pH 4.52	1	06/10/15 01:46 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	863	10.0	10.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-10
Project:	Targa Eunice	**Lab ID:**	1506063-15
Project No:	2-0103	**Collection Date:**	06/02/15 03:00 PM
Lab Order:	1506063	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/09/15 06:12 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/09/15 06:12 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/09/15 06:12 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/09/15 06:12 PM
Surr: a,a,a-Trifluorotoluene	90.1	0	87-113		%REC	1	06/09/15 06:12 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 01:22 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00821	0.00200	0.00500		mg/L	1	06/10/15 01:02 AM
Barium	0.144	0.00300	0.0100		mg/L	1	06/10/15 01:02 AM
Cadmium	0.000447	0.000300	0.00100	J	mg/L	1	06/10/15 01:02 AM
Calcium	178	5.00	15.0		mg/L	50	06/09/15 09:33 PM
Chromium	0.00619	0.00200	0.00500		mg/L	1	06/10/15 01:02 AM
Lead	0.00158	0.000300	0.00100		mg/L	1	06/10/15 01:02 AM
Magnesium	39.6	5.00	15.0		mg/L	50	06/09/15 09:33 PM
Potassium	4.92	0.100	0.300		mg/L	1	06/10/15 01:02 AM
Selenium	0.00448	0.00200	0.00500	J	mg/L	1	06/10/15 01:02 AM
Silver	ND	0.00100	0.00200		mg/L	1	06/10/15 01:02 AM
Sodium	57.9	5.00	15.0		mg/L	50	06/09/15 09:33 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	257	3.00	10.0		mg/L	10	06/09/15 04:20 PM
Sulfate	118	10.0	30.0		mg/L	10	06/09/15 04:20 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	182	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 01:52 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 01:52 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/10/15 01:52 PM
Alkalinity, Total (As CaCO3)	182	20.0	20.0		mg/L @ pH 4.53	1	06/10/15 01:52 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	1020	10.0	10.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_150609A

The QC data in batch 69946 applies to the following samples: 1506063-01A, 1506063-02A, 1506063-03A, 1506063-04A, 1506063-05A, 1506063-06A, 1506063-07A, 1506063-08A, 1506063-09A, 1506063-10A, 1506063-11A, 1506063-12A, 1506063-13A, 1506063-14A, 1506063-15A

Sample ID **LCS-69946** Batch ID: **69946** TestNo: **SW8021B** Units: **mg/L**
SampType: **LCS** Run ID: **GC8_150609A** Analysis Date: **6/9/2015 10:37:47 AM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0461	0.00200	0.0464	0	99.4	81	125			
Toluene	0.0463	0.00600	0.0464	0	99.8	84	123			
Ethylbenzene	0.0471	0.00600	0.0464	0	102	83	119			
Xylenes, Total	0.145	0.00900	0.139	0	104	81	117			
Surr: a,a,a-Trifluorotoluene	193		200.0		96.6	87	113			

Sample ID **MB-69946** Batch ID: **69946** TestNo: **SW8021B** Units: **mg/L**
SampType: **MBLK** Run ID: **GC8_150609A** Analysis Date: **6/9/2015 11:00:34 AM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00600								
Ethylbenzene	ND	0.00600								
Xylenes, Total	ND	0.00900								
Surr: a,a,a-Trifluorotoluene	194		200.0		97.1	87	113			

Sample ID **1506063-02AMS** Batch ID: **69946** TestNo: **SW8021B** Units: **mg/L**
SampType: **MS** Run ID: **GC8_150609A** Analysis Date: **6/9/2015 12:08:38 PM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0552	0.00200	0.0464	0.0111	95.2	81	125			
Toluene	0.0448	0.00600	0.0464	0	96.5	84	123			
Ethylbenzene	0.0455	0.00600	0.0464	0	98.1	83	119			
Xylenes, Total	0.140	0.00900	0.139	0	100	81	117			
Surr: a,a,a-Trifluorotoluene	191		200.0		95.4	87	113			

Sample ID **1506063-02AMSD** Batch ID: **69946** TestNo: **SW8021B** Units: **mg/L**
SampType: **MSD** Run ID: **GC8_150609A** Analysis Date: **6/9/2015 12:31:16 PM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0565	0.00200	0.0464	0.0111	97.9	81	125	2.19	20	
Toluene	0.0450	0.00600	0.0464	0	97.0	84	123	0.555	20	
Ethylbenzene	0.0457	0.00600	0.0464	0	98.5	83	119	0.487	20	
Xylenes, Total	0.141	0.00900	0.139	0	101	81	117	1.05	20	
Surr: a,a,a-Trifluorotoluene	191		200.0		95.5	87	113	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_150609A

Sample ID **MB-150610**	Batch ID: **69946**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GC8_150609A**	Analysis Date: **6/10/2015 10:18:08 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00600								
Ethylbenzene	ND	0.00600								
Xylenes, Total	ND	0.00900								
Surr: a,a,a-Trifluorotoluene	184		200.0		92.1	87	113			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_150609A

Sample ID **ICV-150609**	Batch ID: **R80069**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **ICV**	Run ID: **GC8_150609A**	Analysis Date: **6/9/2015 10:15:01 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0907	0.00200	0.0928	0	97.7	80	120			
Toluene	0.0915	0.00600	0.0928	0	98.6	80	120			
Ethylbenzene	0.0933	0.00600	0.0928	0	101	80	120			
Xylenes, Total	0.287	0.00900	0.278	0	103	80	120			
Surr: a,a,a-Trifluorotoluene	193		200.0		96.3	87	113			

Sample ID **CCV1-150609**	Batch ID: **R80069**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_150609A**	Analysis Date: **6/9/2015 4:18:14 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0459	0.00200	0.0464	0	98.9	80	120			
Toluene	0.0459	0.00600	0.0464	0	98.9	80	120			
Ethylbenzene	0.0471	0.00600	0.0464	0	101	80	120			
Xylenes, Total	0.144	0.00900	0.139	0	104	80	120			
Surr: a,a,a-Trifluorotoluene	186		200.0		93.0	87	113			

Sample ID **CCV2-150609**	Batch ID: **R80069**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_150609A**	Analysis Date: **6/9/2015 10:22:06 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0474	0.00200	0.0464	0	102	80	120			
Toluene	0.0471	0.00600	0.0464	0	101	80	120			
Ethylbenzene	0.0482	0.00600	0.0464	0	104	80	120			
Xylenes, Total	0.148	0.00900	0.139	0	107	80	120			
Surr: a,a,a-Trifluorotoluene	186		200.0		93.2	87	113			

Sample ID **CCV3-150609**	Batch ID: **R80069**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_150609A**	Analysis Date: **6/10/2015 2:54:50 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0461	0.00200	0.0464	0	99.3	80	120			
Toluene	0.0462	0.00600	0.0464	0	99.7	80	120			
Ethylbenzene	0.0471	0.00600	0.0464	0	101	80	120			
Xylenes, Total	0.145	0.00900	0.139	0	104	80	120			
Surr: a,a,a-Trifluorotoluene	184		200.0		92.1	87	113			

Sample ID **ICV-150610**	Batch ID: **R80069**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **ICV**	Run ID: **GC8_150609A**	Analysis Date: **6/10/2015 9:55:03 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0905	0.00200	0.0928	0	97.5	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_150609A

Sample ID **ICV-150610**	Batch ID: **R80069**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **ICV**	Run ID: **GC8_150609A**	Analysis Date: **6/10/2015 9:55:03 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.0916	0.00600	0.0928	0	98.7	80	120			
Ethylbenzene	0.0929	0.00600	0.0928	0	100	80	120			
Xylenes, Total	0.287	0.00900	0.278	0	103	80	120			
Surr: a,a,a-Trifluorotoluene	186		200.0		92.8	87	113			

Sample ID **CCV4-150610**	Batch ID: **R80069**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_150609A**	Analysis Date: **6/10/2015 4:11:34 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0491	0.00200	0.0464	0	106	80	120			
Toluene	0.0493	0.00600	0.0464	0	106	80	120			
Ethylbenzene	0.0501	0.00600	0.0464	0	108	80	120			
Xylenes, Total	0.154	0.00900	0.139	0	111	80	120			
Surr: a,a,a-Trifluorotoluene	185		200.0		92.5	87	113			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150609A

The QC data in batch 69942 applies to the following samples: 1506063-01B, 1506063-02B, 1506063-03B, 1506063-04B, 1506063-05B, 1506063-06B, 1506063-07B, 1506063-08B, 1506063-09B, 1506063-10B, 1506063-11B, 1506063-12B, 1506063-13B, 1506063-14B, 1506063-15B

Sample ID **MB-69942** Batch ID: **69942** TestNo: **SW7470A** Units: **mg/L**
SampType: **MBLK** Run ID: **CETAC2_HG_150609A** Analysis Date: **6/9/2015 12:30:10 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID **LCS-69942** Batch ID: **69942** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCS** Run ID: **CETAC2_HG_150609A** Analysis Date: **6/9/2015 12:32:26 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00211	0.000200	0.00200	0	106	85	115			

Sample ID **LCSD-69942** Batch ID: **69942** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCSD** Run ID: **CETAC2_HG_150609A** Analysis Date: **6/9/2015 12:34:42 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00203	0.000200	0.00200	0	102	85	115	3.86	15	

Sample ID **1506063-01B SD** Batch ID: **69942** TestNo: **SW7470A** Units: **mg/L**
SampType: **SD** Run ID: **CETAC2_HG_150609A** Analysis Date: **6/9/2015 12:39:15 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.00100	0	0				0	10	

Sample ID **1506063-01B PDS** Batch ID: **69942** TestNo: **SW7470A** Units: **mg/L**
SampType: **PDS** Run ID: **CETAC2_HG_150609A** Analysis Date: **6/9/2015 12:41:30 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00236	0.000200	0.00250	0	94.4	85	115			

Sample ID **1506063-01B MS** Batch ID: **69942** TestNo: **SW7470A** Units: **mg/L**
SampType: **MS** Run ID: **CETAC2_HG_150609A** Analysis Date: **6/9/2015 12:43:46 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00198	0.000200	0.00200	0	99.0	80	120			

Sample ID **1506063-01B MSD** Batch ID: **69942** TestNo: **SW7470A** Units: **mg/L**
SampType: **MSD** Run ID: **CETAC2_HG_150609A** Analysis Date: **6/9/2015 12:46:01 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00194	0.000200	0.00200	0	97.0	80	120	2.04	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150609A

Sample ID	**ICV-150608**	Batch ID:	**R80029**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 12:25:36 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00416	0.000200	0.00400	0	104	90	110			

Sample ID	**CCV1-150609**	Batch ID:	**R80029**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 1:08:43 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	90	110			

Sample ID	**CCV2-150609**	Batch ID:	**R80029**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 1:24:40 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.000200	0.00200	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150609B

The QC data in batch 69936 applies to the following samples: 1506063-01B, 1506063-02B, 1506063-03B, 1506063-04B, 1506063-05B, 1506063-06B, 1506063-07B, 1506063-08B, 1506063-09B, 1506063-10B, 1506063-11B, 1506063-12B, 1506063-13B, 1506063-14B, 1506063-15B

Sample ID **MB-69936** Batch ID: **69936** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS3_150609B** Analysis Date: **6/9/2015 5:09:00 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Calcium	ND	0.300								
Chromium	ND	0.00500								
Lead	ND	0.00100								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Selenium	ND	0.00500								
Silver	ND	0.00200								
Sodium	ND	0.300								

Sample ID **LCS-69936** Batch ID: **69936** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS3_150609B** Analysis Date: **6/9/2015 5:15:00 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.212	0.00500	0.200	0	106	80	120			
Barium	0.197	0.0100	0.200	0	98.7	80	120			
Cadmium	0.198	0.00100	0.200	0	98.9	80	120			
Calcium	4.94	0.300	5.00	0	98.8	80	120			
Chromium	0.202	0.00500	0.200	0	101	80	120			
Lead	0.204	0.00100	0.200	0	102	80	120			
Magnesium	4.76	0.300	5.00	0	95.2	80	120			
Potassium	4.99	0.300	5.00	0	99.9	80	120			
Selenium	0.222	0.00500	0.200	0	111	80	120			
Silver	0.196	0.00200	0.200	0	97.8	80	120			
Sodium	4.90	0.300	5.00	0	97.9	80	120			

Sample ID **LCSD-69936** Batch ID: **69936** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS3_150609B** Analysis Date: **6/9/2015 5:21:00 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0	102	80	120	3.17	15	
Barium	0.193	0.0100	0.200	0	96.4	80	120	2.36	15	
Cadmium	0.194	0.00100	0.200	0	96.8	80	120	2.15	15	
Calcium	5.00	0.300	5.00	0	100	80	120	1.25	15	
Chromium	0.196	0.00500	0.200	0	98.2	80	120	2.61	15	
Lead	0.200	0.00100	0.200	0	100	80	120	1.63	15	
Magnesium	4.70	0.300	5.00	0	94.0	80	120	1.25	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150609B

Sample ID **LCSD-69936** Batch ID: **69936** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS3_150609B** Analysis Date: **6/9/2015 5:21:00 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	4.96	0.300	5.00	0	99.2	80	120	0.703	15	
Selenium	0.212	0.00500	0.200	0	106	80	120	4.47	15	
Silver	0.189	0.00200	0.200	0	94.6	80	120	3.33	15	
Sodium	4.94	0.300	5.00	0	98.7	80	120	0.814	15	

Sample ID **1506063-04B SD** Batch ID: **69936** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS3_150609B** Analysis Date: **6/9/2015 5:39:00 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	0.250	0	0.0475				0	10	
Barium	0	0.500	0	0				0	10	
Cadmium	0	0.0500	0	0				0	10	
Calcium	48.6	15.0	0	51.7				6.08	10	
Chromium	0	0.250	0	0				0	10	
Lead	0	0.0500	0	0				0	10	
Magnesium	24.6	15.0	0	24.8				0.668	10	
Potassium	44.9	15.0	0	46.4				3.36	10	
Selenium	0	0.250	0	0				0	10	
Silver	0	0.100	0	0				0	10	

Sample ID **1506063-04B PDS** Batch ID: **69936** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS3_150609B** Analysis Date: **6/9/2015 6:09:00 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	1.95	0.0500	2.00	0.0475	95.1	80	120			
Barium	1.88	0.100	2.00	0	94.2	80	120			
Cadmium	1.76	0.0100	2.00	0	87.8	80	120			
Calcium	100	3.00	50.0	51.7	97.4	80	120			
Chromium	1.87	0.0500	2.00	0	93.3	80	120			
Lead	1.94	0.0100	2.00	0	96.9	80	120			
Magnesium	71.8	3.00	50.0	24.8	94.0	80	120			
Potassium	94.1	3.00	50.0	46.4	95.3	80	120			
Selenium	1.83	0.0500	2.00	0	91.7	80	120			
Silver	1.71	0.0200	2.00	0	85.4	80	120			

Sample ID **1506063-04B MSD** Batch ID: **69936** TestNo: **SW6020A** Units: **mg/L**
SampType: **MSD** Run ID: **ICP-MS3_150609B** Analysis Date: **6/9/2015 6:21:00 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.241	0.0500	0.200	0.0475	96.6	80	120	3.67	15	
Barium	0.214	0.100	0.200	0	107	80	120	3.81	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150609B

Sample ID **1506063-04B MSD**	Batch ID: **69936**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 6:21:00 PM**	Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.179	0.0100	0.200	0	89.6	80	120	6.48	15	
Calcium	55.0	3.00	5.00	51.7	66.0	80	120	4.25	15	S
Chromium	0.192	0.0500	0.200	0	96.0	80	120	2.72	15	
Lead	0.193	0.0100	0.200	0	96.3	80	120	3.37	15	
Magnesium	28.6	3.00	5.00	24.8	76.4	80	120	3.07	15	S
Potassium	49.3	3.00	5.00	46.4	57.0	80	120	2.31	15	S
Selenium	0.207	0.0500	0.200	0	104	80	120	7.57	15	
Silver	0.173	0.0200	0.200	0	86.3	80	120	5.74	15	
Sodium	2250	3.00	5.00	2280	-640	80	120	2.93	15	S

Sample ID **1506063-04B SD**	Batch ID: **69936**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **SD**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 7:09:00 PM**	Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	2300	750	0	2520				9.07	10	

Sample ID **1506063-04B PDS**	Batch ID: **69936**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **PDS**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 8:09:00 PM**	Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	4970	150	2500	2520	97.9	80	120			

Sample ID **1506063-04B MS**	Batch ID: **69936**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MS**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 6:15:00 PM**	Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.250	0.0500	0.200	0.0475	101	80	120			
Barium	0.222	0.100	0.200	0	111	80	120			
Cadmium	0.191	0.0100	0.200	0	95.7	80	120			
Calcium	57.4	3.00	5.00	51.7	114	80	120			
Chromium	0.197	0.0500	0.200	0	98.6	80	120			
Lead	0.199	0.0100	0.200	0	99.6	80	120			
Magnesium	29.5	3.00	5.00	24.8	94.2	80	120			
Potassium	50.4	3.00	5.00	46.4	80.0	80	120			
Selenium	0.223	0.0500	0.200	0	112	80	120			
Silver	0.183	0.0200	0.200	0	91.4	80	120			
Sodium	2320	3.00	5.00	2280	700	80	120			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150609B

Sample ID **ICV1-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 2:24:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.0964	0.0100	0.100	0	96.4	90	110			
Cadmium	0.0966	0.00100	0.100	0	96.6	90	110			
Calcium	2.47	0.300	2.50	0	98.7	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Lead	0.0994	0.00100	0.100	0	99.4	90	110			
Magnesium	2.58	0.300	2.50	0	103	90	110			
Potassium	2.58	0.300	2.50	0	103	90	110			
Selenium	0.0987	0.00500	0.100	0	98.7	90	110			
Silver	0.0954	0.00200	0.100	0	95.4	90	110			
Sodium	2.61	0.300	2.50	0	104	90	110			

Sample ID **ILCVL-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 2:36:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00515	0.00500	0.00500	0	103	70	130			
Barium	0.00491	0.0100	0.00500	0	98.3	70	130			
Cadmium	0.00102	0.00100	0.00100	0	102	70	130			
Calcium	0.0703	0.300	0.100	0	70.3	70	130			
Chromium	0.00531	0.00500	0.00500	0	106	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			
Magnesium	0.0995	0.300	0.100	0	99.5	70	130			
Potassium	0.101	0.300	0.100	0	101	70	130			
Selenium	0.00516	0.00500	0.00500	0	103	70	130			
Silver	0.00198	0.00200	0.00200	0	98.9	70	130			
Sodium	0.111	0.300	0.100	0	111	70	130			

Sample ID **CCV1-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 4:39:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.210	0.00500	0.200	0	105	90	110			
Barium	0.201	0.0100	0.200	0	101	90	110			
Cadmium	0.196	0.00100	0.200	0	98.0	90	110			
Calcium	5.29	0.300	5.00	0	106	90	110			
Chromium	0.202	0.00500	0.200	0	101	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			
Magnesium	4.83	0.300	5.00	0	96.7	90	110			
Potassium	4.97	0.300	5.00	0	99.4	90	110			
Selenium	0.215	0.00500	0.200	0	108	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150609B

Sample ID **CCV1-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 4:39:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.201	0.00200	0.200	0	101	90	110			
Sodium	5.03	0.300	5.00	0	101	90	110			

Sample ID **LCVL1-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 4:57:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00542	0.00500	0.00500	0	108	70	130			
Barium	0.00538	0.0100	0.00500	0	108	70	130			
Cadmium	0.00101	0.00100	0.00100	0	101	70	130			
Calcium	0.0824	0.300	0.100	0	82.4	70	130			
Chromium	0.00507	0.00500	0.00500	0	101	70	130			
Lead	0.00114	0.00100	0.00100	0	114	70	130			
Magnesium	0.0998	0.300	0.100	0	99.8	70	130			
Potassium	0.0854	0.300	0.100	0	85.4	70	130			
Selenium	0.00582	0.00500	0.00500	0	116	70	130			
Silver	0.00213	0.00200	0.00200	0	106	70	130			
Sodium	0.0364	0.300	0.100	0	36.4	70	130			S

Sample ID **CCV2-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 6:33:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.209	0.00500	0.200	0	105	90	110			
Barium	0.199	0.0100	0.200	0	99.4	90	110			
Cadmium	0.198	0.00100	0.200	0	99.2	90	110			
Calcium	5.07	0.300	5.00	0	101	90	110			
Chromium	0.205	0.00500	0.200	0	102	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			
Magnesium	4.84	0.300	5.00	0	96.9	90	110			
Potassium	4.98	0.300	5.00	0	99.6	90	110			
Selenium	0.209	0.00500	0.200	0	105	90	110			
Silver	0.200	0.00200	0.200	0	99.8	90	110			
Sodium	5.10	0.300	5.00	0	102	90	110			

Sample ID **LCVL2-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 6:51:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00524	0.00500	0.00500	0	105	70	130			
Barium	0.00501	0.0100	0.00500	0	100	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150609B

Sample ID **LCVL2-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 6:51:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Calcium	0.0754	0.300	0.100	0	75.4	70	130			
Chromium	0.00500	0.00500	0.00500	0	100	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			
Magnesium	0.0987	0.300	0.100	0	98.7	70	130			
Potassium	0.0902	0.300	0.100	0	90.2	70	130			
Selenium	0.00536	0.00500	0.00500	0	107	70	130			
Silver	0.00207	0.00200	0.00200	0	103	70	130			
Sodium	0.0543	0.300	0.100	0	54.3	70	130			S

Sample ID **CCV3-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 8:21:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.98	0.300	5.00	0	99.7	90	110			
Magnesium	4.75	0.300	5.00	0	95.0	90	110			
Potassium	4.94	0.300	5.00	0	98.8	90	110			
Sodium	4.96	0.300	5.00	0	99.2	90	110			

Sample ID **LCVL3-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 8:45:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0246	0.300	0.100	0	24.6	70	130			S
Magnesium	0.0944	0.300	0.100	0	94.4	70	130			
Potassium	0.0894	0.300	0.100	0	89.4	70	130			
Sodium	0.0362	0.300	0.100	0	36.2	70	130			S

Sample ID **CCV4-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 9:45:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.193	0.00500	0.200	0	96.3	90	110			
Barium	0.197	0.0100	0.200	0	98.6	90	110			
Cadmium	0.193	0.00100	0.200	0	96.4	90	110			
Calcium	4.94	0.300	5.00	0	98.8	90	110			
Chromium	0.196	0.00500	0.200	0	98.1	90	110			
Lead	0.200	0.00100	0.200	0	99.9	90	110			
Magnesium	4.62	0.300	5.00	0	92.4	90	110			
Potassium	4.90	0.300	5.00	0	98.0	90	110			
Selenium	0.189	0.00500	0.200	0	94.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150609B

Sample ID **CCV4-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 9:45:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.191	0.00200	0.200	0	95.4	90	110			
Sodium	4.78	0.300	5.00	0	95.6	90	110			

Sample ID **LCVL4-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 10:09:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00513	0.00500	0.00500	0	103	70	130			
Barium	0.00522	0.0100	0.00500	0	104	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Calcium	0.0296	0.300	0.100	0	29.6	70	130			S
Chromium	0.00534	0.00500	0.00500	0	107	70	130			
Lead	0.00107	0.00100	0.00100	0	107	70	130			
Magnesium	0.102	0.300	0.100	0	102	70	130			
Potassium	0.0988	0.300	0.100	0	98.8	70	130			
Selenium	0.00530	0.00500	0.00500	0	106	70	130			
Silver	0.00208	0.00200	0.00200	0	104	70	130			
Sodium	0.0518	0.300	0.100	0	51.8	70	130			S

Sample ID **CCV5-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/9/2015 11:44:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.193	0.00500	0.200	0	96.3	90	110			
Barium	0.198	0.0100	0.200	0	98.9	90	110			
Cadmium	0.194	0.00100	0.200	0	96.8	90	110			
Chromium	0.191	0.00500	0.200	0	95.3	90	110			
Lead	0.201	0.00100	0.200	0	101	90	110			
Potassium	4.95	0.300	5.00	0	98.9	90	110			
Selenium	0.191	0.00500	0.200	0	95.4	90	110			
Silver	0.197	0.00200	0.200	0	98.6	90	110			

Sample ID **LCVL5-150609**	Batch ID: **R80042**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150609B**	Analysis Date: **6/10/2015 12:08:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00490	0.00500	0.00500	0	97.9	70	130			
Barium	0.00507	0.0100	0.00500	0	101	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00480	0.00500	0.00500	0	96.1	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150609B

Sample ID	**LCVL5-150609**	Batch ID:	**R80042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS3_150609B**	Analysis Date:	**6/10/2015 12:08:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	0.0933	0.300	0.100	0	93.3	70	130			
Selenium	0.00473	0.00500	0.00500	0	94.6	70	130			
Silver	0.00203	0.00200	0.00200	0	102	70	130			

Sample ID	**CCV6-150609**	Batch ID:	**R80042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS3_150609B**	Analysis Date:	**6/10/2015 1:20:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.194	0.00500	0.200	0	97.0	90	110			
Barium	0.198	0.0100	0.200	0	99.2	90	110			
Cadmium	0.191	0.00100	0.200	0	95.5	90	110			
Chromium	0.190	0.00500	0.200	0	94.8	90	110			
Lead	0.201	0.00100	0.200	0	100	90	110			
Potassium	4.90	0.300	5.00	0	98.1	90	110			
Selenium	0.191	0.00500	0.200	0	95.7	90	110			
Silver	0.194	0.00200	0.200	0	96.8	90	110			

Sample ID	**LCVL6-150609**	Batch ID:	**R80042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS3_150609B**	Analysis Date:	**6/10/2015 1:44:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00490	0.00500	0.00500	0	98.0	70	130			
Barium	0.00497	0.0100	0.00500	0	99.4	70	130			
Cadmium	0.000963	0.00100	0.00100	0	96.3	70	130			
Chromium	0.00471	0.00500	0.00500	0	94.2	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			
Potassium	0.0911	0.300	0.100	0	91.1	70	130			
Selenium	0.00540	0.00500	0.00500	0	108	70	130			
Silver	0.00194	0.00200	0.00200	0	97.2	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150612C

Sample ID **ICV-150612**	Batch ID: **R80097**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS4_150612C**	Analysis Date: **6/12/2015 12:11:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	2.39	0.300	2.50	0	95.6	90	110			

Sample ID **LCVL-150612**	Batch ID: **R80097**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_150612C**	Analysis Date: **6/12/2015 12:15:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	0.0861	0.300	0.100	0	86.1	70	130			

Sample ID **CCV6-150612**	Batch ID: **R80097**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_150612C**	Analysis Date: **6/12/2015 5:28:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	5.09	0.300	5.00	0	102	90	110			

Sample ID **LCVL6-150612**	Batch ID: **R80097**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_150612C**	Analysis Date: **6/12/2015 5:32:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	0.139	0.300	0.100	0	139	70	130			S

Sample ID **CCV7-150612**	Batch ID: **R80097**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_150612C**	Analysis Date: **6/12/2015 5:45:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	5.02	0.300	5.00	0	100	90	110			

Sample ID **LCVL7-150612**	Batch ID: **R80097**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_150612C**	Analysis Date: **6/12/2015 5:50:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	0.120	0.300	0.100	0	120	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150615A

Sample ID **ICV-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 12:38:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	2.27	0.300	2.50	0	90.9	90	110			
Magnesium	2.42	0.300	2.50	0	96.9	90	110			
Potassium	2.43	0.300	2.50	0	97.2	90	110			
Sodium	2.50	0.300	2.50	0	100	90	110			

Sample ID **LCVL-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 12:42:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0818	0.300	0.100	0	81.8	70	130			
Magnesium	0.0978	0.300	0.100	0	97.8	70	130			
Potassium	0.103	0.300	0.100	0	103	70	130			
Sodium	0.112	0.300	0.100	0	112	70	130			

Sample ID **CCV1-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 1:24:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.75	0.300	5.00	0	95.0	90	110			
Magnesium	5.01	0.300	5.00	0	100	90	110			
Potassium	4.99	0.300	5.00	0	99.7	90	110			
Sodium	5.46	0.300	5.00	0	109	90	110			

Sample ID **LCVL1-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 1:39:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0857	0.300	0.100	0	85.7	70	130			
Magnesium	0.101	0.300	0.100	0	101	70	130			
Potassium	0.106	0.300	0.100	0	106	70	130			
Sodium	0.174	0.300	0.100	0	174	70	130			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150608A

The QC data in batch 69930 applies to the following samples: 1506063-01C, 1506063-02C

Sample ID	**LCS-69930**	Batch ID:	**69930**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 9:11:31 AM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.87	1.00	10.00	0	98.7	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Sample ID	**LCSD-69930**	Batch ID:	**69930**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 9:26:08 AM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.85	1.00	10.00	0	98.5	90	110	0.244	20	
Sulfate	29.7	3.00	30.00	0	99.1	90	110	1.12	20	

Sample ID	**MB-69930**	Batch ID:	**69930**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 9:40:44 AM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID	**1506049-09BMS**	Batch ID:	**69930**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 3:46:38 PM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2620	100	2000	573.8	102	90	110			
Sulfate	4060	300	2000	1880	109	90	110			

Sample ID	**1506049-09BMSD**	Batch ID:	**69930**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 4:01:15 PM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2570	100	2000	573.8	99.9	90	110	1.89	20	
Sulfate	3990	300	2000	1880	105	90	110	1.73	20	

Sample ID	**1506049-11BMS**	Batch ID:	**69930**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 4:15:52 PM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2080	100	2000	81.49	100	90	110			
Sulfate	2440	300	2000	384.4	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150608A

Sample ID **1506049-11BMSD** Batch ID: **69930** TestNo: **E300** Units: **mg/L**
SampType: **MSD** Run ID: **IC2_150608A** Analysis Date: **6/8/2015 4:30:28 PM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2080	100	2000	81.49	99.9	90	110	0.132	20	
Sulfate	2420	300	2000	384.4	102	90	110	0.785	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150608A

Sample ID	**ICV-150608**	Batch ID:	**R80034**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 8:47:48 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.4	1.00	25.00	0	97.5	90	110			
Sulfate	75.2	3.00	75.00	0	100	90	110			

Sample ID	**CCV1-150608**	Batch ID:	**R80034**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 12:45:13 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.91	1.00	10.00	0	99.1	90	110			
Sulfate	30.3	3.00	30.00	0	101	90	110			

Sample ID	**CCV2-150608**	Batch ID:	**R80034**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**IC2_150608A**	Analysis Date:	**6/8/2015 4:47:12 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.86	1.00	10.00	0	98.6	90	110			
Sulfate	30.2	3.00	30.00	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150609A

The QC data in batch 69943 applies to the following samples: 1506063-03C, 1506063-04C, 1506063-05C, 1506063-06C, 1506063-07C, 1506063-08C, 1506063-09C, 1506063-10C, 1506063-11C, 1506063-12C, 1506063-13C, 1506063-14C, 1506063-15C

Sample ID **LCS-69943** Batch ID: **69943** TestNo: **E300** Units: **mg/L**
SampType: **LCS** Run ID: **IC2_150609A** Analysis Date: **6/9/2015 8:43:14 AM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.93	1.00	10.00	0	99.3	90	110			
Sulfate	30.5	3.00	30.00	0	102	90	110			

Sample ID **LCSD-69943** Batch ID: **69943** TestNo: **E300** Units: **mg/L**
SampType: **LCSD** Run ID: **IC2_150609A** Analysis Date: **6/9/2015 8:57:50 AM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.99	1.00	10.00	0	99.9	90	110	0.561	20	
Sulfate	30.5	3.00	30.00	0	102	90	110	0.106	20	

Sample ID **MB-69943** Batch ID: **69943** TestNo: **E300** Units: **mg/L**
SampType: **MBLK** Run ID: **IC2_150609A** Analysis Date: **6/9/2015 9:12:27 AM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID **1506063-03CMS** Batch ID: **69943** TestNo: **E300** Units: **mg/L**
SampType: **MS** Run ID: **IC2_150609A** Analysis Date: **6/9/2015 2:36:48 PM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	33600	1000	20000	13280	102	90	110			
Sulfate	22900	3000	20000	1281	108	90	110			

Sample ID **1506063-03CMSD** Batch ID: **69943** TestNo: **E300** Units: **mg/L**
SampType: **MSD** Run ID: **IC2_150609A** Analysis Date: **6/9/2015 2:51:24 PM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	33200	1000	20000	13280	99.8	90	110	1.04	20	
Sulfate	22300	3000	20000	1281	105	90	110	2.54	20	

Sample ID **1506063-10CMS** Batch ID: **69943** TestNo: **E300** Units: **mg/L**
SampType: **MS** Run ID: **IC2_150609A** Analysis Date: **6/9/2015 3:06:01 PM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2430	100	2000	391.5	102	90	110			
Sulfate	2400	300	2000	305.3	105	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150609A

Sample ID **1506063-10CMSD** Batch ID: **69943** TestNo: **E300** Units: **mg/L**
SampType: **MSD** Run ID: **IC2_150609A** Analysis Date: **6/9/2015 3:20:37 PM** Prep Date: **6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2450	100	2000	391.5	103	90	110	0.605	20	
Sulfate	2420	300	2000	305.3	106	90	110	0.914	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150609A

Sample ID **ICV-150609**	Batch ID: **R80054**	TestNo: **E300**	Units: **mg/L**
SampType: **ICV**	Run ID: **IC2_150609A**	Analysis Date: **6/9/2015 8:25:28 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.5	1.00	25.00	0	98.1	90	110			
Sulfate	75.4	3.00	75.00	0	101	90	110			

Sample ID **CCV1-150609**	Batch ID: **R80054**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_150609A**	Analysis Date: **6/9/2015 12:03:49 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	1.00	10.00	0	104	90	110			
Sulfate	31.3	3.00	30.00	0	104	90	110			

Sample ID **CCV2-150609**	Batch ID: **R80054**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_150609A**	Analysis Date: **6/9/2015 3:35:14 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Sulfate	30.9	3.00	30.00	0	103	90	110			

Sample ID **CCV3-150609**	Batch ID: **R80054**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_150609A**	Analysis Date: **6/9/2015 6:28:15 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.85	1.00	10.00	0	98.5	90	110			
Sulfate	30.2	3.00	30.00	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_150610B

The QC data in batch 69967 applies to the following samples: 1506063-01C, 1506063-02C, 1506063-03C, 1506063-04C, 1506063-05C, 1506063-06C, 1506063-07C, 1506063-08C, 1506063-09C, 1506063-10C, 1506063-11C, 1506063-12C, 1506063-13C, 1506063-14C, 1506063-15C

Sample ID **MB-69967** Batch ID: **69967** TestNo: **M2320 B** Units: **mg/L @ pH 4.51**
SampType: **MBLK** Run ID: **TITRATOR_150610B** Analysis Date: **6/10/2015 10:19:00 AM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID **LCS-69967** Batch ID: **69967** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
SampType: **LCS** Run ID: **TITRATOR_150610B** Analysis Date: **6/10/2015 10:24:00 AM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	52.8	20.0	50.00	0	106	74	129			

Sample ID **1506063-09C DUP** Batch ID: **69967** TestNo: **M2320 B** Units: **mg/L @ pH 4.53**
SampType: **DUP** Run ID: **TITRATOR_150610B** Analysis Date: **6/10/2015 12:34:00 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	359	20.0	0	361.1				0.444	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	359	20.0	0	361.1				0.444	20	

Sample ID **1506063-15C DUP** Batch ID: **69967** TestNo: **M2320 B** Units: **mg/L @ pH 4.54**
SampType: **DUP** Run ID: **TITRATOR_150610B** Analysis Date: **6/10/2015 1:58:00 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	181	20.0	0	181.9				0.515	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	181	20.0	0	181.9				0.515	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_150610B

Sample ID **ICV-150610**	Batch ID: **R80052**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.54**
SampType: **ICV**	Run ID: **TITRATOR_150610B**	Analysis Date: **6/10/2015 10:16:00 AM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	8.16	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.9	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	98.1	20.0	100.0	0	98.1	98	102			

Sample ID **CCV1-150610**	Batch ID: **R80052**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.52**
SampType: **CCV**	Run ID: **TITRATOR_150610B**	Analysis Date: **6/10/2015 12:41:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	22.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	77.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.7	20.0	100.0	0	99.7	90	110			

Sample ID **CCV2-150610**	Batch ID: **R80052**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.51**
SampType: **CCV**	Run ID: **TITRATOR_150610B**	Analysis Date: **6/10/2015 2:14:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	8.08	20.0	0							
Alkalinity, Carbonate (As CaCO3)	92.3	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	100	20.0	100.0	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506063
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: WC_150608A

The QC data in batch 69933 applies to the following samples: 1506063-01C, 1506063-02C, 1506063-03C, 1506063-04C, 1506063-05C, 1506063-06C, 1506063-07C, 1506063-08C, 1506063-09C, 1506063-10C, 1506063-11C, 1506063-12C, 1506063-13C, 1506063-14C, 1506063-15C

Sample ID **MB-69933** Batch ID: **69933** TestNo: **M2540C** Units: **mg/L**
SampType: **MBLK** Run ID: **WC_150608A** Analysis Date: **6/9/2015 9:00:00 AM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10.0								

Sample ID **LCS-69933** Batch ID: **69933** TestNo: **M2540C** Units: **mg/L**
SampType: **LCS** Run ID: **WC_150608A** Analysis Date: **6/9/2015 9:00:00 AM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	739	10.0	745.6	0	99.1	90	113			

Sample ID **1506028-01C-DUP** Batch ID: **69933** TestNo: **M2540C** Units: **mg/L**
SampType: **DUP** Run ID: **WC_150608A** Analysis Date: **6/9/2015 9:00:00 AM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	254	10.0	0	256.0				0.784	5	

Sample ID **1506037-01B-DUP** Batch ID: **69933** TestNo: **M2540C** Units: **mg/L**
SampType: **DUP** Run ID: **WC_150608A** Analysis Date: **6/9/2015 9:00:00 AM** Prep Date: **6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	1090	50.0	0	1100				0.913	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

June 17, 2015

Mark Larson
Larson & Associates
507 N. Marienfeld #205
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456

Order No.: 1506075

RE: Targa Eunice

Dear Mark Larson:

DHL Analytical, Inc. received 12 sample(s) on 6/5/2015 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-15-14

Table of Contents

DHL ANALYTICAL

2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

nelap

№ 65446

CHAIN-OF-CUSTODY

CLIENT: Larson and Associates
ADDRESS: 507 N. Marienfeld Ste. 205 Midland, TX 79701
PHONE: (432) 687-0901 FAX/E-MAIL:
DATA REPORTED TO: Mark Larson
ADDITIONAL REPORT COPIES TO:

DATE: 6/4/2015 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 1506025
PROJECT LOCATION OR NAME: Targa Eunice
CLENT PROJECT #: 2-0103 COLLECTOR: Scott Shtssly

Authorize 5% surcharge for TRRP Report? ☐ Yes ☒ No

S=SOIL W=WATER (circled) A=AIR L=LIQUID P=PAINT SL=SLUDGE O=OTHER SO=SOLID

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒ MTBE ☐ [METHOD 8021]	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO [METHOD 8015] ☐ DRO [METHOD 8105] ☐	VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐	8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐	8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐	8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐	METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐	RCRA ☒ TX11 ☐ ___ ☐	PH ☐ HEX CHROM ☐ ALKALINITY ☒	CHLORIDE ☒ ANIONS ___ ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☒ TSS ☐ % MOISTURE ☐ CYANIDE ☐	Cat + Mg+	Sulfate	K+ Na+	FIELD NOTES
MW-11	01	6/3/15	11:15	W	Poly/VOA	5	X	X		X		X									X	X	X				X	X	X		
MW-12	02	↓	11:45	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
MW-4	03	↓	12:15	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
MW-13	04	↓	12:30	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
MW-28	05	↓	1:00	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
MW-23	06	↓	1:30	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
HV-8	07	↓	2:00	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
HV-7	08	↓	2:15	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
HV-3	09	↓	2:30	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
MW-26	10	↓	2:45	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
MW-25	11	↓	3:00	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
MW-24	12	↓	3:15	↓	↓	↓	↓	↓		↓		↓									↓	↓	↓				↓	↓	↓		
TOTAL																															

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	6/4/15 7:00AM	[signature]
[signature]	6/5/15 830	[signature]
	6/5/15	

☐ DHL DISPOSAL @ $5.00 each ☐ Return

3

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ___

LABORATORY USE ONLY:
RECEIVING TEMP: 14/1.7 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #: [signature]
☐ APC DELIVERY
☐ HAND DELIVERED

LSO

WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 48947413

48947413

1. To: Print Name (Person): J. Butler Phone (Important): (512)388-8229
Company Name: DHL Analytical
Street Address (No P.O. Box or P.O. Box Zip Code Deliveries): 7200 Double Creek Dr.
Suite / Floor:
City: Round Rock State: TX Zip: 78664

2. From: Print Name (Person): Phone (Important): 432-687-0901
Company Name: LARSON & ASSOCIATES
Street Address: 507 N. MARIENFELD ST.
Suite / Floor: #200
City: MIDLAND State: TX Zip: 79701

3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.

- [x] LSO Priority Overnight* — By 10:30 a.m. to most cities
- [ ] LSO Early Overnight* — By 8:30 a.m. select cities
- [ ] LSO Economy Next Day* — By 3 p.m. to most cities
- [ ] LSO 2nd Day*
- [ ] LSO Ground
- [ ] LSO Saturday*
- [ ] Other

*Check commitment times and availability at www.lso.com

Assumed LSO Priority Overnight service unless otherwise noted.

- [x] Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

L_____ x W_____ x H_____

4. Package: Weight: 60

Your Company's Billing Reference Information:

Ship Date: (mm/dd/yy) 6/4/15

5. Payment:

FOR DRIVER USE ONLY

Driver Number: 4598
- [ ] Check here if LSO Supplies are used with LSO Ground Service.

Pick-up Location: 12
Date: 6-4-15
Time: 1726
City Code: AUS

LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSO EARLY OVERNIGHT SERVICE. PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON LSO GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

CUSTODY SEAL
DATE: 6/4/15
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

AB

LSO

WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 48947414

48947414

1A

1B

1. To: Print Name (Person): J. Baker | Phone (Important): (512) 388-6222

Company Name: DHL Analytical

Street Address (No P.O. Box or P.O. Box Zip Code Deliveries): 7300 Double Creek Dr.

Suite / Floor:

City: Round Rock | State: TX | Zip: 78664

2. From: Print Name (Person): | Phone (Important): 432-687-0901

Company Name: LARSON & ASSOCIATES

Street Address: 507 N. MARIENFELD ST.

Suite / Floor: #200

City: MIDLAND | State: TX | Zip: 79701

3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.

- [X] **LSO Priority Overnight*** By 10:30 a.m. to most cities
- [ ] **LSO Early Overnight*** By 8:30 a.m. select cities
- [ ] **LSO Economy Next Day*** By 3 p.m. to most cities
- [ ] **LSO 2nd Day***
- [ ] **LSO Ground**
- [ ] **LSO Saturday***
- [X] Other

*Check commitment times and availability at www.lso.com

Assumed LSO Priority Overnight service unless otherwise noted.

- [X] Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

L_____ x W_____ x H_____

4. Package: Weight: 60

Your Company's Billing Reference Information:

Ship Date: (mm/dd/yy) 6-4-15

5. Payment:

FOR DRIVER USE ONLY

Driver Number: 4898

- [ ] Check here if LSO Supplies are used with LSO Ground Service.

Pick-up Location: R

Date: 6-4-15

Time: 5:20

City Code: AUS

LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSO EARLY OVERNIGHT SERVICE. PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON LSO GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

CUSTODY SEAL
DATE 6/4/15
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name **Larson & Associates** Date Received: **6/5/2015**

Work Order Number **1506075** Received by **JB**

Checklist completed by: Signature 6/5/2015 Date Reviewed by Initials 6/5/2015 Date

Carrier name LoneStar

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.4 °C , 1.7
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 8086
	Adjusted? ND		Checked by
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action: _____

Page 1 of 1

DHL Analytical, Inc. **Date:** *17-Jun-15*

CLIENT: Larson & Associates
Project: Targa Eunice
Lab Order: 1506075

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method SW8021B - Volatiles by GC Analysis
Method E300 - Anions Analysis
Method M2320 B - Alkalinity Analysis
Method M2540C - TDS Analysis

LOG IN

The samples were received and log-in performed on 6/5/15. A total of 12 samples were received. The Time Of Collection was Mountain Standard Time. The samples arrived in good condition and were properly packaged.

METALS ANALYSIS

For Metals analysis sample MW-12 had the low response for the internal standard Bismuth. This was due to the concentrations of non-target analytes. The associated analyte (Lead) is being reported from the 1x. No further corrective actions were taken.

For Metals analysis performed on 6/12/15 and 6/15/1 (batches 69969 & 69972) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of five analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate (batch 69969) was from this work order. The reference sample selected for the matrix spike and matrix spike duplicate (batch 69972) was not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Metals analysis performed on 6/12/15 (batch 69969) the PDS recovery was slightly below control limits for Potassium. This is flagged accordingly. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 6/15/15 (batch 69972) the RPD for the serial dilution was slightly above control limits for Potassium. This is flagged accordingly. The PDS was wiithin control limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 6/15/15 LCVL1-150615 was above control limits for Sodium. This is flagged accordingly. The associated CCV1-150615 was within control limits for this analyte. No further corrective actions were taken.

CLIENT:	Larson & Associates
Project:	Targa Eunice
Lab Order:	1506075

CASE NARRATIVE

VOLATILE ORGANICS BY GC ANALYSIS

For Volatile Organics by GC analysis three samples were diluted prior to analysis due to the nature of the samples (concentration of target compounds).

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT: Larson & Associates
Project: Targa Eunice
Lab Order: 1506075

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1506075-01	MW-11		06/03/15 11:15 AM	6/5/2015
1506075-02	MW-12		06/03/15 11:45 AM	6/5/2015
1506075-03	MW-4		06/03/15 12:15 PM	6/5/2015
1506075-04	MW-13		06/03/15 12:30 PM	6/5/2015
1506075-05	MW-28		06/03/15 01:00 PM	6/5/2015
1506075-06	MW-23		06/03/15 01:30 PM	6/5/2015
1506075-07	HV-8		06/03/15 02:00 PM	6/5/2015
1506075-08	HV-7		06/03/15 02:15 PM	6/5/2015
1506075-09	HV-3		06/03/15 02:30 PM	6/5/2015
1506075-10	MW-26		06/03/15 02:45 PM	6/5/2015
1506075-11	MW-25		06/03/15 03:00 PM	6/5/2015
1506075-12	MW-24		06/03/15 03:15 PM	6/5/2015

Lab Order: 1506075
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506075-01A	MW-11	06/03/15 11:15 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-01B	MW-11	06/03/15 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969
	MW-11	06/03/15 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969
	MW-11	06/03/15 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969
	MW-11	06/03/15 11:15 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:53 AM	69948
1506075-01C	MW-11	06/03/15 11:15 AM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
	MW-11	06/03/15 11:15 AM	Aqueous	E300	Anion Preparation	06/12/15 08:52 AM	70019
	MW-11	06/03/15 11:15 AM	Aqueous	E300	Anion Preparation	06/12/15 08:52 AM	70019
	MW-11	06/03/15 11:15 AM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934
1506075-02A	MW-12	06/03/15 11:45 AM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-02B	MW-12	06/03/15 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969
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	MW-12	06/03/15 11:45 AM	Aqueous	E300	Anion Preparation	06/12/15 08:52 AM	70019
	MW-12	06/03/15 11:45 AM	Aqueous	E300	Anion Preparation	06/12/15 08:52 AM	70019
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1506075-03A	MW-4	06/03/15 12:15 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
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	MW-4	06/03/15 12:15 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:53 AM	69948
1506075-03C	MW-4	06/03/15 12:15 PM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
	MW-4	06/03/15 12:15 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	MW-4	06/03/15 12:15 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	MW-4	06/03/15 12:15 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934
1506075-04A	MW-13	06/03/15 12:30 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-04B	MW-13	06/03/15 12:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969
	MW-13	06/03/15 12:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969

Lab Order: 1506075
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506075-04B	MW-13	06/03/15 12:30 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:53 AM	69948
1506075-04C	MW-13	06/03/15 12:30 PM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
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	MW-28	06/03/15 01:00 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	MW-28	06/03/15 01:00 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934
1506075-06A	MW-23	06/03/15 01:30 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-06B	MW-23	06/03/15 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969
	MW-23	06/03/15 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969
	MW-23	06/03/15 01:30 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:58 AM	69949
1506075-06C	MW-23	06/03/15 01:30 PM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
	MW-23	06/03/15 01:30 PM	Aqueous	E300	Anion Preparation	06/12/15 08:52 AM	70019
	MW-23	06/03/15 01:30 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934
1506075-07A	HV-8	06/03/15 02:00 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-07B	HV-8	06/03/15 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 08:58 AM	69969
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	HV-8	06/03/15 02:00 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:58 AM	69949
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	HV-8	06/03/15 02:00 PM	Aqueous	E300	Anion Preparation	06/12/15 08:52 AM	70019
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Lab Order: 1506075
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

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	HV-7	06/03/15 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972
	HV-7	06/03/15 02:15 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:58 AM	69949
1506075-08C	HV-7	06/03/15 02:15 PM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
	HV-7	06/03/15 02:15 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	HV-7	06/03/15 02:15 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	HV-7	06/03/15 02:15 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934
1506075-09A	HV-3	06/03/15 02:30 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-09B	HV-3	06/03/15 02:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972
	HV-3	06/03/15 02:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972
	HV-3	06/03/15 02:30 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:58 AM	69949
1506075-09C	HV-3	06/03/15 02:30 PM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
	HV-3	06/03/15 02:30 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	HV-3	06/03/15 02:30 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	HV-3	06/03/15 02:30 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	HV-3	06/03/15 02:30 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934
1506075-10A	MW-26	06/03/15 02:45 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-10B	MW-26	06/03/15 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972
	MW-26	06/03/15 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972
	MW-26	06/03/15 02:45 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:58 AM	69949
1506075-10C	MW-26	06/03/15 02:45 PM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
	MW-26	06/03/15 02:45 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	MW-26	06/03/15 02:45 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	MW-26	06/03/15 02:45 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934
1506075-11A	MW-25	06/03/15 03:00 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-11B	MW-25	06/03/15 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972
	MW-25	06/03/15 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972

Lab Order: 1506075
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506075-11B	MW-25	06/03/15 03:00 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:58 AM	69949
1506075-11C	MW-25	06/03/15 03:00 PM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
	MW-25	06/03/15 03:00 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	MW-25	06/03/15 03:00 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	MW-25	06/03/15 03:00 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934
1506075-12A	MW-24	06/03/15 03:15 PM	Aqueous	SW5030C	Purge and Trap Water GC	06/10/15 03:57 PM	69989
1506075-12B	MW-24	06/03/15 03:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972
	MW-24	06/03/15 03:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/10/15 09:03 AM	69972
	MW-24	06/03/15 03:15 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/09/15 08:58 AM	69949
1506075-12C	MW-24	06/03/15 03:15 PM	Aqueous	M2320 B	Alkalinity Preparation	06/11/15 08:57 AM	69995
	MW-24	06/03/15 03:15 PM	Aqueous	E300	Anion Preparation	06/15/15 09:16 AM	70037
	MW-24	06/03/15 03:15 PM	Aqueous	M2540C	TDS Preparation	06/08/15 09:18 AM	69934

Lab Order: 1506075
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506075-01A	MW-11	Aqueous	SW8021B	Volatile Organics by GC	69989	10	06/10/15 08:37 PM	GC8_150610B
1506075-01B	MW-11	Aqueous	SW7470A	Mercury Total: Aqueous	69948	1	06/09/15 02:47 PM	CETAC2_HG_150609A
	MW-11	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	10	06/12/15 12:50 PM	ICP-MS3_150612A
	MW-11	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	1	06/12/15 04:04 PM	ICP-MS3_150612A
	MW-11	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	50	06/15/15 03:32 PM	ICP-MS4_150615A
1506075-01C	MW-11	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 09:50 AM	TITRATOR_150611A
	MW-11	Aqueous	E300	Anions by IC method - Water	70019	1	06/12/15 01:40 PM	IC2_150612A
	MW-11	Aqueous	E300	Anions by IC method - Water	70019	10	06/12/15 01:54 PM	IC2_150612A
	MW-11	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-02A	MW-12	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/10/15 08:59 PM	GC8_150610B
1506075-02B	MW-12	Aqueous	SW7470A	Mercury Total: Aqueous	69948	1	06/09/15 02:50 PM	CETAC2_HG_150609A
	MW-12	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	100	06/12/15 12:56 PM	ICP-MS3_150612A
	MW-12	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	1	06/12/15 04:10 PM	ICP-MS3_150612A
1506075-02C	MW-12	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 09:58 AM	TITRATOR_150611A
	MW-12	Aqueous	E300	Anions by IC method - Water	70019	100	06/12/15 02:48 PM	IC2_150612A
	MW-12	Aqueous	E300	Anions by IC method - Water	70019	1000	06/12/15 03:06 PM	IC2_150612A
	MW-12	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-03A	MW-4	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/10/15 09:22 PM	GC8_150610B
1506075-03B	MW-4	Aqueous	SW7470A	Mercury Total: Aqueous	69948	1	06/09/15 02:52 PM	CETAC2_HG_150609A
	MW-4	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	50	06/12/15 01:02 PM	ICP-MS3_150612A
	MW-4	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	1	06/12/15 04:16 PM	ICP-MS3_150612A
1506075-03C	MW-4	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 10:16 AM	TITRATOR_150611A
	MW-4	Aqueous	E300	Anions by IC method - Water	70037	100	06/15/15 01:47 PM	IC2_150615A
	MW-4	Aqueous	E300	Anions by IC method - Water	70037	1	06/15/15 10:30 AM	IC2_150615A
	MW-4	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-04A	MW-13	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/10/15 10:30 PM	GC8_150610B

Lab Order: 1506075
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506075-04B	MW-13	Aqueous	SW7470A	Mercury Total: Aqueous	69948	1	06/09/15 02:54 PM	CETAC2_HG_150609A
	MW-13	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	100	06/12/15 01:08 PM	ICP-MS3_150612A
	MW-13	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	1	06/12/15 04:22 PM	ICP-MS3_150612A
1506075-04C	MW-13	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 10:24 AM	TITRATOR_150611A
	MW-13	Aqueous	E300	Anions by IC method - Water	70037	1	06/15/15 11:42 AM	IC2_150615A
	MW-13	Aqueous	E300	Anions by IC method - Water	70037	100	06/15/15 02:02 PM	IC2_150615A
	MW-13	Aqueous	E300	Anions by IC method - Water	70037	1000	06/15/15 03:36 PM	IC2_150615A
	MW-13	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-05A	MW-28	Aqueous	SW8021B	Volatile Organics by GC	69989	20	06/10/15 10:53 PM	GC8_150610B
1506075-05B	MW-28	Aqueous	SW7470A	Mercury Total: Aqueous	69948	1	06/09/15 02:56 PM	CETAC2_HG_150609A
	MW-28	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	50	06/12/15 01:14 PM	ICP-MS3_150612A
	MW-28	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	1	06/12/15 04:28 PM	ICP-MS3_150612A
1506075-05C	MW-28	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 10:43 AM	TITRATOR_150611A
	MW-28	Aqueous	E300	Anions by IC method - Water	70037	1	06/15/15 11:56 AM	IC2_150615A
	MW-28	Aqueous	E300	Anions by IC method - Water	70037	10	06/15/15 02:16 PM	IC2_150615A
	MW-28	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-06A	MW-23	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/10/15 11:16 PM	GC8_150610B
1506075-06B	MW-23	Aqueous	SW7470A	Mercury Total: Aqueous	69949	1	06/09/15 04:58 PM	CETAC2_HG_150609A
	MW-23	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	100	06/12/15 12:38 PM	ICP-MS3_150612A
	MW-23	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	1	06/12/15 03:52 PM	ICP-MS3_150612A
1506075-06C	MW-23	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 11:23 AM	TITRATOR_150611A
	MW-23	Aqueous	E300	Anions by IC method - Water	70019	100	06/12/15 03:21 PM	IC2_150612A
	MW-23	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-07A	HV-8	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/10/15 11:39 PM	GC8_150610B
1506075-07B	HV-8	Aqueous	SW7470A	Mercury Total: Aqueous	69949	1	06/09/15 05:00 PM	CETAC2_HG_150609A
	HV-8	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	100	06/12/15 01:21 PM	ICP-MS3_150612A

Lab Order: 1506075
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506075-07B	HV-8	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69969	1	06/12/15 04:34 PM	ICP-MS3_150612A
1506075-07C	HV-8	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 11:38 AM	TITRATOR_150611A
	HV-8	Aqueous	E300	Anions by IC method - Water	70019	100	06/12/15 03:36 PM	IC2_150612A
	HV-8	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-08A	HV-7	Aqueous	SW8021B	Volatile Organics by GC	69989	10	06/11/15 09:08 AM	GC8_150610B
1506075-08B	HV-7	Aqueous	SW7470A	Mercury Total: Aqueous	69949	1	06/09/15 05:03 PM	CETAC2_HG_150609A
	HV-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	1	06/15/15 03:44 PM	ICP-MS4_150615A
	HV-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	50	06/15/15 01:00 PM	ICP-MS4_150615A
1506075-08C	HV-7	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 11:52 AM	TITRATOR_150611A
	HV-7	Aqueous	E300	Anions by IC method - Water	70037	100	06/15/15 02:31 PM	IC2_150615A
	HV-7	Aqueous	E300	Anions by IC method - Water	70037	1	06/15/15 12:11 PM	IC2_150615A
	HV-7	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-09A	HV-3	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/11/15 12:24 AM	GC8_150610B
1506075-09B	HV-3	Aqueous	SW7470A	Mercury Total: Aqueous	69949	1	06/09/15 05:05 PM	CETAC2_HG_150609A
	HV-3	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	500	06/15/15 01:02 PM	ICP-MS4_150615A
	HV-3	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	5	06/15/15 03:46 PM	ICP-MS4_150615A
1506075-09C	HV-3	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 12:02 PM	TITRATOR_150611A
	HV-3	Aqueous	E300	Anions by IC method - Water	70037	1000	06/15/15 03:51 PM	IC2_150615A
	HV-3	Aqueous	E300	Anions by IC method - Water	70037	1	06/15/15 12:26 PM	IC2_150615A
	HV-3	Aqueous	E300	Anions by IC method - Water	70037	100	06/15/15 02:45 PM	IC2_150615A
	HV-3	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-10A	MW-26	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/11/15 01:33 AM	GC8_150610B
1506075-10B	MW-26	Aqueous	SW7470A	Mercury Total: Aqueous	69949	1	06/09/15 05:07 PM	CETAC2_HG_150609A
	MW-26	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	50	06/15/15 01:04 PM	ICP-MS4_150615A
	MW-26	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	1	06/15/15 03:48 PM	ICP-MS4_150615A
1506075-10C	MW-26	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 12:21 PM	TITRATOR_150611A

Lab Order: 1506075
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506075-10C	MW-26	Aqueous	E300	Anions by IC method - Water	70037	1	06/15/15 12:40 PM	IC2_150615A
	MW-26	Aqueous	E300	Anions by IC method - Water	70037	10	06/15/15 03:00 PM	IC2_150615A
	MW-26	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-11A	MW-25	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/11/15 01:55 AM	GC8_150610B
1506075-11B	MW-25	Aqueous	SW7470A	Mercury Total: Aqueous	69949	1	06/09/15 05:10 PM	CETAC2_HG_150609A
	MW-25	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	50	06/15/15 01:06 PM	ICP-MS4_150615A
	MW-25	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	1	06/15/15 03:49 PM	ICP-MS4_150615A
1506075-11C	MW-25	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 01:06 PM	TITRATOR_150611A
	MW-25	Aqueous	E300	Anions by IC method - Water	70037	1	06/15/15 12:55 PM	IC2_150615A
	MW-25	Aqueous	E300	Anions by IC method - Water	70037	10	06/15/15 03:15 PM	IC2_150615A
	MW-25	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B
1506075-12A	MW-24	Aqueous	SW8021B	Volatile Organics by GC	69989	1	06/11/15 09:31 AM	GC8_150610B
1506075-12B	MW-24	Aqueous	SW7470A	Mercury Total: Aqueous	69949	1	06/09/15 05:12 PM	CETAC2_HG_150609A
	MW-24	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	50	06/15/15 01:08 PM	ICP-MS4_150615A
	MW-24	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	69972	1	06/15/15 03:51 PM	ICP-MS4_150615A
1506075-12C	MW-24	Aqueous	M2320 B	Alkalinity	69995	1	06/11/15 01:23 PM	TITRATOR_150611A
	MW-24	Aqueous	E300	Anions by IC method - Water	70037	100	06/15/15 01:09 PM	IC2_150615A
	MW-24	Aqueous	M2540C	Total Dissolved Solids	69934	1	06/09/15 09:00 AM	WC_150608B

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-11
Project:	Targa Eunice	**Lab ID:**	1506075-01
Project No:	2-0103	**Collection Date:**	06/03/15 11:15 AM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.592	0.00800	0.0200		mg/L	10	06/10/15 08:37 PM
Ethylbenzene	ND	0.0200	0.0600		mg/L	10	06/10/15 08:37 PM
Toluene	ND	0.0200	0.0600		mg/L	10	06/10/15 08:37 PM
Xylenes, Total	ND	0.0300	0.0900		mg/L	10	06/10/15 08:37 PM
Surr: a,a,a-Trifluorotoluene	92.4	0	87-113		%REC	10	06/10/15 08:37 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 02:47 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **KL**
Arsenic	0.0711	0.00200	0.00500		mg/L	1	06/12/15 04:04 PM
Barium	1.31	0.00300	0.0100		mg/L	1	06/12/15 04:04 PM
Cadmium	0.000918	0.000300	0.00100	J	mg/L	1	06/12/15 04:04 PM
Calcium	248	5.00	15.0		mg/L	50	06/15/15 03:32 PM
Chromium	0.00257	0.00200	0.00500	J	mg/L	1	06/12/15 04:04 PM
Lead	0.0120	0.000300	0.00100		mg/L	1	06/12/15 04:04 PM
Magnesium	30.6	1.00	3.00		mg/L	10	06/12/15 12:50 PM
Potassium	6.22	0.100	0.300		mg/L	1	06/12/15 04:04 PM
Selenium	0.00443	0.00200	0.00500	J	mg/L	1	06/12/15 04:04 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/12/15 04:04 PM
Sodium	79.1	1.00	3.00		mg/L	10	06/12/15 12:50 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	71.6	3.00	10.0		mg/L	10	06/12/15 01:54 PM
Sulfate	3.92	1.00	3.00		mg/L	1	06/12/15 01:40 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	278	10.0	20.0		mg/L @ pH 4.52	1	06/11/15 09:50 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	06/11/15 09:50 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	06/11/15 09:50 AM
Alkalinity, Total (As CaCO3)	278	20.0	20.0		mg/L @ pH 4.52	1	06/11/15 09:50 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	441	10.0	10.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-12
Project:	Targa Eunice	**Lab ID:**	1506075-02
Project No:	2-0103	**Collection Date:**	06/03/15 11:45 AM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/10/15 08:59 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/10/15 08:59 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/10/15 08:59 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/10/15 08:59 PM
Surr: a,a,a-Trifluorotoluene	91.5	0	87-113		%REC	1	06/10/15 08:59 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 02:50 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **KL**
Arsenic	0.0139	0.00200	0.00500		mg/L	1	06/12/15 04:10 PM
Barium	0.0983	0.00300	0.0100		mg/L	1	06/12/15 04:10 PM
Cadmium	0.000372	0.000300	0.00100	J	mg/L	1	06/12/15 04:10 PM
Calcium	1160	10.0	30.0		mg/L	100	06/12/15 12:56 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/12/15 04:10 PM
Lead	0.00181	0.000300	0.00100		mg/L	1	06/12/15 04:10 PM
Magnesium	673	10.0	30.0		mg/L	100	06/12/15 12:56 PM
Potassium	21.5	0.100	0.300		mg/L	1	06/12/15 04:10 PM
Selenium	0.0439	0.00200	0.00500		mg/L	1	06/12/15 04:10 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/12/15 04:10 PM
Sodium	2160	10.0	30.0		mg/L	100	06/12/15 12:56 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	6920	300	1000		mg/L	1000	06/12/15 03:06 PM
Sulfate	1340	100	300		mg/L	100	06/12/15 02:48 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	190	10.0	20.0		mg/L @ pH 4.51	1	06/11/15 09:58 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	06/11/15 09:58 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	06/11/15 09:58 AM
Alkalinity, Total (As CaCO3)	190	20.0	20.0		mg/L @ pH 4.51	1	06/11/15 09:58 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	15700	200	200		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-4
Project:	Targa Eunice	**Lab ID:**	1506075-03
Project No:	2-0103	**Collection Date:**	06/03/15 12:15 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/10/15 09:22 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/10/15 09:22 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/10/15 09:22 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/10/15 09:22 PM
Surr: a,a,a-Trifluorotoluene	91.5	0	87-113		%REC	1	06/10/15 09:22 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 02:52 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **KL**
Arsenic	0.0169	0.00200	0.00500		mg/L	1	06/12/15 04:16 PM
Barium	0.0454	0.00300	0.0100		mg/L	1	06/12/15 04:16 PM
Cadmium	0.000964	0.000300	0.00100	J	mg/L	1	06/12/15 04:16 PM
Calcium	469	5.00	15.0		mg/L	50	06/12/15 01:02 PM
Chromium	0.00736	0.00200	0.00500		mg/L	1	06/12/15 04:16 PM
Lead	0.0236	0.000300	0.00100		mg/L	1	06/12/15 04:16 PM
Magnesium	96.4	5.00	15.0		mg/L	50	06/12/15 01:02 PM
Potassium	9.70	0.100	0.300		mg/L	1	06/12/15 04:16 PM
Selenium	0.0546	0.00200	0.00500		mg/L	1	06/12/15 04:16 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/12/15 04:16 PM
Sodium	812	5.00	15.0		mg/L	50	06/12/15 01:02 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	440	30.0	100		mg/L	100	06/15/15 01:47 PM
Sulfate	1650	100	300		mg/L	100	06/15/15 01:47 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	611	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 10:16 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 10:16 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 10:16 AM
Alkalinity, Total (As CaCO3)	611	20.0	20.0		mg/L @ pH 4.54	1	06/11/15 10:16 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	3710	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-13
Project:	Targa Eunice	**Lab ID:**	1506075-04
Project No:	2-0103	**Collection Date:**	06/03/15 12:30 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/10/15 10:30 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/10/15 10:30 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/10/15 10:30 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/10/15 10:30 PM
Surr: a,a,a-Trifluorotoluene	91.0	0	87-113		%REC	1	06/10/15 10:30 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 02:54 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **KL**
Arsenic	0.00884	0.00200	0.00500		mg/L	1	06/12/15 04:22 PM
Barium	0.0959	0.00300	0.0100		mg/L	1	06/12/15 04:22 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/12/15 04:22 PM
Calcium	1970	10.0	30.0		mg/L	100	06/12/15 01:08 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/12/15 04:22 PM
Lead	0.000511	0.000300	0.00100	J	mg/L	1	06/12/15 04:22 PM
Magnesium	681	10.0	30.0		mg/L	100	06/12/15 01:08 PM
Potassium	25.3	10.0	30.0	J	mg/L	100	06/12/15 01:08 PM
Selenium	0.0201	0.00200	0.00500		mg/L	1	06/12/15 04:22 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/12/15 04:22 PM
Sodium	1180	10.0	30.0		mg/L	100	06/12/15 01:08 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	6520	300	1000		mg/L	1000	06/15/15 03:36 PM
Sulfate	1370	100	300		mg/L	100	06/15/15 02:02 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	206	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 10:24 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 10:24 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 10:24 AM
Alkalinity, Total (As CaCO3)	206	20.0	20.0		mg/L @ pH 4.53	1	06/11/15 10:24 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	14300	200	200		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-28
Project:	Targa Eunice	**Lab ID:**	1506075-05
Project No:	2-0103	**Collection Date:**	06/03/15 01:00 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	1.47	0.0160	0.0400		mg/L	20	06/10/15 10:53 PM
Ethylbenzene	1.24	0.0400	0.120		mg/L	20	06/10/15 10:53 PM
Toluene	ND	0.0400	0.120		mg/L	20	06/10/15 10:53 PM
Xylenes, Total	0.609	0.0600	0.180		mg/L	20	06/10/15 10:53 PM
Surr: a,a,a-Trifluorotoluene	90.1	0	87-113		%REC	20	06/10/15 10:53 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 02:56 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **KL**
Arsenic	0.160	0.00200	0.00500		mg/L	1	06/12/15 04:28 PM
Barium	6.14	0.150	0.500		mg/L	50	06/12/15 01:14 PM
Cadmium	0.000384	0.000300	0.00100	J	mg/L	1	06/12/15 04:28 PM
Calcium	291	5.00	15.0		mg/L	50	06/12/15 01:14 PM
Chromium	0.00732	0.00200	0.00500		mg/L	1	06/12/15 04:28 PM
Lead	0.00208	0.000300	0.00100		mg/L	1	06/12/15 04:28 PM
Magnesium	89.3	5.00	15.0		mg/L	50	06/12/15 01:14 PM
Potassium	4.56	0.100	0.300		mg/L	1	06/12/15 04:28 PM
Selenium	ND	0.00200	0.00500		mg/L	1	06/12/15 04:28 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/12/15 04:28 PM
Sodium	242	5.00	15.0		mg/L	50	06/12/15 01:14 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	178	3.00	10.0		mg/L	10	06/15/15 02:16 PM
Sulfate	6.80	1.00	3.00		mg/L	1	06/15/15 11:56 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	754	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 10:43 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 10:43 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 10:43 AM
Alkalinity, Total (As CaCO3)	754	20.0	20.0		mg/L @ pH 4.54	1	06/11/15 10:43 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	1030	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-23
Project:	Targa Eunice	**Lab ID:**	1506075-06
Project No:	2-0103	**Collection Date:**	06/03/15 01:30 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.0107	0.000800	0.00200		mg/L	1	06/10/15 11:16 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/10/15 11:16 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/10/15 11:16 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/10/15 11:16 PM
Surr: a,a,a-Trifluorotoluene	91.5	0	87-113		%REC	1	06/10/15 11:16 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 04:58 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **KL**
Arsenic	0.0184	0.00200	0.00500		mg/L	1	06/12/15 03:52 PM
Barium	0.0470	0.00300	0.0100		mg/L	1	06/12/15 03:52 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/12/15 03:52 PM
Calcium	228	10.0	30.0		mg/L	100	06/12/15 12:38 PM
Chromium	0.00267	0.00200	0.00500	J	mg/L	1	06/12/15 03:52 PM
Lead	0.00208	0.000300	0.00100		mg/L	1	06/12/15 03:52 PM
Magnesium	102	10.0	30.0		mg/L	100	06/12/15 12:38 PM
Potassium	15.2	0.100	0.300		mg/L	1	06/12/15 03:52 PM
Selenium	0.00492	0.00200	0.00500	J	mg/L	1	06/12/15 03:52 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/12/15 03:52 PM
Sodium	970	10.0	30.0		mg/L	100	06/12/15 12:38 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	344	30.0	100		mg/L	100	06/12/15 03:21 PM
Sulfate	556	100	300		mg/L	100	06/12/15 03:21 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	1660	10.0	20.0		mg/L @ pH 4.55	1	06/11/15 11:23 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.55	1	06/11/15 11:23 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.55	1	06/11/15 11:23 AM
Alkalinity, Total (As CaCO3)	1660	20.0	20.0		mg/L @ pH 4.55	1	06/11/15 11:23 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	3410	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	HV-8
Project:	Targa Eunice	**Lab ID:**	1506075-07
Project No:	2-0103	**Collection Date:**	06/03/15 02:00 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	06/10/15 11:39 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/10/15 11:39 PM
Toluene	ND	0.00200	0.00600		mg/L	1	06/10/15 11:39 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/10/15 11:39 PM
Surr: a,a,a-Trifluorotoluene	92.7	0	87-113		%REC	1	06/10/15 11:39 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 05:00 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **KL**
Arsenic	0.0171	0.00200	0.00500		mg/L	1	06/12/15 04:34 PM
Barium	0.0968	0.00300	0.0100		mg/L	1	06/12/15 04:34 PM
Cadmium	0.000326	0.000300	0.00100	J	mg/L	1	06/12/15 04:34 PM
Calcium	420	10.0	30.0		mg/L	100	06/12/15 01:21 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/12/15 04:34 PM
Lead	ND	0.000300	0.00100		mg/L	1	06/12/15 04:34 PM
Magnesium	181	10.0	30.0		mg/L	100	06/12/15 01:21 PM
Potassium	19.7	0.100	0.300		mg/L	1	06/12/15 04:34 PM
Selenium	ND	0.00200	0.00500		mg/L	1	06/12/15 04:34 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/12/15 04:34 PM
Sodium	1030	10.0	30.0		mg/L	100	06/12/15 01:21 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	2360	30.0	100		mg/L	100	06/12/15 03:36 PM
Sulfate	345	100	300		mg/L	100	06/12/15 03:36 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	480	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 11:38 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 11:38 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 11:38 AM
Alkalinity, Total (As CaCO3)	480	20.0	20.0		mg/L @ pH 4.53	1	06/11/15 11:38 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	6370	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	HV-7
Project:	Targa Eunice	**Lab ID:**	1506075-08
Project No:	2-0103	**Collection Date:**	06/03/15 02:15 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.0337	0.00800	0.0200		mg/L	10	06/11/15 09:08 AM
Ethylbenzene	0.546	0.0200	0.0600		mg/L	10	06/11/15 09:08 AM
Toluene	ND	0.0200	0.0600		mg/L	10	06/11/15 09:08 AM
Xylenes, Total	0.120	0.0300	0.0900		mg/L	10	06/11/15 09:08 AM
Surr: a,a,a-Trifluorotoluene	91.4	0	87-113		%REC	10	06/11/15 09:08 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 05:03 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00483	0.00200	0.00500	J	mg/L	1	06/15/15 03:44 PM
Barium	0.898	0.00300	0.0100		mg/L	1	06/15/15 03:44 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/15/15 03:44 PM
Calcium	409	5.00	15.0		mg/L	50	06/15/15 01:00 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/15/15 03:44 PM
Lead	ND	0.000300	0.00100		mg/L	1	06/15/15 03:44 PM
Magnesium	234	5.00	15.0		mg/L	50	06/15/15 01:00 PM
Potassium	25.8	5.00	15.0		mg/L	50	06/15/15 01:00 PM
Selenium	ND	0.00200	0.00500		mg/L	1	06/15/15 03:44 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/15/15 03:44 PM
Sodium	452	5.00	15.0		mg/L	50	06/15/15 01:00 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	1880	30.0	100		mg/L	100	06/15/15 02:31 PM
Sulfate	8.02	1.00	3.00		mg/L	1	06/15/15 12:11 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	438	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 11:52 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 11:52 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	06/11/15 11:52 AM
Alkalinity, Total (As CaCO3)	438	20.0	20.0		mg/L @ pH 4.53	1	06/11/15 11:52 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	4970	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	HV-3
Project:	Targa Eunice	**Lab ID:**	1506075-09
Project No:	2-0103	**Collection Date:**	06/03/15 02:30 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.00280	0.000800	0.00200		mg/L	1	06/11/15 12:24 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/11/15 12:24 AM
Toluene	ND	0.00200	0.00600		mg/L	1	06/11/15 12:24 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/11/15 12:24 AM
Surr: a,a,a-Trifluorotoluene	95.4	0	87-113		%REC	1	06/11/15 12:24 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 05:05 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0134	0.0100	0.0250	J	mg/L	5	06/15/15 03:46 PM
Barium	0.0598	0.0150	0.0500		mg/L	5	06/15/15 03:46 PM
Cadmium	ND	0.00150	0.00500		mg/L	5	06/15/15 03:46 PM
Calcium	1060	50.0	150		mg/L	500	06/15/15 01:02 PM
Chromium	ND	0.0100	0.0250		mg/L	5	06/15/15 03:46 PM
Lead	ND	0.00150	0.00500		mg/L	5	06/15/15 03:46 PM
Magnesium	561	50.0	150		mg/L	500	06/15/15 01:02 PM
Potassium	45.2	0.500	1.50		mg/L	5	06/15/15 03:46 PM
Selenium	ND	0.0100	0.0250		mg/L	5	06/15/15 03:46 PM
Silver	ND	0.00500	0.0100		mg/L	5	06/15/15 03:46 PM
Sodium	2290	50.0	150		mg/L	500	06/15/15 01:02 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	6630	300	1000		mg/L	1000	06/15/15 03:51 PM
Sulfate	1130	100	300		mg/L	100	06/15/15 02:45 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	280	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 12:02 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 12:02 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 12:02 PM
Alkalinity, Total (As CaCO3)	280	20.0	20.0		mg/L @ pH 4.54	1	06/11/15 12:02 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	15100	200	200		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-26
Project:	Targa Eunice	**Lab ID:**	1506075-10
Project No:	2-0103	**Collection Date:**	06/03/15 02:45 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.00802	0.000800	0.00200		mg/L	1	06/11/15 01:33 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/11/15 01:33 AM
Toluene	ND	0.00200	0.00600		mg/L	1	06/11/15 01:33 AM
Xylenes, Total	0.00552	0.00300	0.00900	J	mg/L	1	06/11/15 01:33 AM
Surr: a,a,a-Trifluorotoluene	92.6	0	87-113		%REC	1	06/11/15 01:33 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 05:07 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0355	0.00200	0.00500		mg/L	1	06/15/15 03:48 PM
Barium	1.05	0.00300	0.0100		mg/L	1	06/15/15 03:48 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/15/15 03:48 PM
Calcium	647	5.00	15.0		mg/L	50	06/15/15 01:04 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/15/15 03:48 PM
Lead	0.00154	0.000300	0.00100		mg/L	1	06/15/15 03:48 PM
Magnesium	63.8	5.00	15.0		mg/L	50	06/15/15 01:04 PM
Potassium	5.26	0.100	0.300		mg/L	1	06/15/15 03:48 PM
Selenium	ND	0.00200	0.00500		mg/L	1	06/15/15 03:48 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/15/15 03:48 PM
Sodium	205	5.00	15.0		mg/L	50	06/15/15 01:04 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	134	3.00	10.0		mg/L	10	06/15/15 03:00 PM
Sulfate	6.02	1.00	3.00		mg/L	1	06/15/15 12:40 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	748	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 12:21 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 12:21 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 12:21 PM
Alkalinity, Total (As CaCO3)	748	20.0	20.0		mg/L @ pH 4.54	1	06/11/15 12:21 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	950	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-25
Project:	Targa Eunice	**Lab ID:**	1506075-11
Project No:	2-0103	**Collection Date:**	06/03/15 03:00 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.00150	0.000800	0.00200	J	mg/L	1	06/11/15 01:55 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	06/11/15 01:55 AM
Toluene	ND	0.00200	0.00600		mg/L	1	06/11/15 01:55 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/11/15 01:55 AM
Surr: a,a,a-Trifluorotoluene	93.6	0	87-113		%REC	1	06/11/15 01:55 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 05:10 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0215	0.00200	0.00500		mg/L	1	06/15/15 03:49 PM
Barium	1.10	0.00300	0.0100		mg/L	1	06/15/15 03:49 PM
Cadmium	0.00186	0.000300	0.00100		mg/L	1	06/15/15 03:49 PM
Calcium	320	5.00	15.0		mg/L	50	06/15/15 01:06 PM
Chromium	0.00702	0.00200	0.00500		mg/L	1	06/15/15 03:49 PM
Lead	0.00555	0.000300	0.00100		mg/L	1	06/15/15 03:49 PM
Magnesium	81.9	5.00	15.0		mg/L	50	06/15/15 01:06 PM
Potassium	4.79	0.100	0.300		mg/L	1	06/15/15 03:49 PM
Selenium	ND	0.00200	0.00500		mg/L	1	06/15/15 03:49 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/15/15 03:49 PM
Sodium	114	5.00	15.0		mg/L	50	06/15/15 01:06 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	122	3.00	10.0		mg/L	10	06/15/15 03:15 PM
Sulfate	32.1	1.00	3.00		mg/L	1	06/15/15 12:55 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	736	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 01:06 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 01:06 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 01:06 PM
Alkalinity, Total (As CaCO3)	736	20.0	20.0		mg/L @ pH 4.54	1	06/11/15 01:06 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	935	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *17-Jun-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-24
Project:	Targa Eunice	**Lab ID:**	1506075-12
Project No:	2-0103	**Collection Date:**	06/03/15 03:15 PM
Lab Order:	1506075	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.00128	0.000800	0.00200	J	mg/L	1	06/11/15 09:31 AM
Ethylbenzene	0.00263	0.00200	0.00600	J	mg/L	1	06/11/15 09:31 AM
Toluene	ND	0.00200	0.00600		mg/L	1	06/11/15 09:31 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	06/11/15 09:31 AM
Surr: a,a,a-Trifluorotoluene	89.4	0	87-113		%REC	1	06/11/15 09:31 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	ND	0.0000800	0.000200		mg/L	1	06/09/15 05:12 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0348	0.00200	0.00500		mg/L	1	06/15/15 03:51 PM
Barium	0.0644	0.00300	0.0100		mg/L	1	06/15/15 03:51 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	06/15/15 03:51 PM
Calcium	181	5.00	15.0		mg/L	50	06/15/15 01:08 PM
Chromium	ND	0.00200	0.00500		mg/L	1	06/15/15 03:51 PM
Lead	ND	0.000300	0.00100		mg/L	1	06/15/15 03:51 PM
Magnesium	143	5.00	15.0		mg/L	50	06/15/15 01:08 PM
Potassium	5.52	0.100	0.300		mg/L	1	06/15/15 03:51 PM
Selenium	ND	0.00200	0.00500		mg/L	1	06/15/15 03:51 PM
Silver	ND	0.00100	0.00200		mg/L	1	06/15/15 03:51 PM
Sodium	327	5.00	15.0		mg/L	50	06/15/15 01:08 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	552	30.0	100		mg/L	100	06/15/15 01:09 PM
Sulfate	382	100	300		mg/L	100	06/15/15 01:09 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	660	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 01:23 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 01:23 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	06/11/15 01:23 PM
Alkalinity, Total (As CaCO3)	660	20.0	20.0		mg/L @ pH 4.54	1	06/11/15 01:23 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	2100	50.0	50.0		mg/L	1	06/09/15 09:00 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_150610B

The QC data in batch 69989 applies to the following samples: 1506075-01A, 1506075-02A, 1506075-03A, 1506075-04A, 1506075-05A, 1506075-06A, 1506075-07A, 1506075-08A, 1506075-09A, 1506075-10A, 1506075-11A, 1506075-12A

Sample ID **LCS-69989** Batch ID: **69989** TestNo: **SW8021B** Units: **mg/L**
SampType: **LCS** Run ID: **GC8_150610B** Analysis Date: **6/10/2015 5:58:03 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0456	0.00200	0.0464	0	98.3	81	125			
Toluene	0.0458	0.00600	0.0464	0	98.7	84	123			
Ethylbenzene	0.0464	0.00600	0.0464	0	99.9	83	119			
Xylenes, Total	0.144	0.00900	0.139	0	103	81	117			
Surr: a,a,a-Trifluorotoluene	181		200.0		90.4	87	113			

Sample ID **MB-69989** Batch ID: **69989** TestNo: **SW8021B** Units: **mg/L**
SampType: **MBLK** Run ID: **GC8_150610B** Analysis Date: **6/10/2015 7:06:10 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00600								
Ethylbenzene	ND	0.00600								
Xylenes, Total	ND	0.00900								
Surr: a,a,a-Trifluorotoluene	183		200.0		91.5	87	113			

Sample ID **1506075-03AMS** Batch ID: **69989** TestNo: **SW8021B** Units: **mg/L**
SampType: **MS** Run ID: **GC8_150610B** Analysis Date: **6/10/2015 9:45:15 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0462	0.00200	0.0464	0	99.6	81	125			
Toluene	0.0463	0.00600	0.0464	0	99.9	84	123			
Ethylbenzene	0.0472	0.00600	0.0464	0	102	83	119			
Xylenes, Total	0.146	0.00900	0.139	0	105	81	117			
Surr: a,a,a-Trifluorotoluene	183		200.0		91.4	87	113			

Sample ID **1506075-03AMSD** Batch ID: **69989** TestNo: **SW8021B** Units: **mg/L**
SampType: **MSD** Run ID: **GC8_150610B** Analysis Date: **6/10/2015 10:07:56 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0455	0.00200	0.0464	0	98.1	81	125	1.51	20	
Toluene	0.0457	0.00600	0.0464	0	98.4	84	123	1.47	20	
Ethylbenzene	0.0467	0.00600	0.0464	0	101	83	119	1.05	20	
Xylenes, Total	0.143	0.00900	0.139	0	103	81	117	2.19	20	
Surr: a,a,a-Trifluorotoluene	184		200.0		92.2	87	113	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_150610B

Sample ID **ICV-150610**	Batch ID: **R80072**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **ICV**	Run ID: **GC8_150610B**	Analysis Date: **6/10/2015 5:12:48 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0873	0.00200	0.0928	0	94.0	80	120			
Toluene	0.0883	0.00600	0.0928	0	95.2	80	120			
Ethylbenzene	0.0904	0.00600	0.0928	0	97.4	80	120			
Xylenes, Total	0.276	0.00900	0.278	0	99.3	80	120			
Surr: a,a,a-Trifluorotoluene	181		200.0		90.6	87	113			

Sample ID **CCV1-150610**	Batch ID: **R80072**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_150610B**	Analysis Date: **6/11/2015 1:10:12 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0464	0.00200	0.0464	0	100	80	120			
Toluene	0.0464	0.00600	0.0464	0	100	80	120			
Ethylbenzene	0.0474	0.00600	0.0464	0	102	80	120			
Xylenes, Total	0.145	0.00900	0.139	0	104	80	120			
Surr: a,a,a-Trifluorotoluene	182		200.0		91.1	87	113			

Sample ID **CCV2-150610**	Batch ID: **R80072**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_150610B**	Analysis Date: **6/11/2015 6:29:21 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0451	0.00200	0.0464	0	97.2	80	120			
Toluene	0.0452	0.00600	0.0464	0	97.5	80	120			
Ethylbenzene	0.0464	0.00600	0.0464	0	100	80	120			
Xylenes, Total	0.142	0.00900	0.139	0	102	80	120			
Surr: a,a,a-Trifluorotoluene	181		200.0		90.5	87	113			

Sample ID **CCV3-150610**	Batch ID: **R80072**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_150610B**	Analysis Date: **6/11/2015 10:39:32 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0456	0.00200	0.0464	0	98.3	80	120			
Toluene	0.0456	0.00600	0.0464	0	98.3	80	120			
Ethylbenzene	0.0468	0.00600	0.0464	0	101	80	120			
Xylenes, Total	0.143	0.00900	0.139	0	103	80	120			
Surr: a,a,a-Trifluorotoluene	180		200.0		90.1	87	113			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150609A

The QC data in batch 69948 applies to the following samples: 1506075-01B, 1506075-02B, 1506075-03B, 1506075-04B, 1506075-05B

Sample ID	**MB-69948**	Batch ID:	**69948**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 2:29:36 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID	**LCS-69948**	Batch ID:	**69948**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 2:31:52 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	85	115			

Sample ID	**LCSD-69948**	Batch ID:	**69948**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 2:34:08 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00191	0.000200	0.00200	0	95.5	85	115	5.10	15	

Sample ID	**1506084-03B SD**	Batch ID:	**69948**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 2:38:41 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.00100	0	0				0	10	

Sample ID	**1506084-03B PDS**	Batch ID:	**69948**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 2:40:57 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00237	0.000200	0.00250	0	94.8	85	115			

Sample ID	**1506084-03B MS**	Batch ID:	**69948**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 2:43:12 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00188	0.000200	0.00200	0	94.0	80	120			

Sample ID	**1506084-03B MSD**	Batch ID:	**69948**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 2:45:28 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00185	0.000200	0.00200	0	92.5	80	120	1.61	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150609A

The QC data in batch 69949 applies to the following samples: 1506075-06B, 1506075-07B, 1506075-08B, 1506075-09B, 1506075-10B, 1506075-11B, 1506075-12B

Sample ID	**MB-69949**	Batch ID:	**69949**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 4:36:00 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID	**LCS-69949**	Batch ID:	**69949**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 4:40:33 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00203	0.000200	0.00200	0	102	85	115			

Sample ID	**LCSD-69949**	Batch ID:	**69949**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 4:42:49 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00207	0.000200	0.00200	0	104	85	115	1.95	15	

Sample ID	**1506096-01A SD**	Batch ID:	**69949**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 4:49:39 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.00100	0	0				0	10	

Sample ID	**1506096-01A PDS**	Batch ID:	**69949**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 4:51:54 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00244	0.000200	0.00250	0	97.6	85	115			

Sample ID	**1506096-01A MS**	Batch ID:	**69949**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 4:54:10 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00211	0.000200	0.00200	0	106	80	120			

Sample ID	**1506096-01A MSD**	Batch ID:	**69949**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 4:56:25 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00197	0.000200	0.00200	0	98.5	80	120	6.86	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150609A

Sample ID	**ICV-150608**	Batch ID:	**R80029**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 12:25:36 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00416	0.000200	0.00400	0	104	90	110			

Sample ID	**CCV2-150609**	Batch ID:	**R80029**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 1:24:40 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.000200	0.00200	0	101	90	110			

Sample ID	**CCV3-150609**	Batch ID:	**R80029**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 3:08:09 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00203	0.000200	0.00200	0	102	90	110			

Sample ID	**CCV4-150609**	Batch ID:	**R80029**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 3:35:28 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00206	0.000200	0.00200	0	103	90	110			

Sample ID	**CCV5-150609**	Batch ID:	**R80029**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 5:19:08 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00207	0.000200	0.00200	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150612A

The QC data in batch 69969 applies to the following samples: 1506075-01B, 1506075-02B, 1506075-03B, 1506075-04B, 1506075-05B, 1506075-06B, 1506075-07B

Sample ID **MB-69969** Batch ID: **69969** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS3_150612A** Analysis Date: **6/12/2015 12:14:00 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Calcium	ND	0.300								
Chromium	ND	0.00500								
Lead	ND	0.00100								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Selenium	ND	0.00500								
Silver	ND	0.00200								
Sodium	ND	0.300								

Sample ID **LCSD-69969** Batch ID: **69969** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS3_150612A** Analysis Date: **6/12/2015 12:26:00 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.203	0.00500	0.200	0	102	80	120	0.931	15	
Barium	0.198	0.0100	0.200	0	99.2	80	120	2.93	15	
Cadmium	0.203	0.00100	0.200	0	102	80	120	1.90	15	
Calcium	5.17	0.300	5.00	0	103	80	120	7.96	15	
Chromium	0.204	0.00500	0.200	0	102	80	120	2.09	15	
Lead	0.205	0.00100	0.200	0	103	80	120	3.16	15	
Magnesium	4.88	0.300	5.00	0	97.6	80	120	6.47	15	
Potassium	4.88	0.300	5.00	0	97.6	80	120	5.80	15	
Selenium	0.207	0.00500	0.200	0	104	80	120	0.769	15	
Silver	0.209	0.00200	0.200	0	104	80	120	2.79	15	
Sodium	5.11	0.300	5.00	0	102	80	120	6.26	15	

Sample ID **1506075-06B SD** Batch ID: **69969** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS3_150612A** Analysis Date: **6/12/2015 12:44:00 PM** Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	227	150	0	228				0.747	10	
Magnesium	106	150	0	102				3.60	10	
Sodium	970	150	0	970				0.051	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150612A

Sample ID **1506075-06B PDS**	Batch ID: **69969**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **PDS**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 1:45:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	764	30.0	500	228	107	80	120			
Magnesium	644	30.0	500	102	108	80	120			
Sodium	1510	30.0	500	970	108	80	120			

Sample ID **1506075-06B MS**	Batch ID: **69969**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MS**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 1:51:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.237	0.500	0.200	0	119	80	120			
Barium	0.260	1.00	0.200	0	130	80	120			S
Cadmium	0.197	0.100	0.200	0	98.4	80	120			
Calcium	243	30.0	5.00	228	298	80	120			S
Chromium	0.226	0.500	0.200	0	113	80	120			
Lead	0.217	0.100	0.200	0	109	80	120			
Magnesium	115	30.0	5.00	102	256	80	120			S
Potassium	19.7	30.0	5.00	14.3	108	80	120			
Selenium	0.238	0.500	0.200	0	119	80	120			
Silver	0.218	0.200	0.200	0	109	80	120			
Sodium	1020	30.0	5.00	970	1100	80	120			S

Sample ID **1506075-06B MSD**	Batch ID: **69969**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 1:57:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.217	0.500	0.200	0	109	80	120	8.71	15	
Barium	0.245	1.00	0.200	0	122	80	120	6.14	15	S
Cadmium	0.207	0.100	0.200	0	103	80	120	4.96	15	
Calcium	225	30.0	5.00	228	-64.0	80	120	7.73	15	S
Chromium	0.204	0.500	0.200	0	102	80	120	10.4	15	
Lead	0.206	0.100	0.200	0	103	80	120	5.10	15	
Magnesium	106	30.0	5.00	102	76.0	80	120	8.14	15	S
Potassium	18.2	30.0	5.00	14.3	79.0	80	120	7.54	15	S
Selenium	0.204	0.500	0.200	0	102	80	120	15.2	15	
Silver	0.207	0.200	0.200	0	103	80	120	5.14	15	
Sodium	957	30.0	5.00	970	-268	80	120	6.90	15	S

Sample ID **LCS-69969**	Batch ID: **69969**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCS**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 2:03:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0	103	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150612A

Sample ID **LCS-69969**	Batch ID: **69969**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCS**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 2:03:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.204	0.0100	0.200	0	102	80	120			
Cadmium	0.207	0.00100	0.200	0	103	80	120			
Calcium	4.78	0.300	5.00	0	95.5	80	120			
Chromium	0.208	0.00500	0.200	0	104	80	120			
Lead	0.212	0.00100	0.200	0	106	80	120			
Magnesium	4.58	0.300	5.00	0	91.5	80	120			
Potassium	4.60	0.300	5.00	0	92.1	80	120			
Selenium	0.209	0.00500	0.200	0	104	80	120			
Silver	0.215	0.00200	0.200	0	107	80	120			
Sodium	4.80	0.300	5.00	0	95.9	80	120			

Sample ID **1506075-06B SD**	Batch ID: **69969**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **SD**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 3:58:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0172	0.0250	0	0.0184				6.75	10	
Barium	0.0426	0.0500	0	0.0470				9.92	10	
Cadmium	0	0.00500	0	0				0	10	
Chromium	0	0.0250	0	0.00267				0	10	
Lead	0.00194	0.00500	0	0.00208				6.71	10	
Potassium	13.9	1.50	0	15.2				8.61	10	
Selenium	0	0.0250	0	0.00492				0	10	
Silver	0	0.0100	0	0				0	10	

Sample ID **1506075-06B PDS**	Batch ID: **69969**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **PDS**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 4:57:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.218	0.00500	0.200	0.0184	99.9	80	120			
Barium	0.245	0.0100	0.200	0.0470	98.8	80	120			
Cadmium	0.179	0.00100	0.200	0	89.3	80	120			
Chromium	0.199	0.00500	0.200	0.00267	98.3	80	120			
Lead	0.222	0.00100	0.200	0.00208	110	80	120			
Potassium	18.8	0.300	5.00	15.2	73.6	80	120			S
Selenium	0.202	0.00500	0.200	0.00492	98.4	80	120			
Silver	0.182	0.00200	0.200	0	91.2	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150612A

Sample ID **ICV1-150612**	Batch ID: **R80100**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 11:56:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0984	0.00500	0.100	0	98.4	90	110			
Barium	0.0959	0.0100	0.100	0	95.9	90	110			
Cadmium	0.0970	0.00100	0.100	0	97.0	90	110			
Calcium	2.43	0.300	2.50	0	97.2	90	110			
Chromium	0.102	0.00500	0.100	0	102	90	110			
Lead	0.100	0.00100	0.100	0	100	90	110			
Magnesium	2.42	0.300	2.50	0	96.8	90	110			
Potassium	2.42	0.300	2.50	0	96.8	90	110			
Selenium	0.0988	0.00500	0.100	0	98.8	90	110			
Silver	0.103	0.00200	0.100	0	103	90	110			
Sodium	2.45	0.300	2.50	0	97.8	90	110			

Sample ID **ILCVL-150612**	Batch ID: **R80100**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 12:08:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00521	0.00500	0.00500	0	104	70	130			
Barium	0.00522	0.0100	0.00500	0	104	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Calcium	0.0969	0.300	0.100	0	96.9	70	130			
Chromium	0.00552	0.00500	0.00500	0	110	70	130			
Lead	0.00107	0.00100	0.00100	0	107	70	130			
Magnesium	0.101	0.300	0.100	0	101	70	130			
Potassium	0.0931	0.300	0.100	0	93.1	70	130			
Selenium	0.00546	0.00500	0.00500	0	109	70	130			
Silver	0.00222	0.00200	0.00200	0	111	70	130			
Sodium	0.0898	0.300	0.100	0	89.8	70	130			

Sample ID **CCV1-150612**	Batch ID: **R80100**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 2:09:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0	103	90	110			
Barium	0.204	0.0100	0.200	0	102	90	110			
Cadmium	0.208	0.00100	0.200	0	104	90	110			
Calcium	5.34	0.300	5.00	0	107	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.214	0.00100	0.200	0	107	90	110			
Magnesium	5.08	0.300	5.00	0	102	90	110			
Potassium	5.15	0.300	5.00	0	103	90	110			
Selenium	0.209	0.00500	0.200	0	105	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150612A

Sample ID **CCV1-150612**	Batch ID: **R80100**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 2:09:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.207	0.00200	0.200	0	104	90	110			
Sodium	5.35	0.300	5.00	0	107	90	110			

Sample ID **LCVL1-150612**	Batch ID: **R80100**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 2:21:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00538	0.00500	0.00500	0	108	70	130			
Barium	0.00529	0.0100	0.00500	0	106	70	130			
Cadmium	0.00113	0.00100	0.00100	0	113	70	130			
Calcium	0.0960	0.300	0.100	0	96.0	70	130			
Chromium	0.00556	0.00500	0.00500	0	111	70	130			
Lead	0.00115	0.00100	0.00100	0	115	70	130			
Magnesium	0.101	0.300	0.100	0	101	70	130			
Potassium	0.0912	0.300	0.100	0	91.2	70	130			
Selenium	0.00554	0.00500	0.00500	0	111	70	130			
Silver	0.00236	0.00200	0.00200	0	118	70	130			
Sodium	0.0848	0.300	0.100	0	84.8	70	130			

Sample ID **CCV2-150612**	Batch ID: **R80100**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 3:34:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0	103	90	110			
Barium	0.206	0.0100	0.200	0	103	90	110			
Cadmium	0.210	0.00100	0.200	0	105	90	110			
Chromium	0.206	0.00500	0.200	0	103	90	110			
Lead	0.215	0.00100	0.200	0	107	90	110			
Potassium	5.20	0.300	5.00	0	104	90	110			
Selenium	0.211	0.00500	0.200	0	105	90	110			
Silver	0.208	0.00200	0.200	0	104	90	110			

Sample ID **LCVL2-150612**	Batch ID: **R80100**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_150612A**	Analysis Date: **6/12/2015 3:46:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00524	0.00500	0.00500	0	105	70	130			
Barium	0.00508	0.0100	0.00500	0	102	70	130			
Cadmium	0.00114	0.00100	0.00100	0	114	70	130			
Chromium	0.00542	0.00500	0.00500	0	108	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_150612A

Sample ID	**LCVL2-150612**	Batch ID:	**R80100**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS3_150612A**	Analysis Date:	**6/12/2015 3:46:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	0.0906	0.300	0.100	0	90.6	70	130			
Selenium	0.00561	0.00500	0.00500	0	112	70	130			
Silver	0.00230	0.00200	0.00200	0	115	70	130			

Sample ID	**CCV3-150612**	Batch ID:	**R80100**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS3_150612A**	Analysis Date:	**6/12/2015 5:03:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.207	0.00500	0.200	0	104	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Cadmium	0.210	0.00100	0.200	0	105	90	110			
Chromium	0.212	0.00500	0.200	0	106	90	110			
Lead	0.214	0.00100	0.200	0	107	90	110			
Potassium	5.12	0.300	5.00	0	102	90	110			
Selenium	0.208	0.00500	0.200	0	104	90	110			
Silver	0.218	0.00200	0.200	0	109	90	110			

Sample ID	**LCVL3-150612**	Batch ID:	**R80100**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS3_150612A**	Analysis Date:	**6/12/2015 5:15:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00535	0.00500	0.00500	0	107	70	130			
Barium	0.00521	0.0100	0.00500	0	104	70	130			
Cadmium	0.00115	0.00100	0.00100	0	115	70	130			
Chromium	0.00550	0.00500	0.00500	0	110	70	130			
Lead	0.00111	0.00100	0.00100	0	111	70	130			
Potassium	0.0837	0.300	0.100	0	83.7	70	130			
Selenium	0.00531	0.00500	0.00500	0	106	70	130			
Silver	0.00228	0.00200	0.00200	0	114	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150615A

The QC data in batch 69972 applies to the following samples: 1506075-08B, 1506075-09B, 1506075-10B, 1506075-11B, 1506075-12B

Sample ID	**MB-69972**	Batch ID:	**69972**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 12:48:00 PM**	Prep Date:	**6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Calcium	ND	0.300								
Chromium	ND	0.00500								
Lead	ND	0.00100								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Selenium	ND	0.00500								
Silver	ND	0.00200								
Sodium	ND	0.300								

Sample ID	**LCS-69972**	Batch ID:	**69972**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 12:50:00 PM**	Prep Date:	**6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.207	0.00500	0.200	0	104	80	120			
Barium	0.207	0.0100	0.200	0	103	80	120			
Cadmium	0.210	0.00100	0.200	0	105	80	120			
Calcium	4.46	0.300	5.00	0	89.3	80	120			
Chromium	0.212	0.00500	0.200	0	106	80	120			
Lead	0.210	0.00100	0.200	0	105	80	120			
Magnesium	4.70	0.300	5.00	0	94.0	80	120			
Potassium	4.69	0.300	5.00	0	93.7	80	120			
Selenium	0.206	0.00500	0.200	0	103	80	120			
Silver	0.214	0.00200	0.200	0	107	80	120			
Sodium	4.86	0.300	5.00	0	97.1	80	120			

Sample ID	**LCSD-69972**	Batch ID:	**69972**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 12:52:00 PM**	Prep Date:	**6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.207	0.00500	0.200	0	104	80	120	0.052	15	
Barium	0.206	0.0100	0.200	0	103	80	120	0.472	15	
Cadmium	0.212	0.00100	0.200	0	106	80	120	0.951	15	
Calcium	4.81	0.300	5.00	0	96.3	80	120	7.53	15	
Chromium	0.213	0.00500	0.200	0	106	80	120	0.233	15	
Lead	0.210	0.00100	0.200	0	105	80	120	0.040	15	
Magnesium	5.11	0.300	5.00	0	102	80	120	8.43	15	
Potassium	5.06	0.300	5.00	0	101	80	120	7.75	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150615A

Sample ID	**LCSD-69972**	Batch ID:	**69972**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 12:52:00 PM**	Prep Date:	**6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.206	0.00500	0.200	0	103	80	120	0.073	15	
Silver	0.220	0.00200	0.200	0	110	80	120	3.03	15	
Sodium	5.37	0.300	5.00	0	107	80	120	10.0	15	

Sample ID	**1506105-19A SD**	Batch ID:	**69972**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 12:58:00 PM**	Prep Date:	**6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	0.0250	0	0.00201				0	10	
Barium	0.125	0.0500	0	0.123				1.59	10	
Cadmium	0	0.00500	0	0.000433				0	10	
Chromium	0	0.0250	0	0.00284				0	10	
Lead	0	0.00500	0	0.000740				0	10	
Selenium	0	0.0250	0	0				0	10	
Silver	0	0.0100	0	0				0	10	

Sample ID	**1506105-19A PDS**	Batch ID:	**69972**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 1:17:00 PM**	Prep Date:	**6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.194	0.00500	0.200	0.00201	96.2	80	120			
Barium	0.312	0.0100	0.200	0.123	94.8	80	120			
Cadmium	0.190	0.00100	0.200	0.000433	94.8	80	120			
Chromium	0.199	0.00500	0.200	0.00284	98.0	80	120			
Lead	0.203	0.00100	0.200	0.000740	101	80	120			
Selenium	0.192	0.00500	0.200	0	95.9	80	120			
Silver	0.194	0.00200	0.200	0	97.1	80	120			

Sample ID	**1506105-19A MS**	Batch ID:	**69972**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 1:19:00 PM**	Prep Date:	**6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0.00201	101	80	120			
Barium	0.323	0.0100	0.200	0.123	100	80	120			
Cadmium	0.197	0.00100	0.200	0.000433	98.2	80	120			
Calcium	374	0.300	5.00	375	-23.0	80	120			S
Chromium	0.203	0.00500	0.200	0.00284	100	80	120			
Lead	0.211	0.00100	0.200	0.000740	105	80	120			
Magnesium	161	0.300	5.00	159	31.4	80	120			S
Potassium	31.5	0.300	5.00	27.0	89.9	80	120			
Selenium	0.202	0.00500	0.200	0	101	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150615A

Sample ID **1506105-19A MS**	Batch ID: **69972**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MS**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 1:19:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.197	0.00200	0.200	0	98.3	80	120			
Sodium	827	0.300	5.00	826	11.7	80	120			S

Sample ID **1506105-19A MSD**	Batch ID: **69972**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 1:21:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0.00201	101	80	120	0.192	15	
Barium	0.330	0.0100	0.200	0.123	104	80	120	2.10	15	
Cadmium	0.199	0.00100	0.200	0.000433	99.2	80	120	1.01	15	
Calcium	389	0.300	5.00	375	271	80	120	3.85	15	S
Chromium	0.203	0.00500	0.200	0.00284	100	80	120	0.133	15	
Lead	0.212	0.00100	0.200	0.000740	106	80	120	0.307	15	
Magnesium	166	0.300	5.00	159	141	80	120	3.33	15	S
Potassium	32.5	0.300	5.00	27.0	109	80	120	2.93	15	
Selenium	0.202	0.00500	0.200	0	101	80	120	0.254	15	
Silver	0.201	0.00200	0.200	0	101	80	120	2.50	15	
Sodium	846	0.300	5.00	826	398	80	120	2.31	15	S

Sample ID **1506105-19A SD**	Batch ID: **69972**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **SD**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 3:30:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	365	75.0	0	372				1.81	10	
Magnesium	166	75.0	0	166				0.119	10	
Potassium	32.3	75.0	0	28.7				11.8	10	R
Sodium	899	75.0	0	874				2.85	10	

Sample ID **1506105-19A PDS**	Batch ID: **69972**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **PDS**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 3:34:00 PM**	Prep Date: **6/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	599	15.0	250	372	90.9	80	120			
Magnesium	417	15.0	250	166	101	80	120			
Potassium	278	15.0	250	28.7	99.6	80	120			
Sodium	1170	15.0	250	874	119	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150615A

Sample ID **ICV-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 12:38:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0974	0.00500	0.100	0	97.4	90	110			
Barium	0.0980	0.0100	0.100	0	98.0	90	110			
Cadmium	0.0989	0.00100	0.100	0	98.9	90	110			
Calcium	2.27	0.300	2.50	0	90.9	90	110			
Chromium	0.104	0.00500	0.100	0	104	90	110			
Lead	0.101	0.00100	0.100	0	101	90	110			
Magnesium	2.42	0.300	2.50	0	96.9	90	110			
Potassium	2.43	0.300	2.50	0	97.2	90	110			
Selenium	0.0968	0.00500	0.100	0	96.8	90	110			
Silver	0.106	0.00200	0.100	0	106	90	110			
Sodium	2.50	0.300	2.50	0	100	90	110			

Sample ID **LCVL-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 12:42:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00514	0.00500	0.00500	0	103	70	130			
Barium	0.00518	0.0100	0.00500	0	104	70	130			
Cadmium	0.00111	0.00100	0.00100	0	110	70	130			
Calcium	0.0818	0.300	0.100	0	81.8	70	130			
Chromium	0.00556	0.00500	0.00500	0	111	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			
Magnesium	0.0978	0.300	0.100	0	97.8	70	130			
Potassium	0.103	0.300	0.100	0	103	70	130			
Selenium	0.00495	0.00500	0.00500	0	99.1	70	130			
Silver	0.00227	0.00200	0.00200	0	114	70	130			
Sodium	0.112	0.300	0.100	0	112	70	130			

Sample ID **CCV1-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 1:24:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.195	0.00500	0.200	0	97.7	90	110			
Barium	0.196	0.0100	0.200	0	97.8	90	110			
Cadmium	0.198	0.00100	0.200	0	99.2	90	110			
Calcium	4.75	0.300	5.00	0	95.0	90	110			
Chromium	0.201	0.00500	0.200	0	101	90	110			
Lead	0.203	0.00100	0.200	0	101	90	110			
Magnesium	5.01	0.300	5.00	0	100	90	110			
Potassium	4.99	0.300	5.00	0	99.7	90	110			
Selenium	0.197	0.00500	0.200	0	98.4	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150615A

Sample ID **CCV1-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 1:24:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.201	0.00200	0.200	0	101	90	110			
Sodium	5.46	0.300	5.00	0	109	90	110			

Sample ID **LCVL1-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 1:39:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00508	0.00500	0.00500	0	102	70	130			
Barium	0.00511	0.0100	0.00500	0	102	70	130			
Cadmium	0.00105	0.00100	0.00100	0	105	70	130			
Calcium	0.0857	0.300	0.100	0	85.7	70	130			
Chromium	0.00548	0.00500	0.00500	0	110	70	130			
Lead	0.00101	0.00100	0.00100	0	101	70	130			
Magnesium	0.101	0.300	0.100	0	101	70	130			
Potassium	0.106	0.300	0.100	0	106	70	130			
Selenium	0.00490	0.00500	0.00500	0	98.0	70	130			
Silver	0.00219	0.00200	0.00200	0	110	70	130			
Sodium	0.174	0.300	0.100	0	174	70	130			S

Sample ID **CCV2-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 2:21:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.193	0.00500	0.200	0	96.7	90	110			
Barium	0.201	0.0100	0.200	0	100	90	110			
Cadmium	0.205	0.00100	0.200	0	103	90	110			
Calcium	4.65	0.300	5.00	0	93.0	90	110			
Chromium	0.205	0.00500	0.200	0	102	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Potassium	4.98	0.300	5.00	0	99.5	90	110			
Selenium	0.192	0.00500	0.200	0	95.9	90	110			
Silver	0.211	0.00200	0.200	0	105	90	110			

Sample ID **LCVL2-150615**	Batch ID: **R80114**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_150615A**	Analysis Date: **6/15/2015 2:55:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00503	0.00500	0.00500	0	101	70	130			
Barium	0.00503	0.0100	0.00500	0	101	70	130			
Cadmium	0.00102	0.00100	0.00100	0	102	70	130			
Calcium	0.0791	0.300	0.100	0	79.1	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150615A

Sample ID	**LCVL2-150615**	Batch ID:	**R80114**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 2:55:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00552	0.00500	0.00500	0	110	70	130			
Lead	0.00101	0.00100	0.00100	0	101	70	130			
Potassium	0.116	0.300	0.100	0	116	70	130			
Selenium	0.00516	0.00500	0.00500	0	103	70	130			
Silver	0.00224	0.00200	0.00200	0	112	70	130			

Sample ID	**CCV3-140402**	Batch ID:	**R80114**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 4:11:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.193	0.00500	0.200	0	96.7	90	110			
Barium	0.197	0.0100	0.200	0	98.5	90	110			
Cadmium	0.207	0.00100	0.200	0	104	90	110			
Calcium	4.67	0.300	5.00	0	93.5	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			
Potassium	4.95	0.300	5.00	0	99.1	90	110			
Selenium	0.188	0.00500	0.200	0	94.2	90	110			
Silver	0.215	0.00200	0.200	0	107	90	110			

Sample ID	**LCVL3-140402**	Batch ID:	**R80114**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150615A**	Analysis Date:	**6/15/2015 4:38:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00493	0.00500	0.00500	0	98.5	70	130			
Barium	0.00517	0.0100	0.00500	0	103	70	130			
Cadmium	0.00108	0.00100	0.00100	0	108	70	130			
Calcium	0.0815	0.300	0.100	0	81.5	70	130			
Chromium	0.00549	0.00500	0.00500	0	110	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Potassium	0.103	0.300	0.100	0	103	70	130			
Selenium	0.00474	0.00500	0.00500	0	94.7	70	130			
Silver	0.00225	0.00200	0.00200	0	112	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150612A

The QC data in batch 70019 applies to the following samples: 1506075-01C, 1506075-02C, 1506075-06C, 1506075-07C

Sample ID **LCS-70019** Batch ID: **70019** TestNo: **E300** Units: **mg/L**
SampType: **LCS** Run ID: **IC2_150612A** Analysis Date: **6/12/2015 9:14:16 AM** Prep Date: **6/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.2	1.00	10.00	0	102	90	110			
Sulfate	31.1	3.00	30.00	0	104	90	110			

Sample ID **LCSD-70019** Batch ID: **70019** TestNo: **E300** Units: **mg/L**
SampType: **LCSD** Run ID: **IC2_150612A** Analysis Date: **6/12/2015 9:28:53 AM** Prep Date: **6/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110	0.315	20	
Sulfate	30.6	3.00	30.00	0	102	90	110	1.67	20	

Sample ID **MB-70019** Batch ID: **70019** TestNo: **E300** Units: **mg/L**
SampType: **MBLK** Run ID: **IC2_150612A** Analysis Date: **6/12/2015 9:43:29 AM** Prep Date: **6/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID **1506091-01AMS** Batch ID: **70019** TestNo: **E300** Units: **mg/L**
SampType: **MS** Run ID: **IC2_150612A** Analysis Date: **6/12/2015 12:21:12 PM** Prep Date: **6/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	335	10.0	200.0	136.6	99.0	90	110			
Sulfate	267	30.0	200.0	56.78	105	90	110			

Sample ID **1506091-01AMSD** Batch ID: **70019** TestNo: **E300** Units: **mg/L**
SampType: **MSD** Run ID: **IC2_150612A** Analysis Date: **6/12/2015 12:35:48 PM** Prep Date: **6/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	334	10.0	200.0	136.6	98.9	90	110	0.071	20	
Sulfate	269	30.0	200.0	56.78	106	90	110	0.779	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150612A

Sample ID **ICV-150612**	Batch ID: **R80101**	TestNo: **E300**	Units: **mg/L**
SampType: **ICV**	Run ID: **IC2_150612A**	Analysis Date: **6/12/2015 8:55:24 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25.2	1.00	25.00	0	101	90	110			
Sulfate	77.7	3.00	75.00	0	104	90	110			

Sample ID **CCV1-150612**	Batch ID: **R80101**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_150612A**	Analysis Date: **6/12/2015 1:19:38 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Sulfate	30.8	3.00	30.00	0	103	90	110			

Sample ID **CCV2-150612**	Batch ID: **R80101**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_150612A**	Analysis Date: **6/12/2015 3:52:13 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.2	1.00	10.00	0	102	90	110			
Sulfate	31.4	3.00	30.00	0	105	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150615A

The QC data in batch 70037 applies to the following samples: 1506075-03C, 1506075-04C, 1506075-05C, 1506075-08C, 1506075-09C, 1506075-10C, 1506075-11C, 1506075-12C

Sample ID **LCS-70037** Batch ID: **70037** TestNo: **E300** Units: **mg/L**
SampType: **LCS** Run ID: **IC2_150615A** Analysis Date: **6/15/2015 9:36:06 AM** Prep Date: **6/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Sulfate	30.7	3.00	30.00	0	102	90	110			

Sample ID **LCSD-70037** Batch ID: **70037** TestNo: **E300** Units: **mg/L**
SampType: **LCSD** Run ID: **IC2_150615A** Analysis Date: **6/15/2015 9:50:42 AM** Prep Date: **6/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.72	1.00	10.00	0	97.2	90	110	3.44	20	
Sulfate	30.8	3.00	30.00	0	103	90	110	0.376	20	

Sample ID **MB-70037** Batch ID: **70037** TestNo: **E300** Units: **mg/L**
SampType: **MBLK** Run ID: **IC2_150615A** Analysis Date: **6/15/2015 10:05:19 AM** Prep Date: **6/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID **1506075-09CMS** Batch ID: **70037** TestNo: **E300** Units: **mg/L**
SampType: **MS** Run ID: **IC2_150615A** Analysis Date: **6/15/2015 4:26:06 PM** Prep Date: **6/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	26100	1000	20000	6628	97.5	90	110			
Sulfate	22500	3000	20000	1141	107	90	110			

Sample ID **1506075-09CMSD** Batch ID: **70037** TestNo: **E300** Units: **mg/L**
SampType: **MSD** Run ID: **IC2_150615A** Analysis Date: **6/15/2015 4:40:43 PM** Prep Date: **6/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	26200	1000	20000	6628	97.7	90	110	0.126	20	
Sulfate	22500	3000	20000	1141	107	90	110	0.332	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150615A

Sample ID **ICV-150615**	Batch ID: **R80120**	TestNo: **E300**	Units: **mg/L**
SampType: **ICV**	Run ID: **IC2_150615A**	Analysis Date: **6/15/2015 9:08:12 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.0	1.00	25.00	0	96.0	90	110			
Sulfate	76.4	3.00	75.00	0	102	90	110			

Sample ID **CCV1-150615**	Batch ID: **R80120**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_150615A**	Analysis Date: **6/15/2015 1:24:29 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.79	1.00	10.00	0	97.9	90	110			
Sulfate	30.8	3.00	30.00	0	103	90	110			

Sample ID **CCV2-150615**	Batch ID: **R80120**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_150615A**	Analysis Date: **6/15/2015 4:55:19 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.72	1.00	10.00	0	97.2	90	110			
Sulfate	31.1	3.00	30.00	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_150611A

The QC data in batch 69995 applies to the following samples: 1506075-01C, 1506075-02C, 1506075-03C, 1506075-04C, 1506075-05C, 1506075-06C, 1506075-07C, 1506075-08C, 1506075-09C, 1506075-10C, 1506075-11C, 1506075-12C

Sample ID **MB-69995** Batch ID: **69995** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
SampType: **MBLK** Run ID: **TITRATOR_150611A** Analysis Date: **6/11/2015 9:37:00 AM** Prep Date: **6/11/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID **LCS-69995** Batch ID: **69995** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
SampType: **LCS** Run ID: **TITRATOR_150611A** Analysis Date: **6/11/2015 9:42:00 AM** Prep Date: **6/11/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	52.9	20.0	50.00	0	106	74	129			

Sample ID **1506075-10C DUP** Batch ID: **69995** TestNo: **M2320 B** Units: **mg/L @ pH 4.54**
SampType: **DUP** Run ID: **TITRATOR_150611A** Analysis Date: **6/11/2015 12:47:00 PM** Prep Date: **6/11/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	754	20.0	0	748.3				0.799	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	754	20.0	0	748.3				0.799	20	

Sample ID **1506075-12C DUP** Batch ID: **69995** TestNo: **M2320 B** Units: **mg/L @ pH 4.54**
SampType: **DUP** Run ID: **TITRATOR_150611A** Analysis Date: **6/11/2015 1:40:00 PM** Prep Date: **6/11/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	657	20.0	0	659.7				0.385	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	657	20.0	0	659.7				0.385	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_150611A

Sample ID **ICV-150611**	Batch ID: **R80074**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.53**
SampType: **ICV**	Run ID: **TITRATOR_150611A**	Analysis Date: **6/11/2015 9:35:00 AM**	Prep Date: **6/11/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	10.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.6	20.0	100.0	0	99.6	98	102			

Sample ID **CCV1-150611**	Batch ID: **R80074**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.53**
SampType: **CCV**	Run ID: **TITRATOR_150611A**	Analysis Date: **6/11/2015 12:28:00 PM**	Prep Date: **6/11/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	29.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	69.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.5	20.0	100.0	0	99.5	90	110			

Sample ID **CCV2-150611**	Batch ID: **R80074**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.52**
SampType: **CCV**	Run ID: **TITRATOR_150611A**	Analysis Date: **6/11/2015 1:54:00 PM**	Prep Date: **6/11/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	9.36	20.0	0							
Alkalinity, Carbonate (As CaCO3)	90.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.9	20.0	100.0	0	99.9	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1506075
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: WC_150608B

The QC data in batch 69934 applies to the following samples: 1506075-01C, 1506075-02C, 1506075-03C, 1506075-04C, 1506075-05C, 1506075-06C, 1506075-07C, 1506075-08C, 1506075-09C, 1506075-10C, 1506075-11C, 1506075-12C

Sample ID	**MB-69934**	Batch ID:	**69934**	TestNo:	**M2540C**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**WC_150608B**	Analysis Date:	**6/9/2015 9:00:00 AM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10.0								

Sample ID	**LCS-69934**	Batch ID:	**69934**	TestNo:	**M2540C**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**WC_150608B**	Analysis Date:	**6/9/2015 9:00:00 AM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	755	10.0	745.6	0	101	90	113			

Sample ID	**1506075-01C-DUP**	Batch ID:	**69934**	TestNo:	**M2540C**	Units:	**mg/L**
SampType:	**DUP**	Run ID:	**WC_150608B**	Analysis Date:	**6/9/2015 9:00:00 AM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	449	10.0	0	441.0				1.80	5	

Sample ID	**1506075-02C-DUP**	Batch ID:	**69934**	TestNo:	**M2540C**	Units:	**mg/L**
SampType:	**DUP**	Run ID:	**WC_150608B**	Analysis Date:	**6/9/2015 9:00:00 AM**	Prep Date:	**6/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	15700	200	0	15720				0.127	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

November 19, 2015

Mark Larson
Larson & Associates
507 N. Marienfeld #205
Midland, TX 79701

TEL: (432) 687-0901

FAX (432) 687-0456

Order No.: 1511112

RE: Targa Eunice

Dear Mark Larson:

DHL Analytical, Inc. received 14 sample(s) on 11/11/2015 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-15-15

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 62355

CHAIN-OF-CUSTODY

CLIENT: Larson and Associates
ADDRESS: 507 Mansfield Ste 205 Midland TX 79701
PHONE: 432-687-0901 FAX/E-MAIL:
DATA REPORTED TO: Mark Larson
ADDITIONAL REPORT COPIES TO: Kimberly Hueka

DATE: 11-10-15 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 1511112
PROJECT LOCATION OR NAME: 2-0103 Tanya Eunice
CLENT PROJECT #: 2-0103 COLLECTOR: Sarah Shissler

Authorize 5% surcharge for TRRP Report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ 1METHOD 80211 | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO 1METHOD 8015 ☐ DRO 1METHOD 8105 ☐ | VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ | RCRA ☒ TX11 ☐ ___ ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☒ | CHLORIDE ☒ ANIONS ___ ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☒ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | Ca + Mat K + Na + Sulfate

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	BTEX	TPH	GRO	VOC	SVOC	8081	8270	8321	METALS	RCRA	PH	CHLORIDE	TCLP-SVOC	TCLP-METALS	RCI	TDS	Ca+Mat K+Na+Sulfate	FIELD NOTES
MW-19	01	11-10-15	1014	W	Poly/VOA	5	X	X		X		X									X	X	X				X	X	X	
MW-20	02		1035																											
MW-1	03		1105																											
MW-7	04		1132																											
MW-5	05		1146																											
MW-6	06		1202																											
MW-16	07		1220																											
MW-15	08		1243																											
MW-21	09		110																											
MW-14	10		128																											
MW-4	11		150																											
MW-13	12		210																											
HV-8	13		233																											
HV-3	14		241																											
TOTAL																														

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☐
OTHER ☐ ___

LABORATORY USE ONLY:
RECEIVING TEMP: 3.0, 1.4 THERM #: 78
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL #: Fedex
☐ APC DELIVERY
☐ HAND DELIVERED

DHL ANALYTICAL
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№ 62355

CHAIN-OF-CUSTODY

CLIENT: Larson and Associates
ADDRESS: 507 Marienfeld Ste 205 Midland TX 79701
PHONE: 432-687-0901 FAX/E-MAIL:
DATA REPORTED TO: Mark Larson
ADDITIONAL REPORT COPIES TO: Kimberly Hurkata

DATE: 11-10-15 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 1511112
PROJECT LOCATION OR NAME: 2-0103 Targa Eunice
CLENT PROJECT #: 2-0103 COLLECTOR: Sarah Shissler

Authorize 5% surcharge for TRRP Report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ (METHOD 8021) ☐; TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐; GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐; VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐; SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐; 8081 PEST ☐ 608 PEST/PCB ☐ 8082 PCB ☐ 8270 PEST ☐; 8270 O-P PEST ☐ 8330 EXPL ☐ 8270 PCB ☐; 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐; METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐; RCRA ☒ TX11 ☐ HEX CHROM ☐ ALKALINITY ☒ ☐; PH ☐ HEX CHROM ☐ ANIONS ☐; CHLORIDE ☒ ANIONS ☐ VOC ☐ PEST ☐ HERB ☐; TCLP-SVOC ☐ VOC ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐; TCLP-METALS ☐ RCRA 8 ☐ FLASHPOINT ☐ CYANIDE ☐; RCI ☐ TOX ☐ TSS ☐ % MOISTURE ☐; TDS ☒ TSS ☐ Ca ☒ Mg ☒ K ☒ Na ☒

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒	Ca ☒	Mg ☒	K ☒	Na ☒	FIELD NOTES
MW-19	01	11-10-15	1014	W	Poly/VOA	S	X	X		X		X	X	X	X	X	
MW-20	02		1035														
MW-1	03		1105														
MW-7	04		1132														
MW-5	05		1146														
MW-6	06		1202														
MW-16	07		1220														
MW-15	08		1243														
MW-21	09		110														
MW-14	10		128														
MW-4	11		150														
MW-13	12		210														
HV-8	13		233														
HV-3	14		247														

TOTAL

RELINQUISHED BY: (Signature) DATE/TIME 11-10-15 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME 11/10/15 1850 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☐
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 3.6, 1.4 THERM #: 28
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☒ NOT USED
☒ CARRIER BILL #: Fedex
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx Express Package US Airbill

FedEx Tracking Number 8057 8763 3985

Form ID No. 0215

Recipient's Copy

Packages up to 150 lbs.

1 From

Date

Sender's Name [redacted] Phone 432 687-0[illegible]

Company [illegible] & ASSOCIATES INC

Address [illegible] MARIENFELD ST STE 200

Dept/F

City [illegible] State TX ZIP 79701-4

2 Your Internal Billing Reference

3 To

Recipient's Name J. Barker Phone 512 388-

Company DHL

Address 2300 Double Creek Dr

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Round Rock State TX ZIP 78664

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0114297417

FedEx TRK# 0215 8057 8763 3985

WED - 11 NOV 10:30A
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US
AUS

FID 844316 10NOV15 MAFA 539C2/3F56/31D0

No Signature Required
Package may be left without obtaining a signature for delivery.

Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.

address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

No

Yes
As per attached Shipper's Declaration.

Yes
Shipper's Declaration not required.

Dry Ice
Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No.

Sender
Acct. No. in Section 1 will be billed.

Recipient

Third Party

Credit Card

Cash/Check

Total Packages

Total Weight

lbs.

Credit Card Auth.

611

Rev. Date 2/12 • Part #163134 • ©1994- 2012 FedEx • PRINTED IN U.S.A. SRS

FedEx TRK# 0215 8057 8763 3930

WED - 11 NOV 10:30A
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US
AUS

FID 844316 10NOV15 MAFA 539C2/3F56/31D0

Sample Receipt Checklist

Client Name **Larson & Associates**

Date Received: **11/11/2015**

Work Order Number **1511112**

Received by **JB**

Checklist completed by: _____ 11/11/2015
Signature | Date

Reviewed by _____ 11/11/2015
Initials | Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	3.1 °C, I.4
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 8086
	Adjusted? NO		Checked by JB
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Emailed COC for signature

Corrective Action _____

DHL Analytical, Inc. **Date:** *19-Nov-15*

CLIENT: Larson & Associates
Project: Targa Eunice
Lab Order: 1511112

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method SW8021B - Volatile Organics by GC Analysis
Method E300 - Anions Analysis
Method M2320 B - Alkalinity Analysis
Method M2540C - Total Dissolved Solids Analysis

LOG IN

The samples were received and log-in performed on 11/11/2015. A total of 14 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The Chain of Custody was returned via email to obtain client signature. The samples were collected in Mountain Standard Time.

METALS ANALYSIS

For Metals Analysis, the recoveries of up to two analytes for the Matrix Spike and Matrix Spike Duplicate (1511112-04 MS/MSD) were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Metals Analysis, the recovery of Sodium for the Post Digestion Spike (1511112-04 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Repot. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Metals Analysis, the response factor of Internal Standard Bismuth 209 for Samples MW-19 and MW-14 was slightly below the method control limtis, due to matrix and confirmed by reanalysis. No further corrective action was taken.

VOLATILES ORGANICS BY GC ANALYSIS

For Volatile Organics by GC Analysis, some samples were diluted due to concentration of target analytes.

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT: Larson & Associates
Project: Targa Eunice
Lab Order: 1511112

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1511112-01	MW-19		11/10/15 10:14 AM	11/11/2015
1511112-02	MW-20		11/10/15 10:35 AM	11/11/2015
1511112-03	MW-1		11/10/15 11:05 AM	11/11/2015
1511112-04	MW-7		11/10/15 11:32 AM	11/11/2015
1511112-05	MW-5		11/10/15 11:46 AM	11/11/2015
1511112-06	MW-6		11/10/15 12:02 PM	11/11/2015
1511112-07	MW-16		11/10/15 12:20 PM	11/11/2015
1511112-08	MW-15		11/10/15 12:43 PM	11/11/2015
1511112-09	MW-21		11/10/15 01:10 PM	11/11/2015
1511112-10	MW-14		11/10/15 01:28 PM	11/11/2015
1511112-11	MW-4		11/10/15 01:50 PM	11/11/2015
1511112-12	MW-13		11/10/15 02:10 PM	11/11/2015
1511112-13	HV-8		11/10/15 02:33 PM	11/11/2015
1511112-14	HV-3		11/10/15 02:47 PM	11/11/2015

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1511112-01A	MW-19	11/10/15 10:14 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-01B	MW-19	11/10/15 10:14 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-19	11/10/15 10:14 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-19	11/10/15 10:14 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-19	11/10/15 10:14 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-01C	MW-19	11/10/15 10:14 AM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-19	11/10/15 10:14 AM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-19	11/10/15 10:14 AM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-19	11/10/15 10:14 AM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-02A	MW-20	11/10/15 10:35 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-02B	MW-20	11/10/15 10:35 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-20	11/10/15 10:35 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-20	11/10/15 10:35 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-02C	MW-20	11/10/15 10:35 AM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-20	11/10/15 10:35 AM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-20	11/10/15 10:35 AM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-03A	MW-1	11/10/15 11:05 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-03B	MW-1	11/10/15 11:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-1	11/10/15 11:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-1	11/10/15 11:05 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-03C	MW-1	11/10/15 11:05 AM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-1	11/10/15 11:05 AM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-1	11/10/15 11:05 AM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-1	11/10/15 11:05 AM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-04A	MW-7	11/10/15 11:32 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-04B	MW-7	11/10/15 11:32 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-7	11/10/15 11:32 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-7	11/10/15 11:32 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1511112-04B	MW-7	11/10/15 11:32 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-04C	MW-7	11/10/15 11:32 AM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-7	11/10/15 11:32 AM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-7	11/10/15 11:32 AM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-05A	MW-5	11/10/15 11:46 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-05B	MW-5	11/10/15 11:46 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-5	11/10/15 11:46 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-5	11/10/15 11:46 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-05C	MW-5	11/10/15 11:46 AM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-5	11/10/15 11:46 AM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-5	11/10/15 11:46 AM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-06A	MW-6	11/10/15 12:02 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-06B	MW-6	11/10/15 12:02 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-6	11/10/15 12:02 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-6	11/10/15 12:02 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-06C	MW-6	11/10/15 12:02 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-6	11/10/15 12:02 PM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-6	11/10/15 12:02 PM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-6	11/10/15 12:02 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-07A	MW-16	11/10/15 12:20 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-07B	MW-16	11/10/15 12:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-16	11/10/15 12:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-16	11/10/15 12:20 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-07C	MW-16	11/10/15 12:20 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-16	11/10/15 12:20 PM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-16	11/10/15 12:20 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-08A	MW-15	11/10/15 12:43 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-08B	MW-15	11/10/15 12:43 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1511112-08B	MW-15	11/10/15 12:43 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-15	11/10/15 12:43 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-08C	MW-15	11/10/15 12:43 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-15	11/10/15 12:43 PM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-15	11/10/15 12:43 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-09A	MW-21	11/10/15 01:10 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-09B	MW-21	11/10/15 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-21	11/10/15 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-21	11/10/15 01:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-09C	MW-21	11/10/15 01:10 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-21	11/10/15 01:10 PM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-21	11/10/15 01:10 PM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-21	11/10/15 01:10 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-10A	MW-14	11/10/15 01:28 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-10B	MW-14	11/10/15 01:28 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-14	11/10/15 01:28 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-14	11/10/15 01:28 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-14	11/10/15 01:28 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-10C	MW-14	11/10/15 01:28 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-14	11/10/15 01:28 PM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-14	11/10/15 01:28 PM	Aqueous	E300	Anion Preparation	11/12/15 08:26 AM	72287
	MW-14	11/10/15 01:28 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-11A	MW-4	11/10/15 01:50 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-11B	MW-4	11/10/15 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-4	11/10/15 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-4	11/10/15 01:50 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-11C	MW-4	11/10/15 01:50 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-4	11/10/15 01:50 PM	Aqueous	E300	Anion Preparation	11/13/15 08:40 AM	72310

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1511112-11C	MW-4	11/10/15 01:50 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-12A	MW-13	11/10/15 02:10 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-12B	MW-13	11/10/15 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-13	11/10/15 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	MW-13	11/10/15 02:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-12C	MW-13	11/10/15 02:10 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	MW-13	11/10/15 02:10 PM	Aqueous	E300	Anion Preparation	11/13/15 08:40 AM	72310
	MW-13	11/10/15 02:10 PM	Aqueous	E300	Anion Preparation	11/13/15 08:40 AM	72310
	MW-13	11/10/15 02:10 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-13A	HV-8	11/10/15 02:33 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-13B	HV-8	11/10/15 02:33 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	HV-8	11/10/15 02:33 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	HV-8	11/10/15 02:33 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-13C	HV-8	11/10/15 02:33 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	HV-8	11/10/15 02:33 PM	Aqueous	E300	Anion Preparation	11/13/15 08:40 AM	72310
	HV-8	11/10/15 02:33 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305
1511112-14A	HV-3	11/10/15 02:47 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/12/15 08:15 AM	72285
1511112-14B	HV-3	11/10/15 02:47 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	HV-3	11/10/15 02:47 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/12/15 08:36 AM	72288
	HV-3	11/10/15 02:47 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/12/15 07:06 AM	72283
1511112-14C	HV-3	11/10/15 02:47 PM	Aqueous	M2320 B	Alkalinity Preparation	11/12/15 08:20 AM	72286
	HV-3	11/10/15 02:47 PM	Aqueous	E300	Anion Preparation	11/13/15 08:40 AM	72310
	HV-3	11/10/15 02:47 PM	Aqueous	E300	Anion Preparation	11/13/15 08:40 AM	72310
	HV-3	11/10/15 02:47 PM	Aqueous	M2540C	TDS Preparation	11/12/15 01:48 PM	72305

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511112-01A	MW-19	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 10:32 AM	GC8_151112A
1511112-01B	MW-19	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 02:49 PM	CETAC2_HG_151113C
	MW-19	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 12:58 PM	ICP-MS4_151116A
	MW-19	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	500	11/16/15 03:14 PM	ICP-MS4_151116B
	MW-19	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:36 PM	ICP-MS4_151116B
1511112-01C	MW-19	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 09:44 AM	TITRATOR_151112B
	MW-19	Aqueous	E300	Anions by IC method - Water	72287	100	11/12/15 10:18 AM	IC2_151112A
	MW-19	Aqueous	E300	Anions by IC method - Water	72287	1000	11/12/15 02:33 PM	IC2_151112A
	MW-19	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-02A	MW-20	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 10:55 AM	GC8_151112A
1511112-02B	MW-20	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 02:51 PM	CETAC2_HG_151113C
	MW-20	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:38 PM	ICP-MS4_151116B
	MW-20	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 01:00 PM	ICP-MS4_151116A
1511112-02C	MW-20	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 09:59 AM	TITRATOR_151112B
	MW-20	Aqueous	E300	Anions by IC method - Water	72287	100	11/12/15 11:09 AM	IC2_151112A
	MW-20	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-03A	MW-1	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 11:17 AM	GC8_151112A
1511112-03B	MW-1	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 02:53 PM	CETAC2_HG_151113C
	MW-1	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 01:02 PM	ICP-MS4_151116A
	MW-1	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:40 PM	ICP-MS4_151116B
1511112-03C	MW-1	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 10:09 AM	TITRATOR_151112B
	MW-1	Aqueous	E300	Anions by IC method - Water	72287	10	11/12/15 11:23 AM	IC2_151112A
	MW-1	Aqueous	E300	Anions by IC method - Water	72287	100	11/12/15 02:47 PM	IC2_151112A
	MW-1	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-04A	MW-7	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 12:25 PM	GC8_151112A
1511112-04B	MW-7	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 02:56 PM	CETAC2_HG_151113C

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511112-04B	MW-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/12/15 03:25 PM	ICP-MS3_151112C
	MW-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	50	11/16/15 12:54 PM	ICP-MS4_151116A
	MW-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	50	11/12/15 04:26 PM	ICP-MS3_151112C
1511112-04C	MW-7	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 10:28 AM	TITRATOR_151112B
	MW-7	Aqueous	E300	Anions by IC method - Water	72287	10	11/12/15 10:52 AM	IC2_151112A
	MW-7	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-05A	MW-5	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 12:48 PM	GC8_151112A
1511112-05B	MW-5	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:02 PM	CETAC2_HG_151113C
	MW-5	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 01:04 PM	ICP-MS4_151116A
	MW-5	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:42 PM	ICP-MS4_151116B
1511112-05C	MW-5	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 10:45 AM	TITRATOR_151112B
	MW-5	Aqueous	E300	Anions by IC method - Water	72287	10	11/12/15 11:38 AM	IC2_151112A
	MW-5	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-06A	MW-6	Aqueous	SW8021B	Volatile Organics by GC	72285	10	11/12/15 01:11 PM	GC8_151112A
1511112-06B	MW-6	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:05 PM	CETAC2_HG_151113C
	MW-6	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:44 PM	ICP-MS4_151116B
	MW-6	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 01:06 PM	ICP-MS4_151116A
1511112-06C	MW-6	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 10:58 AM	TITRATOR_151112B
	MW-6	Aqueous	E300	Anions by IC method - Water	72287	1	11/12/15 11:52 AM	IC2_151112A
	MW-6	Aqueous	E300	Anions by IC method - Water	72287	100	11/12/15 03:02 PM	IC2_151112A
	MW-6	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-07A	MW-16	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 01:34 PM	GC8_151112A
1511112-07B	MW-16	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:07 PM	CETAC2_HG_151113C
	MW-16	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 01:08 PM	ICP-MS4_151116A
	MW-16	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:46 PM	ICP-MS4_151116B
1511112-07C	MW-16	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 11:07 AM	TITRATOR_151112B

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511112-07C	MW-16	Aqueous	E300	Anions by IC method - Water	72287	10	11/12/15 12:10 PM	IC2_151112A
	MW-16	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-08A	MW-15	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 01:56 PM	GC8_151112A
1511112-08B	MW-15	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:09 PM	CETAC2_HG_151113C
	MW-15	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 01:10 PM	ICP-MS4_151116A
	MW-15	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:48 PM	ICP-MS4_151116B
1511112-08C	MW-15	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 11:23 AM	TITRATOR_151112B
	MW-15	Aqueous	E300	Anions by IC method - Water	72287	10	11/12/15 02:09 PM	IC2_151112A
	MW-15	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-09A	MW-21	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 02:19 PM	GC8_151112A
1511112-09B	MW-21	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:21 PM	CETAC2_HG_151113C
	MW-21	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	500	11/16/15 01:12 PM	ICP-MS4_151116A
	MW-21	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:50 PM	ICP-MS4_151116B
1511112-09C	MW-21	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 11:38 AM	TITRATOR_151112B
	MW-21	Aqueous	E300	Anions by IC method - Water	72287	10	11/12/15 12:24 PM	IC2_151112A
	MW-21	Aqueous	E300	Anions by IC method - Water	72287	1000	11/12/15 03:17 PM	IC2_151112A
	MW-21	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-10A	MW-14	Aqueous	SW8021B	Volatile Organics by GC	72285	5	11/12/15 02:41 PM	GC8_151112A
1511112-10B	MW-14	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:23 PM	CETAC2_HG_151113C
	MW-14	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 01:14 PM	ICP-MS4_151116A
	MW-14	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1000	11/16/15 03:16 PM	ICP-MS4_151116B
	MW-14	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:52 PM	ICP-MS4_151116B
1511112-10C	MW-14	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 12:12 PM	TITRATOR_151112B
	MW-14	Aqueous	E300	Anions by IC method - Water	72287	100	11/12/15 03:37 PM	IC2_151112A
	MW-14	Aqueous	E300	Anions by IC method - Water	72287	1000	11/12/15 03:53 PM	IC2_151112A
	MW-14	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511112-11A	MW-4	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 03:50 PM	GC8_151112A
1511112-11B	MW-4	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:25 PM	CETAC2_HG_151113C
	MW-4	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 03:18 PM	ICP-MS4_151116B
	MW-4	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 03:53 PM	ICP-MS4_151116B
1511112-11C	MW-4	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 12:27 PM	TITRATOR_151112B
	MW-4	Aqueous	E300	Anions by IC method - Water	72310	10	11/13/15 10:39 AM	IC2_151113A
	MW-4	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-12A	MW-13	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 04:12 PM	GC8_151112A
1511112-12B	MW-13	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:27 PM	CETAC2_HG_151113C
	MW-13	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 03:20 PM	ICP-MS4_151116B
	MW-13	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 04:12 PM	ICP-MS4_151116B
1511112-12C	MW-13	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 12:36 PM	TITRATOR_151112B
	MW-13	Aqueous	E300	Anions by IC method - Water	72310	100	11/13/15 10:54 AM	IC2_151113A
	MW-13	Aqueous	E300	Anions by IC method - Water	72310	1000	11/13/15 11:48 AM	IC2_151113A
	MW-13	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-13A	HV-8	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 04:35 PM	GC8_151112A
1511112-13B	HV-8	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:30 PM	CETAC2_HG_151113C
	HV-8	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 04:14 PM	ICP-MS4_151116B
	HV-8	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 03:22 PM	ICP-MS4_151116B
1511112-13C	HV-8	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 12:50 PM	TITRATOR_151112B
	HV-8	Aqueous	E300	Anions by IC method - Water	72310	100	11/13/15 11:08 AM	IC2_151113A
	HV-8	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D
1511112-14A	HV-3	Aqueous	SW8021B	Volatile Organics by GC	72285	1	11/12/15 04:58 PM	GC8_151112A
1511112-14B	HV-3	Aqueous	SW7470A	Mercury Total: Aqueous	72283	1	11/13/15 03:32 PM	CETAC2_HG_151113C
	HV-3	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	100	11/16/15 03:24 PM	ICP-MS4_151116B
	HV-3	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72288	1	11/16/15 04:16 PM	ICP-MS4_151116B

Lab Order: 1511112
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511112-14C	HV-3	Aqueous	M2320 B	Alkalinity	72286	1	11/12/15 01:00 PM	TITRATOR_151112B
	HV-3	Aqueous	E300	Anions by IC method - Water	72310	100	11/13/15 11:23 AM	IC2_151113A
	HV-3	Aqueous	E300	Anions by IC method - Water	72310	1000	11/13/15 12:02 PM	IC2_151113A
	HV-3	Aqueous	M2540C	Total Dissolved Solids	72305	1	11/13/15 08:05 AM	WC_151112D

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-19
Project:	Targa Eunice	**Lab ID:**	1511112-01
Project No:	2-0103	**Collection Date:**	11/10/15 10:14 AM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.0291	0.000800	0.00200		mg/L	1	11/12/15 10:32 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 10:32 AM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 10:32 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 10:32 AM
Surr: a,a,a-Trifluorotoluene	94.3	0	87-113		%REC	1	11/12/15 10:32 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	0.000262	0.0000800	0.000200		mg/L	1	11/13/15 02:49 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0132	0.00200	0.00500		mg/L	1	11/16/15 03:36 PM
Barium	0.0725	0.00300	0.0100		mg/L	1	11/16/15 03:36 PM
Cadmium	0.00603	0.000300	0.00100		mg/L	1	11/16/15 03:36 PM
Calcium	1010	10.0	30.0		mg/L	100	11/16/15 12:58 PM
Chromium	0.00215	0.00200	0.00500	J	mg/L	1	11/16/15 03:36 PM
Lead	0.00357	0.000300	0.00100		mg/L	1	11/16/15 03:36 PM
Magnesium	561	10.0	30.0		mg/L	100	11/16/15 12:58 PM
Potassium	37.7	10.0	30.0		mg/L	100	11/16/15 12:58 PM
Selenium	0.00983	0.00200	0.00500		mg/L	1	11/16/15 03:36 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:36 PM
Sodium	5830	50.0	150		mg/L	500	11/16/15 03:14 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	13000	300	1000		mg/L	1000	11/12/15 02:33 PM
Sulfate	889	100	300		mg/L	100	11/12/15 10:18 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	375	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 09:44 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 09:44 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 09:44 AM
Alkalinity, Total (As CaCO3)	375	20.0	20.0		mg/L @ pH 4.53	1	11/12/15 09:44 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	25000	1000	1000		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-20
Project:	Targa Eunice	**Lab ID:**	1511112-02
Project No:	2-0103	**Collection Date:**	11/10/15 10:35 AM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 10:55 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 10:55 AM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 10:55 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 10:55 AM
Surr: a,a,a-Trifluorotoluene	99.7	0	87-113		%REC	1	11/12/15 10:55 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:51 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0468	0.00200	0.00500		mg/L	1	11/16/15 03:38 PM
Barium	0.0248	0.00300	0.0100		mg/L	1	11/16/15 03:38 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 03:38 PM
Calcium	54.2	10.0	30.0		mg/L	100	11/16/15 01:00 PM
Chromium	0.00784	0.00200	0.00500		mg/L	1	11/16/15 03:38 PM
Lead	0.000561	0.000300	0.00100	J	mg/L	1	11/16/15 03:38 PM
Magnesium	25.7	10.0	30.0	J	mg/L	100	11/16/15 01:00 PM
Potassium	46.2	10.0	30.0		mg/L	100	11/16/15 01:00 PM
Selenium	0.0160	0.00200	0.00500		mg/L	1	11/16/15 03:38 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:38 PM
Sodium	2480	10.0	30.0		mg/L	100	11/16/15 01:00 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	3090	30.0	100		mg/L	100	11/12/15 11:09 AM
Sulfate	671	100	300		mg/L	100	11/12/15 11:09 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	561	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 09:59 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 09:59 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 09:59 AM
Alkalinity, Total (As CaCO3)	561	20.0	20.0		mg/L @ pH 4.53	1	11/12/15 09:59 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	7140	200	200		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-1
Project:	Targa Eunice	**Lab ID:**	1511112-03
Project No:	2-0103	**Collection Date:**	11/10/15 11:05 AM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 11:17 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 11:17 AM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 11:17 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 11:17 AM
Surr: a,a,a-Trifluorotoluene	97.8	0	87-113		%REC	1	11/12/15 11:17 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:53 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00505	0.00200	0.00500		mg/L	1	11/16/15 03:40 PM
Barium	0.0697	0.00300	0.0100		mg/L	1	11/16/15 03:40 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 03:40 PM
Calcium	268	10.0	30.0		mg/L	100	11/16/15 01:02 PM
Chromium	0.0264	0.00200	0.00500		mg/L	1	11/16/15 03:40 PM
Lead	0.000937	0.000300	0.00100	J	mg/L	1	11/16/15 03:40 PM
Magnesium	115	10.0	30.0		mg/L	100	11/16/15 01:02 PM
Potassium	10.4	0.100	0.300		mg/L	1	11/16/15 03:40 PM
Selenium	0.00355	0.00200	0.00500	J	mg/L	1	11/16/15 03:40 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:40 PM
Sodium	298	10.0	30.0		mg/L	100	11/16/15 01:02 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	863	30.0	100		mg/L	100	11/12/15 02:47 PM
Sulfate	361	10.0	30.0		mg/L	10	11/12/15 11:23 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	372	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 10:09 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 10:09 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 10:09 AM
Alkalinity, Total (As CaCO3)	372	20.0	20.0		mg/L @ pH 4.52	1	11/12/15 10:09 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	2600	50.0	50.0		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-7
Project:	Targa Eunice	**Lab ID:**	1511112-04
Project No:	2-0103	**Collection Date:**	11/10/15 11:32 AM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 12:25 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 12:25 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 12:25 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 12:25 PM
Surr: a,a,a-Trifluorotoluene	97.9	0	87-113		%REC	1	11/12/15 12:25 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:56 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **KL**
Arsenic	0.0115	0.00200	0.00500		mg/L	1	11/12/15 03:25 PM
Barium	0.0434	0.00300	0.0100		mg/L	1	11/12/15 03:25 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/12/15 03:25 PM
Calcium	171	5.00	15.0		mg/L	50	11/12/15 04:26 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/12/15 03:25 PM
Lead	0.00131	0.000300	0.00100		mg/L	1	11/12/15 03:25 PM
Magnesium	32.2	5.00	15.0		mg/L	50	11/12/15 04:26 PM
Potassium	6.57	0.100	0.300		mg/L	1	11/12/15 03:25 PM
Selenium	0.00822	0.00200	0.00500		mg/L	1	11/12/15 03:25 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/12/15 03:25 PM
Sodium	219	5.00	15.0		mg/L	50	11/16/15 12:54 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	177	3.00	10.0		mg/L	10	11/12/15 10:52 AM
Sulfate	226	10.0	30.0		mg/L	10	11/12/15 10:52 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	332	10.0	20.0		mg/L @ pH 4.51	1	11/12/15 10:28 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	11/12/15 10:28 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	11/12/15 10:28 AM
Alkalinity, Total (As CaCO3)	332	20.0	20.0		mg/L @ pH 4.51	1	11/12/15 10:28 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1030	50.0	50.0		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-5
Project:	Targa Eunice	**Lab ID:**	1511112-05
Project No:	2-0103	**Collection Date:**	11/10/15 11:46 AM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 12:48 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 12:48 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 12:48 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 12:48 PM
Surr: a,a,a-Trifluorotoluene	100	0	87-113		%REC	1	11/12/15 12:48 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:02 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0117	0.00200	0.00500		mg/L	1	11/16/15 03:42 PM
Barium	0.188	0.00300	0.0100		mg/L	1	11/16/15 03:42 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 03:42 PM
Calcium	148	10.0	30.0		mg/L	100	11/16/15 01:04 PM
Chromium	0.00441	0.00200	0.00500	J	mg/L	1	11/16/15 03:42 PM
Lead	0.00455	0.000300	0.00100		mg/L	1	11/16/15 03:42 PM
Magnesium	49.6	10.0	30.0		mg/L	100	11/16/15 01:04 PM
Potassium	10.9	0.100	0.300		mg/L	1	11/16/15 03:42 PM
Selenium	ND	0.00200	0.00500		mg/L	1	11/16/15 03:42 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:42 PM
Sodium	214	10.0	30.0		mg/L	100	11/16/15 01:04 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	212	3.00	10.0		mg/L	10	11/12/15 11:38 AM
Sulfate	141	10.0	30.0		mg/L	10	11/12/15 11:38 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	630	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 10:45 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 10:45 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 10:45 AM
Alkalinity, Total (As CaCO3)	630	20.0	20.0		mg/L @ pH 4.53	1	11/12/15 10:45 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1290	50.0	50.0		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-6
Project:	Targa Eunice	**Lab ID:**	1511112-06
Project No:	2-0103	**Collection Date:**	11/10/15 12:02 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.503	0.00800	0.0200		mg/L	10	11/12/15 01:11 PM
Ethylbenzene	0.169	0.0200	0.0600		mg/L	10	11/12/15 01:11 PM
Toluene	ND	0.0200	0.0600		mg/L	10	11/12/15 01:11 PM
Xylenes, Total	0.0375	0.0300	0.0900	J	mg/L	10	11/12/15 01:11 PM
Surr: a,a,a-Trifluorotoluene	99.7	0	87-113		%REC	10	11/12/15 01:11 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:05 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0518	0.00200	0.00500		mg/L	1	11/16/15 03:44 PM
Barium	1.47	0.00300	0.0100		mg/L	1	11/16/15 03:44 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 03:44 PM
Calcium	97.8	10.0	30.0		mg/L	100	11/16/15 01:06 PM
Chromium	0.0143	0.00200	0.00500		mg/L	1	11/16/15 03:44 PM
Lead	ND	0.000300	0.00100		mg/L	1	11/16/15 03:44 PM
Magnesium	81.4	10.0	30.0		mg/L	100	11/16/15 01:06 PM
Potassium	5.74	0.100	0.300		mg/L	1	11/16/15 03:44 PM
Selenium	ND	0.00200	0.00500		mg/L	1	11/16/15 03:44 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:44 PM
Sodium	493	10.0	30.0		mg/L	100	11/16/15 01:06 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	862	30.0	100		mg/L	100	11/12/15 03:02 PM
Sulfate	26.4	1.00	3.00		mg/L	1	11/12/15 11:52 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	459	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 10:58 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 10:58 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 10:58 AM
Alkalinity, Total (As CaCO3)	459	20.0	20.0		mg/L @ pH 4.52	1	11/12/15 10:58 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1950	50.0	50.0		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-16
Project:	Targa Eunice	**Lab ID:**	1511112-07
Project No:	2-0103	**Collection Date:**	11/10/15 12:20 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 01:34 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 01:34 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 01:34 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 01:34 PM
Surr: a,a,a-Trifluorotoluene	96.9	0	87-113		%REC	1	11/12/15 01:34 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:07 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00577	0.00200	0.00500		mg/L	1	11/16/15 03:46 PM
Barium	0.0842	0.00300	0.0100		mg/L	1	11/16/15 03:46 PM
Cadmium	0.00156	0.000300	0.00100		mg/L	1	11/16/15 03:46 PM
Calcium	117	10.0	30.0		mg/L	100	11/16/15 01:08 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/16/15 03:46 PM
Lead	0.000597	0.000300	0.00100	J	mg/L	1	11/16/15 03:46 PM
Magnesium	48.4	10.0	30.0		mg/L	100	11/16/15 01:08 PM
Potassium	7.06	0.100	0.300		mg/L	1	11/16/15 03:46 PM
Selenium	0.00701	0.00200	0.00500		mg/L	1	11/16/15 03:46 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:46 PM
Sodium	186	10.0	30.0		mg/L	100	11/16/15 01:08 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	223	3.00	10.0		mg/L	10	11/12/15 12:10 PM
Sulfate	250	10.0	30.0		mg/L	10	11/12/15 12:10 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	370	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 11:07 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 11:07 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/12/15 11:07 AM
Alkalinity, Total (As CaCO3)	370	20.0	20.0		mg/L @ pH 4.52	1	11/12/15 11:07 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1250	50.0	50.0		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-15
Project:	Targa Eunice	**Lab ID:**	1511112-08
Project No:	2-0103	**Collection Date:**	11/10/15 12:43 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 01:56 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 01:56 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 01:56 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 01:56 PM
Surr: a,a,a-Trifluorotoluene	95.7	0	87-113		%REC	1	11/12/15 01:56 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:09 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0117	0.00200	0.00500		mg/L	1	11/16/15 03:48 PM
Barium	0.0297	0.00300	0.0100		mg/L	1	11/16/15 03:48 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 03:48 PM
Calcium	79.4	10.0	30.0		mg/L	100	11/16/15 01:10 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/16/15 03:48 PM
Lead	0.00111	0.000300	0.00100		mg/L	1	11/16/15 03:48 PM
Magnesium	41.9	10.0	30.0		mg/L	100	11/16/15 01:10 PM
Potassium	9.61	0.100	0.300		mg/L	1	11/16/15 03:48 PM
Selenium	ND	0.00200	0.00500		mg/L	1	11/16/15 03:48 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:48 PM
Sodium	505	10.0	30.0		mg/L	100	11/16/15 01:10 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	396	3.00	10.0		mg/L	10	11/12/15 02:09 PM
Sulfate	278	10.0	30.0		mg/L	10	11/12/15 02:09 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	654	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 11:23 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 11:23 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 11:23 AM
Alkalinity, Total (As CaCO3)	654	20.0	20.0		mg/L @ pH 4.54	1	11/12/15 11:23 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1700	50.0	50.0		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-21
Project:	Targa Eunice	**Lab ID:**	1511112-09
Project No:	2-0103	**Collection Date:**	11/10/15 01:10 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 02:19 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 02:19 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 02:19 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 02:19 PM
Surr: a,a,a-Trifluorotoluene	96.0	0	87-113		%REC	1	11/12/15 02:19 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:21 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0151	0.00200	0.00500		mg/L	1	11/16/15 03:50 PM
Barium	0.128	0.00300	0.0100		mg/L	1	11/16/15 03:50 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 03:50 PM
Calcium	250	50.0	150		mg/L	500	11/16/15 01:12 PM
Chromium	0.00516	0.00200	0.00500		mg/L	1	11/16/15 03:50 PM
Lead	0.00127	0.000300	0.00100		mg/L	1	11/16/15 03:50 PM
Magnesium	143	50.0	150	J	mg/L	500	11/16/15 01:12 PM
Potassium	51.4	50.0	150	J	mg/L	500	11/16/15 01:12 PM
Selenium	0.0381	0.00200	0.00500		mg/L	1	11/16/15 03:50 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:50 PM
Sodium	3120	50.0	150		mg/L	500	11/16/15 01:12 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	4980	300	1000		mg/L	1000	11/12/15 03:17 PM
Sulfate	835	10.0	30.0		mg/L	10	11/12/15 12:24 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	556	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 11:38 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 11:38 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 11:38 AM
Alkalinity, Total (As CaCO3)	556	20.0	20.0		mg/L @ pH 4.53	1	11/12/15 11:38 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	10600	200	200		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-14
Project:	Targa Eunice	**Lab ID:**	1511112-10
Project No:	2-0103	**Collection Date:**	11/10/15 01:28 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.559	0.00400	0.0100		mg/L	5	11/12/15 02:41 PM
Ethylbenzene	ND	0.0100	0.0300		mg/L	5	11/12/15 02:41 PM
Toluene	ND	0.0100	0.0300		mg/L	5	11/12/15 02:41 PM
Xylenes, Total	ND	0.0150	0.0450		mg/L	5	11/12/15 02:41 PM
Surr: a,a,a-Trifluorotoluene	95.3	0	87-113		%REC	5	11/12/15 02:41 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:23 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0456	0.00200	0.00500		mg/L	1	11/16/15 03:52 PM
Barium	0.264	0.00300	0.0100		mg/L	1	11/16/15 03:52 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 03:52 PM
Calcium	446	10.0	30.0		mg/L	100	11/16/15 01:14 PM
Chromium	0.0109	0.00200	0.00500		mg/L	1	11/16/15 03:52 PM
Lead	0.00218	0.000300	0.00100		mg/L	1	11/16/15 03:52 PM
Magnesium	304	10.0	30.0		mg/L	100	11/16/15 01:14 PM
Potassium	116	10.0	30.0		mg/L	100	11/16/15 01:14 PM
Selenium	0.00259	0.00200	0.00500	J	mg/L	1	11/16/15 03:52 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:52 PM
Sodium	13800	100	300		mg/L	1000	11/16/15 03:16 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	24500	300	1000		mg/L	1000	11/12/15 03:53 PM
Sulfate	611	100	300		mg/L	100	11/12/15 03:37 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	718	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 12:12 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 12:12 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 12:12 PM
Alkalinity, Total (As CaCO3)	718	20.0	20.0		mg/L @ pH 4.54	1	11/12/15 12:12 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	42200	1000	1000		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-4
Project:	Targa Eunice	**Lab ID:**	1511112-11
Project No:	2-0103	**Collection Date:**	11/10/15 01:50 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 03:50 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 03:50 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 03:50 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 03:50 PM
Surr: a,a,a-Trifluorotoluene	94.1	0	87-113		%REC	1	11/12/15 03:50 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:25 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0150	0.00200	0.00500		mg/L	1	11/16/15 03:53 PM
Barium	0.0276	0.00300	0.0100		mg/L	1	11/16/15 03:53 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 03:53 PM
Calcium	222	10.0	30.0		mg/L	100	11/16/15 03:18 PM
Chromium	0.0165	0.00200	0.00500		mg/L	1	11/16/15 03:53 PM
Lead	0.00341	0.000300	0.00100		mg/L	1	11/16/15 03:53 PM
Magnesium	81.8	10.0	30.0		mg/L	100	11/16/15 03:18 PM
Potassium	11.3	0.100	0.300		mg/L	1	11/16/15 03:53 PM
Selenium	0.0423	0.00200	0.00500		mg/L	1	11/16/15 03:53 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 03:53 PM
Sodium	575	10.0	30.0		mg/L	100	11/16/15 03:18 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	416	3.00	10.0		mg/L	10	11/13/15 10:39 AM
Sulfate	1490	10.0	30.0		mg/L	10	11/13/15 10:39 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	563	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 12:27 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 12:27 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 12:27 PM
Alkalinity, Total (As CaCO3)	563	20.0	20.0		mg/L @ pH 4.53	1	11/12/15 12:27 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	3340	50.0	50.0		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-13
Project:	Targa Eunice	**Lab ID:**	1511112-12
Project No:	2-0103	**Collection Date:**	11/10/15 02:10 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 04:12 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 04:12 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 04:12 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 04:12 PM
Surr: a,a,a-Trifluorotoluene	94.1	0	87-113		%REC	1	11/12/15 04:12 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:27 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00859	0.00200	0.00500		mg/L	1	11/16/15 04:12 PM
Barium	0.0751	0.00300	0.0100		mg/L	1	11/16/15 04:12 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 04:12 PM
Calcium	1420	10.0	30.0		mg/L	100	11/16/15 03:20 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/16/15 04:12 PM
Lead	0.000503	0.000300	0.00100	J	mg/L	1	11/16/15 04:12 PM
Magnesium	556	10.0	30.0		mg/L	100	11/16/15 03:20 PM
Potassium	26.8	10.0	30.0	J	mg/L	100	11/16/15 03:20 PM
Selenium	0.0152	0.00200	0.00500		mg/L	1	11/16/15 04:12 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 04:12 PM
Sodium	1690	10.0	30.0		mg/L	100	11/16/15 03:20 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	6810	300	1000		mg/L	1000	11/13/15 11:48 AM
Sulfate	1350	100	300		mg/L	100	11/13/15 10:54 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	229	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 12:36 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 12:36 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 12:36 PM
Alkalinity, Total (As CaCO3)	229	20.0	20.0		mg/L @ pH 4.53	1	11/12/15 12:36 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	18300	200	200		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	HV-8
Project:	Targa Eunice	**Lab ID:**	1511112-13
Project No:	2-0103	**Collection Date:**	11/10/15 02:33 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/12/15 04:35 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 04:35 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 04:35 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 04:35 PM
Surr: a,a,a-Trifluorotoluene	95.6	0	87-113		%REC	1	11/12/15 04:35 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:30 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0230	0.00200	0.00500		mg/L	1	11/16/15 04:14 PM
Barium	0.124	0.00300	0.0100		mg/L	1	11/16/15 04:14 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 04:14 PM
Calcium	458	10.0	30.0		mg/L	100	11/16/15 03:22 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/16/15 04:14 PM
Lead	0.00114	0.000300	0.00100		mg/L	1	11/16/15 04:14 PM
Magnesium	219	10.0	30.0		mg/L	100	11/16/15 03:22 PM
Potassium	21.8	0.100	0.300		mg/L	1	11/16/15 04:14 PM
Selenium	ND	0.00200	0.00500		mg/L	1	11/16/15 04:14 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 04:14 PM
Sodium	1120	10.0	30.0		mg/L	100	11/16/15 03:22 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	2920	30.0	100		mg/L	100	11/13/15 11:08 AM
Sulfate	311	100	300		mg/L	100	11/13/15 11:08 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	510	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 12:50 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 12:50 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	11/12/15 12:50 PM
Alkalinity, Total (As CaCO3)	510	20.0	20.0		mg/L @ pH 4.54	1	11/12/15 12:50 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	6400	50.0	50.0		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *19-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	HV-3
Project:	Targa Eunice	**Lab ID:**	1511112-14
Project No:	2-0103	**Collection Date:**	11/10/15 02:47 PM
Lab Order:	1511112	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.00281	0.000800	0.00200		mg/L	1	11/12/15 04:58 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/12/15 04:58 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/12/15 04:58 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/12/15 04:58 PM
Surr: a,a,a-Trifluorotoluene	99.9	0	87-113		%REC	1	11/12/15 04:58 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 03:32 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0146	0.00200	0.00500		mg/L	1	11/16/15 04:16 PM
Barium	0.0598	0.00300	0.0100		mg/L	1	11/16/15 04:16 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/16/15 04:16 PM
Calcium	1010	10.0	30.0		mg/L	100	11/16/15 03:24 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/16/15 04:16 PM
Lead	0.000502	0.000300	0.00100	J	mg/L	1	11/16/15 04:16 PM
Magnesium	543	10.0	30.0		mg/L	100	11/16/15 03:24 PM
Potassium	46.2	10.0	30.0		mg/L	100	11/16/15 03:24 PM
Selenium	0.00364	0.00200	0.00500	J	mg/L	1	11/16/15 04:16 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/16/15 04:16 PM
Sodium	2300	10.0	30.0		mg/L	100	11/16/15 03:24 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **AV**
Chloride	7060	300	1000		mg/L	1000	11/13/15 12:02 PM
Sulfate	1090	100	300		mg/L	100	11/13/15 11:23 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	278	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 01:00 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 01:00 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/12/15 01:00 PM
Alkalinity, Total (As CaCO3)	278	20.0	20.0		mg/L @ pH 4.53	1	11/12/15 01:00 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	16800	200	200		mg/L	1	11/13/15 08:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_151112A

The QC data in batch 72285 applies to the following samples: 1511112-01A, 1511112-02A, 1511112-03A, 1511112-04A, 1511112-05A, 1511112-06A, 1511112-07A, 1511112-08A, 1511112-09A, 1511112-10A, 1511112-11A, 1511112-12A, 1511112-13A, 1511112-14A

Sample ID **LCS-72285** Batch ID: **72285** TestNo: **SW8021B** Units: **mg/L**
SampType: **LCS** Run ID: **GC8_151112A** Analysis Date: **11/12/2015 9:47:34 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0488	0.00200	0.0464	0	105	81	125			
Toluene	0.0480	0.00600	0.0464	0	103	84	123			
Ethylbenzene	0.0486	0.00600	0.0464	0	105	83	119			
Xylenes, Total	0.147	0.00900	0.139	0	106	81	117			
Surr: a,a,a-Trifluorotoluene	195		200.0		97.3	87	113			

Sample ID **MB-72285** Batch ID: **72285** TestNo: **SW8021B** Units: **mg/L**
SampType: **MBLK** Run ID: **GC8_151112A** Analysis Date: **11/12/2015 10:10:04 A** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00600								
Ethylbenzene	ND	0.00600								
Xylenes, Total	ND	0.00900								
Surr: a,a,a-Trifluorotoluene	195		200.0		97.4	87	113			

Sample ID **1511112-03AMS** Batch ID: **72285** TestNo: **SW8021B** Units: **mg/L**
SampType: **MS** Run ID: **GC8_151112A** Analysis Date: **11/12/2015 11:40:28 A** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0514	0.00200	0.0464	0	111	81	125			
Toluene	0.0500	0.00600	0.0464	0	108	84	123			
Ethylbenzene	0.0509	0.00600	0.0464	0	110	83	119			
Xylenes, Total	0.153	0.00900	0.139	0	110	81	117			
Surr: a,a,a-Trifluorotoluene	195		200.0		97.6	87	113			

Sample ID **1511112-03AMSD** Batch ID: **72285** TestNo: **SW8021B** Units: **mg/L**
SampType: **MSD** Run ID: **GC8_151112A** Analysis Date: **11/12/2015 12:03:12 P** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0506	0.00200	0.0464	0	109	81	125	1.45	20	
Toluene	0.0496	0.00600	0.0464	0	107	84	123	0.950	20	
Ethylbenzene	0.0503	0.00600	0.0464	0	108	83	119	1.16	20	
Xylenes, Total	0.151	0.00900	0.139	0	108	81	117	1.39	20	
Surr: a,a,a-Trifluorotoluene	196		200.0		98.2	87	113	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_151112A

Sample ID **ICV-151112**	Batch ID: **R82646**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **ICV**	Run ID: **GC8_151112A**	Analysis Date: **11/12/2015 9:24:53 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0962	0.00200	0.0928	0	104	80	120			
Toluene	0.0952	0.00600	0.0928	0	103	80	120			
Ethylbenzene	0.0968	0.00600	0.0928	0	104	80	120			
Xylenes, Total	0.288	0.00900	0.278	0	104	80	120			
Surr: a,a,a-Trifluorotoluene	194		200.0		97.2	87	113			

Sample ID **CCV1-151112**	Batch ID: **R82646**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_151112A**	Analysis Date: **11/12/2015 3:27:32 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0512	0.00200	0.0464	0	110	80	120			
Toluene	0.0500	0.00600	0.0464	0	108	80	120			
Ethylbenzene	0.0510	0.00600	0.0464	0	110	80	120			
Xylenes, Total	0.152	0.00900	0.139	0	109	80	120			
Surr: a,a,a-Trifluorotoluene	189		200.0		94.6	87	113			

Sample ID **CCV2-151112**	Batch ID: **R82646**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_151112A**	Analysis Date: **11/12/2015 5:43:43 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0488	0.00200	0.0464	0	105	80	120			
Toluene	0.0477	0.00600	0.0464	0	103	80	120			
Ethylbenzene	0.0487	0.00600	0.0464	0	105	80	120			
Xylenes, Total	0.145	0.00900	0.139	0	104	80	120			
Surr: a,a,a-Trifluorotoluene	189		200.0		94.4	87	113			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_151113C

The QC data in batch 72283 applies to the following samples: 1511112-01B, 1511112-02B, 1511112-03B, 1511112-04B, 1511112-05B, 1511112-06B, 1511112-07B, 1511112-08B, 1511112-09B, 1511112-10B, 1511112-11B, 1511112-12B, 1511112-13B, 1511112-14B

Sample ID **MB-72283** Batch ID: **72283** TestNo: **SW7470A** Units: **mg/L**
SampType: **MBLK** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 2:40:04 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID **LCS-72283** Batch ID: **72283** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCS** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 2:42:21 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00204	0.000200	0.00200	0	102	85	115			

Sample ID **LCSD-72283** Batch ID: **72283** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCSD** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 2:44:37 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00210	0.000200	0.00200	0	105	85	115	2.90	15	

Sample ID **1511112-08B SD** Batch ID: **72283** TestNo: **SW7470A** Units: **mg/L**
SampType: **SD** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 3:12:01 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.00100	0	0				0	10	

Sample ID **1511112-08B PDS** Batch ID: **72283** TestNo: **SW7470A** Units: **mg/L**
SampType: **PDS** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 3:14:18 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00241	0.000200	0.00250	0	96.4	85	115			

Sample ID **1511112-08B MS** Batch ID: **72283** TestNo: **SW7470A** Units: **mg/L**
SampType: **MS** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 3:16:35 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00190	0.000200	0.00200	0	95.0	80	120			

Sample ID **1511112-08B MSD** Batch ID: **72283** TestNo: **SW7470A** Units: **mg/L**
SampType: **MSD** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 3:18:53 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00208	0.000200	0.00200	0	104	80	120	9.05	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_151113C

Sample ID	**ICV-151113**	Batch ID:	**R82670**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_151113C**	Analysis Date:	**11/13/2015 1:38:46 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00386	0.000200	0.00400	0	96.5	90	110			

Sample ID	**CCV1-151113**	Batch ID:	**R82670**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_151113C**	Analysis Date:	**11/13/2015 2:24:09 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00197	0.000200	0.00200	0	98.5	90	110			

Sample ID	**CCV2-151113**	Batch ID:	**R82670**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_151113C**	Analysis Date:	**11/13/2015 2:58:18 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00195	0.000200	0.00200	0	97.5	90	110			

Sample ID	**CCV3-151113**	Batch ID:	**R82670**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_151113C**	Analysis Date:	**11/13/2015 3:34:48 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00196	0.000200	0.00200	0	98.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_151112C

The QC data in batch 72288 applies to the following samples: 1511112-01B, 1511112-02B, 1511112-03B, 1511112-04B , 1511112-05B, 1511112-06B, 1511112-07B, 1511112-08B, 1511112-09B, 1511112-10B, 1511112-11B, 1511112-12B, 1511112-13B, 1511112-14B

Sample ID **MB-72288** Batch ID: **72288** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS3_151112C** Analysis Date: **11/12/2015 3:01:00 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Calcium	ND	0.300								
Chromium	ND	0.00500								
Lead	ND	0.00100								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Selenium	ND	0.00500								
Silver	ND	0.00200								

Sample ID **LCS-72288** Batch ID: **72288** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS3_151112C** Analysis Date: **11/12/2015 3:07:00 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.180	0.00500	0.200	0	90.2	80	120			
Barium	0.175	0.0100	0.200	0	87.4	80	120			
Cadmium	0.172	0.00100	0.200	0	85.9	80	120			
Calcium	4.57	0.300	5.00	0	91.3	80	120			
Chromium	0.181	0.00500	0.200	0	90.3	80	120			
Lead	0.179	0.00100	0.200	0	89.4	80	120			
Magnesium	4.66	0.300	5.00	0	93.2	80	120			
Potassium	4.60	0.300	5.00	0	92.0	80	120			
Selenium	0.181	0.00500	0.200	0	90.4	80	120			
Silver	0.182	0.00200	0.200	0	91.1	80	120			

Sample ID **LCSD-72288** Batch ID: **72288** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS3_151112C** Analysis Date: **11/12/2015 3:13:00 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.182	0.00500	0.200	0	91.1	80	120	1.05	15	
Barium	0.176	0.0100	0.200	0	88.1	80	120	0.741	15	
Cadmium	0.173	0.00100	0.200	0	86.4	80	120	0.580	15	
Calcium	4.66	0.300	5.00	0	93.3	80	120	2.10	15	
Chromium	0.183	0.00500	0.200	0	91.6	80	120	1.37	15	
Lead	0.180	0.00100	0.200	0	90.2	80	120	0.835	15	
Magnesium	4.80	0.300	5.00	0	96.1	80	120	3.11	15	
Potassium	4.80	0.300	5.00	0	96.0	80	120	4.30	15	
Selenium	0.182	0.00500	0.200	0	91.2	80	120	0.771	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_151112C

Sample ID **LCSD-72288**	Batch ID: **72288**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCSD**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 3:13:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.184	0.00200	0.200	0	92.0	80	120	0.929	15	

Sample ID **1511112-04B SD**	Batch ID: **72288**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **SD**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 3:31:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0113	0.0250	0	0.0115				1.88	10	
Barium	0.0417	0.0500	0	0.0434				3.96	10	
Cadmium	0	0.00500	0	0				0	10	
Chromium	0	0.0250	0	0				0	10	
Lead	0	0.00500	0	0.00131				0	10	
Potassium	6.44	1.50	0	6.57				1.98	10	
Selenium	0	0.0250	0	0.00822				0	10	
Silver	0	0.0100	0	0				0	10	

Sample ID **1511112-04B PDS**	Batch ID: **72288**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **PDS**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 4:02:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0.0115	94.0	80	120			
Barium	0.231	0.0100	0.200	0.0434	93.7	80	120			
Cadmium	0.181	0.00100	0.200	0	90.6	80	120			
Chromium	0.192	0.00500	0.200	0	96.2	80	120			
Lead	0.194	0.00100	0.200	0.00131	96.1	80	120			
Potassium	11.0	0.300	5.00	6.57	88.4	80	120			
Selenium	0.195	0.00500	0.200	0.00822	93.5	80	120			
Silver	0.176	0.00200	0.200	0	88.0	80	120			

Sample ID **1511112-04B MS**	Batch ID: **72288**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MS**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 4:08:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.196	0.00500	0.200	0.0115	92.1	80	120			
Barium	0.225	0.0100	0.200	0.0434	90.8	80	120			
Cadmium	0.175	0.00100	0.200	0	87.6	80	120			
Calcium	176	0.300	5.00	168	162	80	120			S
Chromium	0.183	0.00500	0.200	0	91.4	80	120			
Lead	0.184	0.00100	0.200	0.00131	91.5	80	120			
Magnesium	36.6	0.300	5.00	31.6	99.0	80	120			
Potassium	11.3	0.300	5.00	6.57	95.4	80	120			
Selenium	0.187	0.00500	0.200	0.00822	89.5	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_151112C

Sample ID **1511112-04B MS**	Batch ID: **72288**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MS**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 4:08:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.175	0.00200	0.200	0	87.6	80	120			

Sample ID **1511112-04B MSD**	Batch ID: **72288**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 4:14:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.200	0.0115	94.9	80	120	2.82	15	
Barium	0.233	0.0100	0.200	0.0434	95.0	80	120	3.71	15	
Cadmium	0.179	0.00100	0.200	0	89.7	80	120	2.43	15	
Calcium	179	0.300	5.00	168	228	80	120	1.86	15	S
Chromium	0.187	0.00500	0.200	0	93.7	80	120	2.54	15	
Lead	0.188	0.00100	0.200	0.00131	93.5	80	120	2.20	15	
Magnesium	37.9	0.300	5.00	31.6	125	80	120	3.52	15	S
Potassium	11.7	0.300	5.00	6.57	102	80	120	3.04	15	
Selenium	0.192	0.00500	0.200	0.00822	91.7	80	120	2.32	15	
Silver	0.180	0.00200	0.200	0	89.8	80	120	2.48	15	

Sample ID **1511112-04B SD**	Batch ID: **72288**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **SD**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 4:32:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	181	75.0	0	171				5.69	10	
Magnesium	35.0	75.0	0	32.2				8.18	10	

Sample ID **1511112-04B PDS**	Batch ID: **72288**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **PDS**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 4:44:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	411	15.0	250	171	95.8	80	120			
Magnesium	284	15.0	250	32.2	101	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_151112C

Sample ID **ICV1-151112**	Batch ID: **R82645**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 11:53:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0982	0.00500	0.100	0	98.2	90	110			
Barium	0.0958	0.0100	0.100	0	95.8	90	110			
Cadmium	0.0935	0.00100	0.100	0	93.5	90	110			
Calcium	2.25	0.300	2.50	0	90.1	90	110			
Chromium	0.104	0.00500	0.100	0	104	90	110			
Lead	0.0988	0.00100	0.100	0	98.8	90	110			
Magnesium	2.48	0.300	2.50	0	99.0	90	110			
Potassium	2.33	0.300	2.50	0	93.4	90	110			
Selenium	0.0947	0.00500	0.100	0	94.7	90	110			
Silver	0.0966	0.00200	0.100	0	96.6	90	110			

Sample ID **ILCVL-151112**	Batch ID: **R82645**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 12:05:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00483	0.00500	0.00500	0	96.6	70	130			
Barium	0.00486	0.0100	0.00500	0	97.3	70	130			
Cadmium	0.00120	0.00100	0.00100	0	120	70	130			
Calcium	0.123	0.300	0.100	0	123	70	130			
Chromium	0.00502	0.00500	0.00500	0	100	70	130			
Lead	0.00121	0.00100	0.00100	0	121	70	130			
Magnesium	0.110	0.300	0.100	0	110	70	130			
Potassium	0.113	0.300	0.100	0	113	70	130			
Selenium	0.00504	0.00500	0.00500	0	101	70	130			
Silver	0.00196	0.00200	0.00200	0	98.0	70	130			

Sample ID **CCV1-151112**	Batch ID: **R82645**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS3_151112C**	Analysis Date: **11/12/2015 2:38:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.203	0.00500	0.200	0	102	90	110			
Barium	0.197	0.0100	0.200	0	98.6	90	110			
Cadmium	0.196	0.00100	0.200	0	97.8	90	110			
Calcium	5.23	0.300	5.00	0	105	90	110			
Chromium	0.200	0.00500	0.200	0	100	90	110			
Lead	0.207	0.00100	0.200	0	103	90	110			
Magnesium	5.29	0.300	5.00	0	106	90	110			
Potassium	5.24	0.300	5.00	0	105	90	110			
Selenium	0.203	0.00500	0.200	0	102	90	110			
Silver	0.207	0.00200	0.200	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_151112C

Sample ID **LCVL1-151112** Batch ID: **R82645** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS3_151112C** Analysis Date: **11/12/2015 2:55:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00470	0.00500	0.00500	0	94.0	70	130			
Barium	0.00458	0.0100	0.00500	0	91.5	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Calcium	0.0879	0.300	0.100	0	87.9	70	130			
Chromium	0.00483	0.00500	0.00500	0	96.5	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			
Magnesium	0.0929	0.300	0.100	0	92.9	70	130			
Potassium	0.0980	0.300	0.100	0	98.0	70	130			
Selenium	0.00490	0.00500	0.00500	0	98.0	70	130			
Silver	0.00198	0.00200	0.00200	0	98.8	70	130			

Sample ID **CCV2-151112** Batch ID: **R82645** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS3_151112C** Analysis Date: **11/12/2015 4:56:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.196	0.00500	0.200	0	97.9	90	110			
Barium	0.194	0.0100	0.200	0	96.8	90	110			
Cadmium	0.189	0.00100	0.200	0	94.4	90	110			
Calcium	5.22	0.300	5.00	0	104	90	110			
Chromium	0.201	0.00500	0.200	0	100	90	110			
Lead	0.200	0.00100	0.200	0	100	90	110			
Magnesium	5.33	0.300	5.00	0	107	90	110			
Potassium	5.23	0.300	5.00	0	105	90	110			
Selenium	0.192	0.00500	0.200	0	95.8	90	110			
Silver	0.201	0.00200	0.200	0	101	90	110			

Sample ID **LCVL2-151112** Batch ID: **R82645** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS3_151112C** Analysis Date: **11/12/2015 5:08:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00499	0.00500	0.00500	0	99.7	70	130			
Barium	0.00483	0.0100	0.00500	0	96.5	70	130			
Cadmium	0.000917	0.00100	0.00100	0	91.7	70	130			
Calcium	0.126	0.300	0.100	0	126	70	130			
Chromium	0.00513	0.00500	0.00500	0	103	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			
Magnesium	0.123	0.300	0.100	0	123	70	130			
Potassium	0.112	0.300	0.100	0	112	70	130			
Selenium	0.00544	0.00500	0.00500	0	109	70	130			
Silver	0.00218	0.00200	0.00200	0	109	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151116A

The QC data in batch 72288 applies to the following samples: 1511112-01B, 1511112-02B, 1511112-03B, 1511112-04B , 1511112-05B, 1511112-06B, 1511112-07B, 1511112-08B, 1511112-09B, 1511112-10B, 1511112-11B, 1511112-12B, 1511112-13B, 1511112-14B

Sample ID **1511112-04B SD** Batch ID: **72288** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_151116A** Analysis Date: **11/16/2015 12:56:00 P** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	216	75.0	0	219				1.42	10	

Sample ID **1511112-04B PDS** Batch ID: **72288** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS4_151116A** Analysis Date: **11/16/2015 1:16:00 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	224	15.0	250	219	1.99	80	120			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151116A

Sample ID **ICV-151116**	Batch ID: **R82682**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS4_151116A**	Analysis Date: **11/16/2015 12:03:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	2.31	0.300	2.50	0	92.4	90	110			
Magnesium	2.48	0.300	2.50	0	99.3	90	110			
Potassium	2.41	0.300	2.50	0	96.6	90	110			
Sodium	2.47	0.300	2.50	0	98.7	90	110			

Sample ID **LCVL-151116**	Batch ID: **R82682**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151116A**	Analysis Date: **11/16/2015 12:07:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0949	0.300	0.100	0	94.9	70	130			
Magnesium	0.102	0.300	0.100	0	102	70	130			
Potassium	0.105	0.300	0.100	0	105	70	130			
Sodium	0.108	0.300	0.100	0	108	70	130			

Sample ID **CCV1-151116**	Batch ID: **R82682**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151116A**	Analysis Date: **11/16/2015 12:42:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.53	0.300	5.00	0	90.7	90	110			
Magnesium	5.33	0.300	5.00	0	107	90	110			
Potassium	5.02	0.300	5.00	0	100	90	110			
Sodium	5.26	0.300	5.00	0	105	90	110			

Sample ID **LCVL1-151116**	Batch ID: **R82682**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151116A**	Analysis Date: **11/16/2015 12:50:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0896	0.300	0.100	0	89.6	70	130			
Magnesium	0.106	0.300	0.100	0	106	70	130			
Potassium	0.0847	0.300	0.100	0	84.7	70	130			
Sodium	0.0900	0.300	0.100	0	90.0	70	130			

Sample ID **CCV2-151116**	Batch ID: **R82682**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151116A**	Analysis Date: **11/16/2015 1:18:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.53	0.300	5.00	0	90.5	90	110			
Magnesium	5.32	0.300	5.00	0	106	90	110			
Potassium	5.05	0.300	5.00	0	101	90	110			
Sodium	5.38	0.300	5.00	0	108	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151116A

Sample ID **LCVL2-151116** Batch ID: **R82682** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_151116A** Analysis Date: **11/16/2015 1:24:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0864	0.300	0.100	0	86.4	70	130			
Magnesium	0.106	0.300	0.100	0	106	70	130			
Potassium	0.0841	0.300	0.100	0	84.1	70	130			
Sodium	0.0930	0.300	0.100	0	93.0	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151116B

Sample ID **ICV-151116**	Batch ID: **R82688**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS4_151116B**	Analysis Date: **11/16/2015 2:59:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.101	0.0100	0.100	0	101	90	110			
Cadmium	0.101	0.00100	0.100	0	101	90	110			
Calcium	2.31	0.300	2.50	0	92.4	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Lead	0.104	0.00100	0.100	0	104	90	110			
Magnesium	2.43	0.300	2.50	0	97.0	90	110			
Potassium	2.40	0.300	2.50	0	95.9	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.0998	0.00200	0.100	0	99.8	90	110			
Sodium	2.45	0.300	2.50	0	98.0	90	110			

Sample ID **LCVL-151116**	Batch ID: **R82688**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151116B**	Analysis Date: **11/16/2015 3:07:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00515	0.00500	0.00500	0	103	70	130			
Barium	0.00518	0.0100	0.00500	0	104	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Calcium	0.0910	0.300	0.100	0	91.0	70	130			
Chromium	0.00532	0.00500	0.00500	0	106	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			
Magnesium	0.102	0.300	0.100	0	102	70	130			
Potassium	0.104	0.300	0.100	0	104	70	130			
Selenium	0.00535	0.00500	0.00500	0	107	70	130			
Silver	0.00203	0.00200	0.00200	0	102	70	130			
Sodium	0.110	0.300	0.100	0	110	70	130			

Sample ID **CCV3-151116**	Batch ID: **R82688**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151116B**	Analysis Date: **11/16/2015 3:26:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0	102	90	110			
Barium	0.205	0.0100	0.200	0	102	90	110			
Cadmium	0.207	0.00100	0.200	0	103	90	110			
Calcium	4.59	0.300	5.00	0	91.8	90	110			
Chromium	0.206	0.00500	0.200	0	103	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Magnesium	5.00	0.300	5.00	0	100	90	110			
Potassium	5.06	0.300	5.00	0	101	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151116B

Sample ID **CCV3-151116**	Batch ID: **R82688**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151116B**	Analysis Date: **11/16/2015 3:26:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.204	0.00200	0.200	0	102	90	110			
Sodium	5.11	0.300	5.00	0	102	90	110			

Sample ID **LCVL3-151116**	Batch ID: **R82688**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151116B**	Analysis Date: **11/16/2015 3:32:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00518	0.00500	0.00500	0	104	70	130			
Barium	0.00514	0.0100	0.00500	0	103	70	130			
Cadmium	0.00105	0.00100	0.00100	0	105	70	130			
Calcium	0.0952	0.300	0.100	0	95.2	70	130			
Chromium	0.00529	0.00500	0.00500	0	106	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			
Magnesium	0.0994	0.300	0.100	0	99.4	70	130			
Potassium	0.103	0.300	0.100	0	103	70	130			
Selenium	0.00524	0.00500	0.00500	0	105	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			
Sodium	0.108	0.300	0.100	0	108	70	130			

Sample ID **CCV4-151116**	Batch ID: **R82688**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151116B**	Analysis Date: **11/16/2015 3:55:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.203	0.00500	0.200	0	102	90	110			
Barium	0.203	0.0100	0.200	0	102	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.195	0.00500	0.200	0	97.5	90	110			
Lead	0.205	0.00100	0.200	0	102	90	110			
Potassium	5.29	0.300	5.00	0	106	90	110			
Selenium	0.211	0.00500	0.200	0	105	90	110			
Silver	0.195	0.00200	0.200	0	97.4	90	110			

Sample ID **LCVL4-151116**	Batch ID: **R82688**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151116B**	Analysis Date: **11/16/2015 4:06:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00507	0.00500	0.00500	0	101	70	130			
Barium	0.00529	0.0100	0.00500	0	106	70	130			
Cadmium	0.00105	0.00100	0.00100	0	105	70	130			
Chromium	0.00513	0.00500	0.00500	0	103	70	130			
Lead	0.00105	0.00100	0.00100	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151116B

Sample ID	**LCVL4-151116**	Batch ID:	**R82688**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_151116B**	Analysis Date:	**11/16/2015 4:06:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	0.115	0.300	0.100	0	115	70	130			
Selenium	0.00536	0.00500	0.00500	0	107	70	130			
Silver	0.00201	0.00200	0.00200	0	101	70	130			

Sample ID	**CCV5-151116**	Batch ID:	**R82688**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_151116B**	Analysis Date:	**11/16/2015 4:22:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.202	0.00500	0.200	0	101	90	110			
Barium	0.206	0.0100	0.200	0	103	90	110			
Cadmium	0.208	0.00100	0.200	0	104	90	110			
Chromium	0.206	0.00500	0.200	0	103	90	110			
Lead	0.205	0.00100	0.200	0	102	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			
Selenium	0.201	0.00500	0.200	0	101	90	110			
Silver	0.204	0.00200	0.200	0	102	90	110			

Sample ID	**LCVL5-151116**	Batch ID:	**R82688**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_151116B**	Analysis Date:	**11/16/2015 4:28:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00512	0.00500	0.00500	0	102	70	130			
Barium	0.00507	0.0100	0.00500	0	101	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00514	0.00500	0.00500	0	103	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Potassium	0.113	0.300	0.100	0	113	70	130			
Selenium	0.00535	0.00500	0.00500	0	107	70	130			
Silver	0.00201	0.00200	0.00200	0	101	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151118A

The QC data in batch 72288 applies to the following samples: 1511112-01B, 1511112-02B, 1511112-03B, 1511112-04B , 1511112-05B, 1511112-06B, 1511112-07B, 1511112-08B, 1511112-09B, 1511112-10B, 1511112-11B, 1511112-12B, 1511112-13B, 1511112-14B

Sample ID	**MB-72288**	Batch ID:	**72288**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:27:00 PM**	Prep Date:	**11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	0.300								

Sample ID	**LCS-72288**	Batch ID:	**72288**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:29:00 PM**	Prep Date:	**11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	4.88	0.300	5.00	0	97.6	80	120			

Sample ID	**LCSD-72288**	Batch ID:	**72288**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:31:00 PM**	Prep Date:	**11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	5.02	0.300	5.00	0	100	80	120	2.82	15	

Sample ID	**1511112-04B MS**	Batch ID:	**72288**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:45:00 PM**	Prep Date:	**11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	225	15.0	5.00	219	116	80	120			

Sample ID	**1511112-04B MSD**	Batch ID:	**72288**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:47:00 PM**	Prep Date:	**11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	224	15.0	5.00	219	96.1	80	120	0.444	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151118A

Sample ID	**ICV-151118**	Batch ID:	**R82723**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 10:59:00 A**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	2.49	0.300	2.50	0	99.8	90	110			

Sample ID	**LCVL-151118**	Batch ID:	**R82723**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 11:04:00 A**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	0.107	0.300	0.100	0	107	70	130			

Sample ID	**CCV7-151118**	Batch ID:	**R82723**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:18:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	5.27	0.300	5.00	0	105	90	110			

Sample ID	**LCVL7-151118**	Batch ID:	**R82723**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:22:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	0.114	0.300	0.100	0	114	70	130			

Sample ID	**CCV8-151118**	Batch ID:	**R82723**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:49:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	5.30	0.300	5.00	0	106	90	110			

Sample ID	**LCVL8-151118**	Batch ID:	**R82723**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_151118A**	Analysis Date:	**11/18/2015 3:53:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	0.112	0.300	0.100	0	112	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_151112A

The QC data in batch 72287 applies to the following samples: 1511112-01C, 1511112-02C, 1511112-03C, 1511112-04C, 1511112-05C, 1511112-06C, 1511112-07C, 1511112-08C, 1511112-09C, 1511112-10C

Sample ID **MB-72287** Batch ID: **72287** TestNo: **E300** Units: **mg/L**
SampType: **MBLK** Run ID: **IC2_151112A** Analysis Date: **11/12/2015 9:30:02 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID **LCS-72287** Batch ID: **72287** TestNo: **E300** Units: **mg/L**
SampType: **LCS** Run ID: **IC2_151112A** Analysis Date: **11/12/2015 9:44:36 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.93	1.00	10.00	0	99.3	90	110			
Sulfate	30.0	3.00	30.00	0	100	90	110			

Sample ID **LCSD-72287** Batch ID: **72287** TestNo: **E300** Units: **mg/L**
SampType: **LCSD** Run ID: **IC2_151112A** Analysis Date: **11/12/2015 9:59:11 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.92	1.00	10.00	0	99.2	90	110	0.127	20	
Sulfate	29.6	3.00	30.00	0	98.7	90	110	1.46	20	

Sample ID **1511112-09CMS** Batch ID: **72287** TestNo: **E300** Units: **mg/L**
SampType: **MS** Run ID: **IC2_151112A** Analysis Date: **11/12/2015 4:33:32 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25400	1000	20000	4984	102	90	110			
Sulfate	21600	3000	20000	1028	103	90	110			

Sample ID **1511112-09CMSD** Batch ID: **72287** TestNo: **E300** Units: **mg/L**
SampType: **MSD** Run ID: **IC2_151112A** Analysis Date: **11/12/2015 4:48:08 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25500	1000	20000	4984	103	90	110	0.392	20	
Sulfate	21800	3000	20000	1028	104	90	110	1.14	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_151112A

Sample ID **ICV-151112**	Batch ID: **R82655**	TestNo: **E300**	Units: **mg/L**
SampType: **ICV**	Run ID: **IC2_151112A**	Analysis Date: **11/12/2015 8:45:27 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.5	1.00	25.00	0	98.0	90	110			
Sulfate	75.5	3.00	75.00	0	101	90	110			

Sample ID **CCV1-151112**	Batch ID: **R82655**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_151112A**	Analysis Date: **11/12/2015 1:23:58 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Sulfate	30.2	3.00	30.00	0	101	90	110			

Sample ID **CCV2-151112**	Batch ID: **R82655**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_151112A**	Analysis Date: **11/12/2015 5:02:44 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.97	1.00	10.00	0	99.7	90	110			
Sulfate	29.7	3.00	30.00	0	99.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_151113A

The QC data in batch 72310 applies to the following samples: 1511112-11C, 1511112-12C, 1511112-13C, 1511112-14C

Sample ID	**MB-72310**	Batch ID:	**72310**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**IC2_151113A**	Analysis Date:	**11/13/2015 9:45:03 AM**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID	**LCS-72310**	Batch ID:	**72310**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**IC2_151113A**	Analysis Date:	**11/13/2015 9:59:39 AM**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.96	1.00	10.00	0	99.6	90	110			
Sulfate	30.0	3.00	30.00	0	99.9	90	110			

Sample ID	**LCSD-72310**	Batch ID:	**72310**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**IC2_151113A**	Analysis Date:	**11/13/2015 10:14:15 A**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.93	1.00	10.00	0	99.3	90	110	0.316	20	
Sulfate	30.1	3.00	30.00	0	100	90	110	0.526	20	

Sample ID	**1511112-14CMS**	Batch ID:	**72310**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**IC2_151113A**	Analysis Date:	**11/13/2015 1:55:44 PM**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	27200	1000	20000	7064	101	90	110			
Sulfate	22600	3000	20000	1190	107	90	110			

Sample ID	**1511112-14CMSD**	Batch ID:	**72310**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**IC2_151113A**	Analysis Date:	**11/13/2015 2:10:21 PM**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	27300	1000	20000	7064	101	90	110	0.151	20	
Sulfate	21700	3000	20000	1190	103	90	110	3.85	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_151113A

Sample ID **ICV-151113**	Batch ID: **R82667**	TestNo: **E300**	Units: **mg/L**
SampType: **ICV**	Run ID: **IC2_151113A**	Analysis Date: **11/13/2015 9:06:50 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.5	1.00	25.00	0	97.8	90	110			
Sulfate	75.7	3.00	75.00	0	101	90	110			

Sample ID **CCV1-151113**	Batch ID: **R82667**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC2_151113A**	Analysis Date: **11/13/2015 2:24:57 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.93	1.00	10.00	0	99.3	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_151112B

The QC data in batch 72286 applies to the following samples: 1511112-01C, 1511112-02C, 1511112-03C, 1511112-04C, 1511112-05C, 1511112-06C, 1511112-07C, 1511112-08C, 1511112-09C, 1511112-10C, 1511112-11C, 1511112-12C, 1511112-13C, 1511112-14C

Sample ID **MB-72286** Batch ID: **72286** TestNo: **M2320 B** Units: **mg/L @ pH 4.5**
SampType: **MBLK** Run ID: **TITRATOR_151112B** Analysis Date: **11/12/2015 9:22:00 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID **1511112-03C DUP** Batch ID: **72286** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
SampType: **DUP** Run ID: **TITRATOR_151112B** Analysis Date: **11/12/2015 10:20:00 A** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	371	20.0	0	372.4				0.395	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	371	20.0	0	372.4				0.395	20	

Sample ID **LCS-72286** Batch ID: **72286** TestNo: **M2320 B** Units: **mg/L @ pH 4.5**
SampType: **LCS** Run ID: **TITRATOR_151112B** Analysis Date: **11/12/2015 11:49:00 A** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	53.4	20.0	50.00	0	107	74	129			

Sample ID **1511112-14C DUP** Batch ID: **72286** TestNo: **M2320 B** Units: **mg/L @ pH 4.53**
SampType: **DUP** Run ID: **TITRATOR_151112B** Analysis Date: **11/12/2015 1:10:00 PM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	278	20.0	0	277.9				0.048	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	278	20.0	0	277.9				0.048	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_151112B

Sample ID **ICV-151112**	Batch ID: **R82651**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.51**
SampType: **ICV**	Run ID: **TITRATOR_151112B**	Analysis Date: **11/12/2015 9:20:00 AM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	3.12	20.0	0							
Alkalinity, Carbonate (As CaCO3)	96.5	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.6	20.0	100.0	0	99.6	98	102			

Sample ID **CCV1-151112**	Batch ID: **R82651**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.51**
SampType: **CCV**	Run ID: **TITRATOR_151112B**	Analysis Date: **11/12/2015 11:44:00 A**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	19.9	20.0	0							
Alkalinity, Carbonate (As CaCO3)	79.2	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.1	20.0	100.0	0	99.1	90	110			

Sample ID **CCV2-151112**	Batch ID: **R82651**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.51**
SampType: **CCV**	Run ID: **TITRATOR_151112B**	Analysis Date: **11/12/2015 1:50:00 PM**	Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	3.60	20.0	0							
Alkalinity, Carbonate (As CaCO3)	95.7	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.3	20.0	100.0	0	99.3	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511112
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: WC_151112D

The QC data in batch 72305 applies to the following samples: 1511112-01C, 1511112-02C, 1511112-03C, 1511112-04C, 1511112-05C, 1511112-06C, 1511112-07C, 1511112-08C, 1511112-09C, 1511112-10C, 1511112-11C, 1511112-12C, 1511112-13C, 1511112-14C

Sample ID **MB-72305** Batch ID: **72305** TestNo: **M2540C** Units: **mg/L**
SampType: **MBLK** Run ID: **WC_151112D** Analysis Date: **11/13/2015 8:05:00 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10.0								

Sample ID **LCS-72305** Batch ID: **72305** TestNo: **M2540C** Units: **mg/L**
SampType: **LCS** Run ID: **WC_151112D** Analysis Date: **11/13/2015 8:05:00 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	740	10.0	745.6	0	99.2	90	113			

Sample ID **1511043-03C-DUP** Batch ID: **72305** TestNo: **M2540C** Units: **mg/L**
SampType: **DUP** Run ID: **WC_151112D** Analysis Date: **11/13/2015 8:05:00 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	582	10.0	0	596.0				2.38	5	

Sample ID **1511112-14C-DUP** Batch ID: **72305** TestNo: **M2540C** Units: **mg/L**
SampType: **DUP** Run ID: **WC_151112D** Analysis Date: **11/13/2015 8:05:00 AM** Prep Date: **11/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	16600	200	0	16780				0.838	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

November 20, 2015

Mark Larson
Larson & Associates
507 N. Marienfeld #205
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456

Order No.: 1511130

RE: Targa Eunice

Dear Mark Larson:

DHL Analytical, Inc. received 11 sample(s) on 11/12/2015 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-15-15

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 68973

CHAIN-OF-CUSTODY

CLIENT: Larson and Associates
ADDRESS: 507 Marienfeld Ste 205 Midland, TX 79701
PHONE: (432) - 687 - 0901 FAX/E-MAIL:
DATA REPORTED TO: Mark Larson
ADDITIONAL REPORT COPIES TO: Kimberly Huckaba

DATE: 11-11-15 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 157130
PROJECT LOCATION OR NAME: Targa Eunice
CLENT PROJECT #: 2-0103 COLLECTOR: Sarah Shissler

Authorize 5% surcharge for TRRP Report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID
SE=SEDIMENT

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ [METHOD 8021] ☐ | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO [METHOD 8015] ☐ DRO [METHOD 8105] ☐ | VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ T PHOS, AMMONIA ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ | RCRA ☒ TX11 ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☒ COD ☐ | CHLORIDE ☒ ANIONS ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ FLASHPOINT ☐ DGAS ☐ | TDS ☒ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | Ca + Mg + K + Na + Sulfate

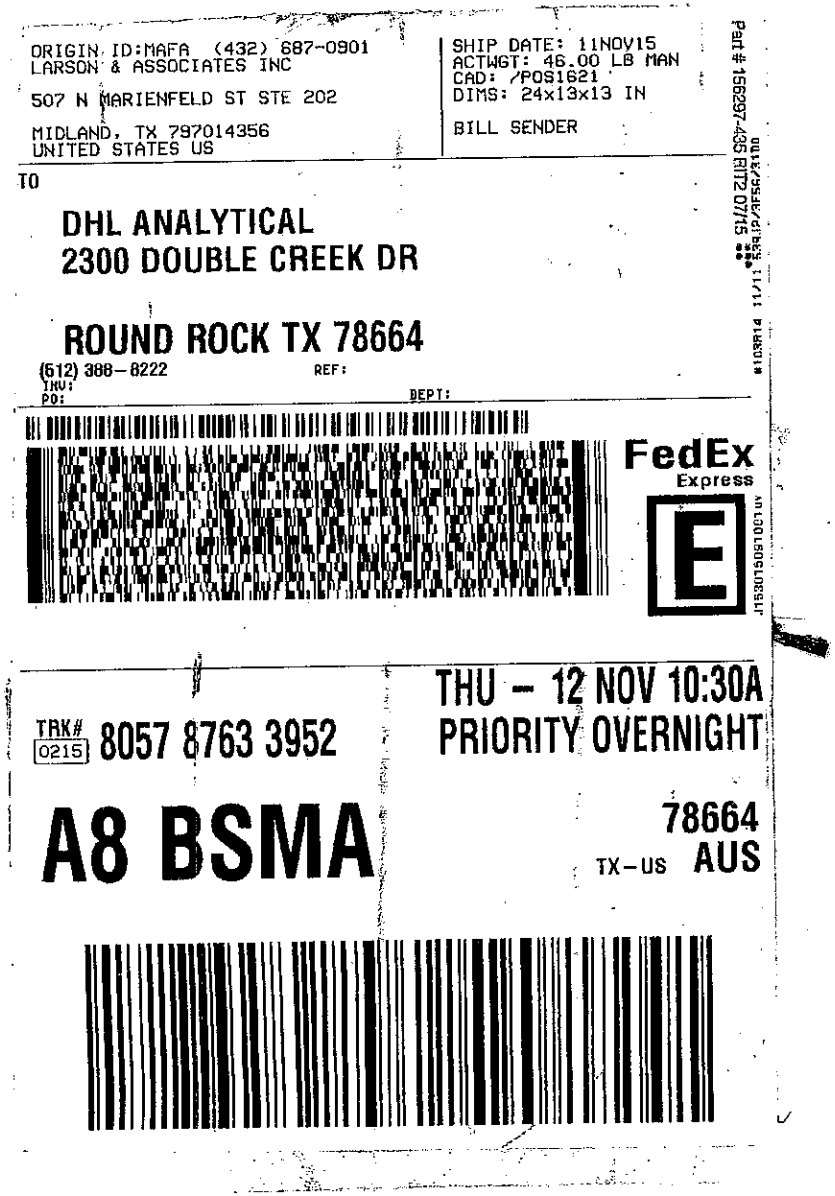
Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
MW-30	01	11-11-15	917	W	Poly/VOA	5	X	X		X		X	
MW-18	02		936										
MW-8	03		1014										
MW-9	04		1030										
MW-10	05		1045										
MW-11	06		1105										
MW-12	07		1132										
MW-23	08		1206										
MW-28	09		1229										
MW-24	10		1240										
MW-25	11		1255										

RELINQUISHED BY: (Signature) Kimberly Huckaba DATE/TIME 11-11-15 RECEIVED BY: (Signature) Fedex
RELINQUISHED BY: (Signature) Fedex DATE/TIME 11/12/15 940 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 1.2, 1.4 THERM #: 78
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☒ NOT USED
CARRIER: ☐ LONE STAR ☒ FEDEX ☐ UPS ☐ OTHER
☐ COURIER DELIVERY
☐ HAND DELIVERED



ORIGIN ID:MAFA (432) 687-0901
LARSON & ASSOCIATES INC
507 N MARIENFELD ST STE 202
MIDLAND, TX 797014356
UNITED STATES US

SHIP DATE: 11NOV15
ACTWGT: 46.00 LB MAN
CAD: /POS1621
DIMS: 24x13x13 IN
BILL SENDER

TO
DHL ANALYTICAL
2300 DOUBLE CREEK DR
ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

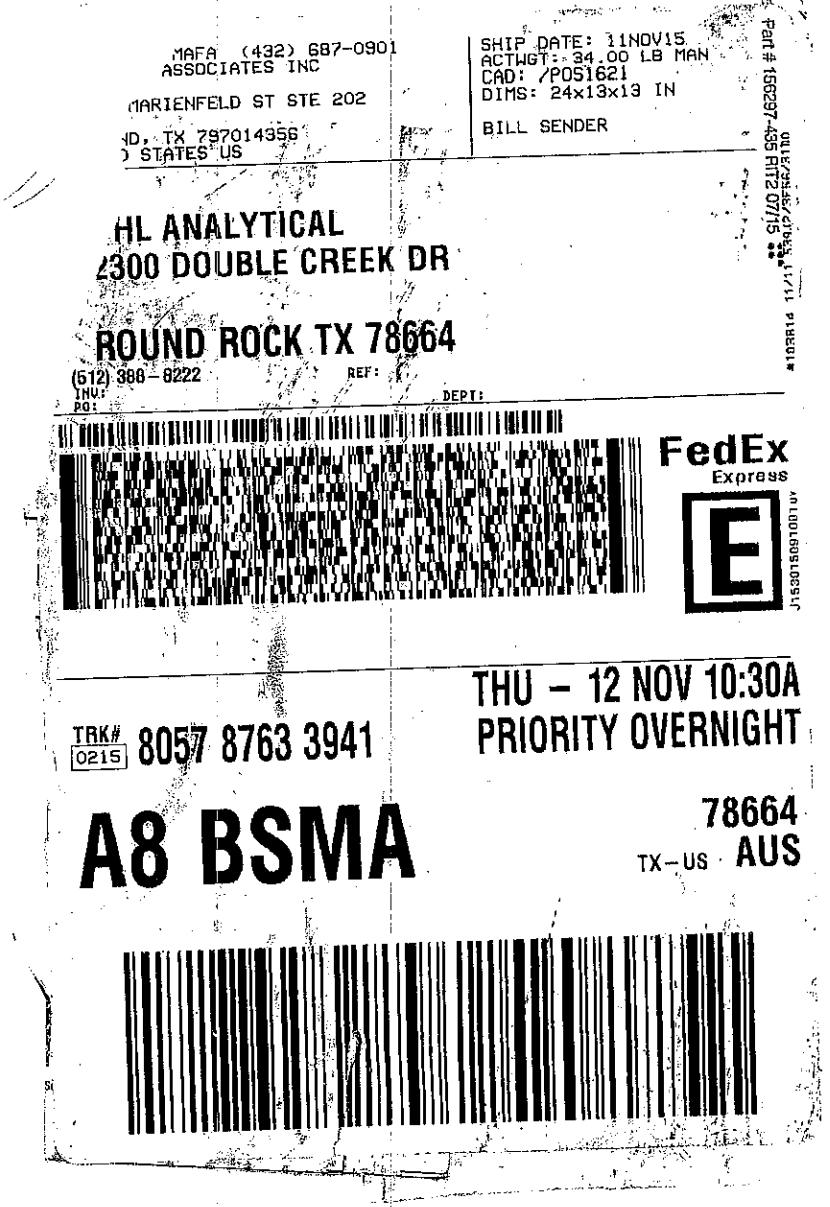
FedEx Express

TRK# 0215 8057 8763 3952

THU - 12 NOV 10:30A
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US AUS



MAFA (432) 687-0901
ASSOCIATES INC
MARIENFELD ST STE 202
ND, TX 797014356
STATES US

SHIP DATE: 11NOV15
ACTWGT: 34.00 LB MAN
CAD: /POS1621
DIMS: 24x13x13 IN
BILL SENDER

HL ANALYTICAL
2300 DOUBLE CREEK DR
ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx Express

TRK# 0215 8057 8763 3941

THU - 12 NOV 10:30A
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US AUS

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name **Larson & Associates** Date Received: **11/12/2015**

Work Order Number **1511130** Received by **MB**

Checklist completed by: _____ 11/12/2015 Reviewed by: DL 11/12/2015
Signature | Date | Initials | Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.2 °C 1.4
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 8086
	Adjusted? NO		Checked by QD
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc. **Date:** *20-Nov-15*

CLIENT: Larson & Associates
Project: Targa Eunice
Lab Order: 1511130

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method SW8021B - Volatile Organics by GC Analysis
Method E300 - Anions Analysis
Method M2540C - Total Dissolved Solids Analysis
Method M2320 B - Alkalinity Analysis

LOG IN

The samples were received and log-in performed on 11/12/2015. A total of 11 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected in Mountain Time Zone.

METALS ANALYSIS

For Metals Analysis, the recovery of Sodium for the Matrix Spike and Matrix Spike Duplicate (1511130-03 MS/MSD) was outside of the method control limits. These are flagged accordingly in the QC summary Report. This analyte was within method control limit in the associated LCS. No further corrective action was taken.

ANIONS ANALYSIS

For Anions Analysis, the recovery Chloride for the Matrix Spike and Matrix Spike Duplicate(s) (1511132-09/1511130-03 MS/MSD) was below the method control limits. These are flagged accordingly in the QC summary Report. This anion was within method control limit in the associated LCS. No further corrective action was taken.

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT: Larson & Associates
Project: Targa Eunice
Lab Order: 1511130

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1511130-01	MW-30		11/11/15 09:17 AM	11/12/2015
1511130-02	MW-18		11/11/15 09:36 AM	11/12/2015
1511130-03	MW-8		11/11/15 10:14 AM	11/12/2015
1511130-04	MW-9		11/11/15 10:30 AM	11/12/2015
1511130-05	MW-10		11/11/15 10:45 AM	11/12/2015
1511130-06	MW-11		11/11/15 11:05 AM	11/12/2015
1511130-07	MW-12		11/11/15 11:32 AM	11/12/2015
1511130-08	MW-23		11/11/15 12:06 PM	11/12/2015
1511130-09	MW-28		11/11/15 12:29 PM	11/12/2015
1511130-10	MW-24		11/11/15 12:40 PM	11/12/2015
1511130-11	MW-25		11/11/15 12:55 PM	11/12/2015

Lab Order: 1511130
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1511130-01A	MW-30	11/11/15 09:17 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-01B	MW-30	11/11/15 09:17 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-30	11/11/15 09:17 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-30	11/11/15 09:17 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-30	11/11/15 09:17 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-01C	MW-30	11/11/15 09:17 AM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-30	11/11/15 09:17 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-30	11/11/15 09:17 AM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-02A	MW-18	11/11/15 09:36 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-02B	MW-18	11/11/15 09:36 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-18	11/11/15 09:36 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-18	11/11/15 09:36 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-18	11/11/15 09:36 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-02C	MW-18	11/11/15 09:36 AM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-18	11/11/15 09:36 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-18	11/11/15 09:36 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-18	11/11/15 09:36 AM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-03A	MW-8	11/11/15 10:14 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-03B	MW-8	11/11/15 10:14 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-8	11/11/15 10:14 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-8	11/11/15 10:14 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-03C	MW-8	11/11/15 10:14 AM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-8	11/11/15 10:14 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-8	11/11/15 10:14 AM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-04A	MW-9	11/11/15 10:30 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-04B	MW-9	11/11/15 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-9	11/11/15 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-9	11/11/15 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311

Lab Order: 1511130
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1511130-04B	MW-9	11/11/15 10:30 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-04C	MW-9	11/11/15 10:30 AM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-9	11/11/15 10:30 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-9	11/11/15 10:30 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-9	11/11/15 10:30 AM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-05A	MW-10	11/11/15 10:45 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-05B	MW-10	11/11/15 10:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-10	11/11/15 10:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-10	11/11/15 10:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-10	11/11/15 10:45 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-05C	MW-10	11/11/15 10:45 AM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-10	11/11/15 10:45 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-10	11/11/15 10:45 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-10	11/11/15 10:45 AM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-06A	MW-11	11/11/15 11:05 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-06B	MW-11	11/11/15 11:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-11	11/11/15 11:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-11	11/11/15 11:05 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-06C	MW-11	11/11/15 11:05 AM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-11	11/11/15 11:05 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-11	11/11/15 11:05 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-11	11/11/15 11:05 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-11	11/11/15 11:05 AM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-07A	MW-12	11/11/15 11:32 AM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-07B	MW-12	11/11/15 11:32 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-12	11/11/15 11:32 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-12	11/11/15 11:32 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-12	11/11/15 11:32 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308

Lab Order: 1511130
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1511130-07C	MW-12	11/11/15 11:32 AM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-12	11/11/15 11:32 AM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-12	11/11/15 11:32 AM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-08A	MW-23	11/11/15 12:06 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-08B	MW-23	11/11/15 12:06 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-23	11/11/15 12:06 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-23	11/11/15 12:06 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-08C	MW-23	11/11/15 12:06 PM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-23	11/11/15 12:06 PM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-23	11/11/15 12:06 PM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-09A	MW-28	11/11/15 12:29 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-09B	MW-28	11/11/15 12:29 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-28	11/11/15 12:29 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-28	11/11/15 12:29 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-28	11/11/15 12:29 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-09C	MW-28	11/11/15 12:29 PM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-28	11/11/15 12:29 PM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-28	11/11/15 12:29 PM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-28	11/11/15 12:29 PM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-10A	MW-24	11/11/15 12:40 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-10B	MW-24	11/11/15 12:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-24	11/11/15 12:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-24	11/11/15 12:40 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-10C	MW-24	11/11/15 12:40 PM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-24	11/11/15 12:40 PM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-24	11/11/15 12:40 PM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321
1511130-11A	MW-25	11/11/15 12:55 PM	Aqueous	SW5030C	Purge and Trap Water GC	11/16/15 08:49 AM	72324
1511130-11B	MW-25	11/11/15 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311

Lab Order: 1511130
Client: Larson & Associates
Project: Targa Eunice

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1511130-11B	MW-25	11/11/15 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	11/13/15 09:03 AM	72311
	MW-25	11/11/15 12:55 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	11/13/15 08:01 AM	72308
1511130-11C	MW-25	11/11/15 12:55 PM	Aqueous	M2320 B	Alkalinity Preparation	11/13/15 09:20 AM	72315
	MW-25	11/11/15 12:55 PM	Aqueous	E300	Anion Preparation	11/16/15 09:15 AM	72326
	MW-25	11/11/15 12:55 PM	Aqueous	M2540C	TDS Preparation	11/13/15 03:03 PM	72321

Lab Order: 1511130
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511130-01A	MW-30	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 11:01 AM	GC8_151116A
1511130-01B	MW-30	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:01 PM	CETAC2_HG_151113C
	MW-30	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:18 PM	ICP-MS4_151117C
	MW-30	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	100	11/18/15 11:52 AM	ICP-MS4_151118A
	MW-30	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	50	11/18/15 11:54 AM	ICP-MS4_151118A
1511130-01C	MW-30	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 11:24 AM	TITRATOR_151113A
	MW-30	Aqueous	E300	Anions by IC method - Water	72326	100	11/16/15 12:06 PM	IC3_151116A
	MW-30	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-02A	MW-18	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 12:10 PM	GC8_151116A
1511130-02B	MW-18	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:12 PM	CETAC2_HG_151113C
	MW-18	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:20 PM	ICP-MS4_151117C
	MW-18	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	500	11/18/15 11:56 AM	ICP-MS4_151118A
	MW-18	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	100	11/18/15 11:58 AM	ICP-MS4_151118A
1511130-02C	MW-18	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 11:45 AM	TITRATOR_151113A
	MW-18	Aqueous	E300	Anions by IC method - Water	72326	1000	11/16/15 12:27 PM	IC3_151116A
	MW-18	Aqueous	E300	Anions by IC method - Water	72326	100	11/16/15 04:55 PM	IC3_151116A
	MW-18	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-03A	MW-8	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 12:32 PM	GC8_151116A
1511130-03B	MW-8	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:15 PM	CETAC2_HG_151113C
	MW-8	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:14 PM	ICP-MS4_151117C
	MW-8	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	50	11/18/15 11:48 AM	ICP-MS4_151118A
1511130-03C	MW-8	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 11:51 AM	TITRATOR_151113A
	MW-8	Aqueous	E300	Anions by IC method - Water	72326	100	11/16/15 12:47 PM	IC3_151116A
	MW-8	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-04A	MW-9	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 12:55 PM	GC8_151116A
1511130-04B	MW-9	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:17 PM	CETAC2_HG_151113C

Lab Order: 1511130
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511130-04B	MW-9	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:21 PM	ICP-MS4_151117C
	MW-9	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	10	11/18/15 12:00 PM	ICP-MS4_151118A
	MW-9	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	50	11/18/15 12:25 PM	ICP-MS4_151118A
1511130-04C	MW-9	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 11:57 AM	TITRATOR_151113A
	MW-9	Aqueous	E300	Anions by IC method - Water	72326	100	11/16/15 01:08 PM	IC3_151116A
	MW-9	Aqueous	E300	Anions by IC method - Water	72326	10	11/16/15 05:16 PM	IC3_151116A
	MW-9	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-05A	MW-10	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 01:17 PM	GC8_151116A
1511130-05B	MW-10	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:19 PM	CETAC2_HG_151113C
	MW-10	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:23 PM	ICP-MS4_151117C
	MW-10	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	10	11/18/15 12:02 PM	ICP-MS4_151118A
	MW-10	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	50	11/18/15 12:27 PM	ICP-MS4_151118A
1511130-05C	MW-10	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 12:03 PM	TITRATOR_151113A
	MW-10	Aqueous	E300	Anions by IC method - Water	72326	200	11/16/15 01:29 PM	IC3_151116A
	MW-10	Aqueous	E300	Anions by IC method - Water	72326	10	11/16/15 05:36 PM	IC3_151116A
	MW-10	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-06A	MW-11	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 05:32 PM	GC8_151116A
1511130-06B	MW-11	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:21 PM	CETAC2_HG_151113C
	MW-11	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:25 PM	ICP-MS4_151117C
	MW-11	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	50	11/18/15 12:03 PM	ICP-MS4_151118A
1511130-06C	MW-11	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 12:11 PM	TITRATOR_151113A
	MW-11	Aqueous	E300	Anions by IC method - Water	72326	100	11/16/15 01:49 PM	IC3_151116A
	MW-11	Aqueous	E300	Anions by IC method - Water	72326	5	11/16/15 05:57 PM	IC3_151116A
	MW-11	Aqueous	E300	Anions by IC method - Water	72326	1	11/17/15 11:09 AM	IC3_151116A
	MW-11	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-07A	MW-12	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 02:03 PM	GC8_151116A

Lab Order: 1511130
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511130-07B	MW-12	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:28 PM	CETAC2_HG_151113C
	MW-12	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	100	11/18/15 12:05 PM	ICP-MS4_151118A
	MW-12	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	500	11/18/15 12:29 PM	ICP-MS4_151118A
	MW-12	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:27 PM	ICP-MS4_151117C
1511130-07C	MW-12	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 12:18 PM	TITRATOR_151113A
	MW-12	Aqueous	E300	Anions by IC method - Water	72326	200	11/16/15 02:10 PM	IC3_151116A
	MW-12	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-08A	MW-23	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 02:30 PM	GC8_151116A
1511130-08B	MW-23	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:30 PM	CETAC2_HG_151113C
	MW-23	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:29 PM	ICP-MS4_151117C
	MW-23	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	100	11/18/15 12:07 PM	ICP-MS4_151118A
1511130-08C	MW-23	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 12:42 PM	TITRATOR_151113A
	MW-23	Aqueous	E300	Anions by IC method - Water	72326	100	11/16/15 06:18 PM	IC3_151116A
	MW-23	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-09A	MW-28	Aqueous	SW8021B	Volatile Organics by GC	72324	20	11/16/15 02:53 PM	GC8_151116A
1511130-09B	MW-28	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:33 PM	CETAC2_HG_151113C
	MW-28	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:31 PM	ICP-MS4_151117C
	MW-28	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	100	11/18/15 12:33 PM	ICP-MS4_151118A
	MW-28	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	500	11/18/15 01:45 PM	ICP-MS4_151118A
1511130-09C	MW-28	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 01:00 PM	TITRATOR_151113A
	MW-28	Aqueous	E300	Anions by IC method - Water	72326	5	11/16/15 02:51 PM	IC3_151116A
	MW-28	Aqueous	E300	Anions by IC method - Water	72326	50	11/16/15 06:38 PM	IC3_151116A
	MW-28	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-10A	MW-24	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 03:16 PM	GC8_151116A
1511130-10B	MW-24	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:35 PM	CETAC2_HG_151113C
	MW-24	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 01:33 PM	ICP-MS4_151117C

Lab Order: 1511130
Client: Larson & Associates
Project: Targa Eunice

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1511130-10B	MW-24	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	50	11/18/15 12:35 PM	ICP-MS4_151118A
1511130-10C	MW-24	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 01:23 PM	TITRATOR_151113A
	MW-24	Aqueous	E300	Anions by IC method - Water	72326	20	11/16/15 03:12 PM	IC3_151116A
	MW-24	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A
1511130-11A	MW-25	Aqueous	SW8021B	Volatile Organics by GC	72324	1	11/16/15 05:09 PM	GC8_151116A
1511130-11B	MW-25	Aqueous	SW7470A	Mercury Total: Aqueous	72308	1	11/13/15 02:37 PM	CETAC2_HG_151113C
	MW-25	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	1	11/17/15 11:37 AM	ICP-MS4_151117C
	MW-25	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	72311	50	11/18/15 12:37 PM	ICP-MS4_151118A
1511130-11C	MW-25	Aqueous	M2320 B	Alkalinity	72315	1	11/13/15 01:40 PM	TITRATOR_151113A
	MW-25	Aqueous	E300	Anions by IC method - Water	72326	5	11/16/15 06:59 PM	IC3_151116A
	MW-25	Aqueous	M2540C	Total Dissolved Solids	72321	1	11/16/15 07:55 AM	WC_151113A

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-30
Project:	Targa Eunice	**Lab ID:**	1511130-01
Project No:	2-0103	**Collection Date:**	11/11/15 09:17 AM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/16/15 11:01 AM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 11:01 AM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 11:01 AM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 11:01 AM
Surr: a,a,a-Trifluorotoluene	94.3	0	87-113		%REC	1	11/16/15 11:01 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:01 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0237	0.00200	0.00500		mg/L	1	11/17/15 01:18 PM
Barium	0.0451	0.00300	0.0100		mg/L	1	11/17/15 01:18 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 01:18 PM
Calcium	664	10.0	30.0		mg/L	100	11/18/15 11:52 AM
Chromium	0.0127	0.00200	0.00500		mg/L	1	11/17/15 01:18 PM
Lead	0.00268	0.000300	0.00100		mg/L	1	11/17/15 01:18 PM
Magnesium	327	10.0	30.0		mg/L	100	11/18/15 11:52 AM
Potassium	28.8	5.00	15.0		mg/L	50	11/18/15 11:54 AM
Selenium	0.0279	0.00200	0.00500		mg/L	1	11/17/15 01:18 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:18 PM
Sodium	2180	10.0	30.0		mg/L	100	11/18/15 11:52 AM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	4570	30.0	100		mg/L	100	11/16/15 12:06 PM
Sulfate	964	100	300		mg/L	100	11/16/15 12:06 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	191	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 11:24 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 11:24 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 11:24 AM
Alkalinity, Total (As CaCO3)	191	20.0	20.0		mg/L @ pH 4.51	1	11/13/15 11:24 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	12000	200	200		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-18
Project:	Targa Eunice	**Lab ID:**	1511130-02
Project No:	2-0103	**Collection Date:**	11/11/15 09:36 AM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.0277	0.000800	0.00200		mg/L	1	11/16/15 12:10 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 12:10 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 12:10 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 12:10 PM
Surr: a,a,a-Trifluorotoluene	94.3	0	87-113		%REC	1	11/16/15 12:10 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:12 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00909	0.00200	0.00500		mg/L	1	11/17/15 01:20 PM
Barium	0.175	0.00300	0.0100		mg/L	1	11/17/15 01:20 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 01:20 PM
Calcium	1620	50.0	150		mg/L	500	11/18/15 11:56 AM
Chromium	ND	0.00200	0.00500		mg/L	1	11/17/15 01:20 PM
Lead	0.00116	0.000300	0.00100		mg/L	1	11/17/15 01:20 PM
Magnesium	761	50.0	150		mg/L	500	11/18/15 11:56 AM
Potassium	35.5	10.0	30.0		mg/L	100	11/18/15 11:58 AM
Selenium	0.00248	0.00200	0.00500	J	mg/L	1	11/17/15 01:20 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:20 PM
Sodium	5000	50.0	150		mg/L	500	11/18/15 11:56 AM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	11600	300	1000		mg/L	1000	11/16/15 12:27 PM
Sulfate	583	100	300		mg/L	100	11/16/15 04:55 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	427	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 11:45 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 11:45 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 11:45 AM
Alkalinity, Total (As CaCO3)	427	20.0	20.0		mg/L @ pH 4.53	1	11/13/15 11:45 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	37100	1000	1000		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-8
Project:	Targa Eunice	**Lab ID:**	1511130-03
Project No:	2-0103	**Collection Date:**	11/11/15 10:14 AM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/16/15 12:32 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 12:32 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 12:32 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 12:32 PM
Surr: a,a,a-Trifluorotoluene	94.6	0	87-113		%REC	1	11/16/15 12:32 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:15 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0158	0.00200	0.00500		mg/L	1	11/17/15 01:14 PM
Barium	0.0528	0.00300	0.0100		mg/L	1	11/17/15 01:14 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 01:14 PM
Calcium	111	5.00	15.0		mg/L	50	11/18/15 11:48 AM
Chromium	ND	0.00200	0.00500		mg/L	1	11/17/15 01:14 PM
Lead	0.000450	0.000300	0.00100	J	mg/L	1	11/17/15 01:14 PM
Magnesium	47.1	5.00	15.0		mg/L	50	11/18/15 11:48 AM
Potassium	7.52	0.100	0.300		mg/L	1	11/17/15 01:14 PM
Selenium	0.0161	0.00200	0.00500		mg/L	1	11/17/15 01:14 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:14 PM
Sodium	344	5.00	15.0		mg/L	50	11/18/15 11:48 AM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	490	30.0	100		mg/L	100	11/16/15 12:47 PM
Sulfate	307	100	300		mg/L	100	11/16/15 12:47 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	206	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 11:51 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 11:51 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 11:51 AM
Alkalinity, Total (As CaCO3)	206	20.0	20.0		mg/L @ pH 4.52	1	11/13/15 11:51 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1680	50.0	50.0		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-9
Project:	Targa Eunice	**Lab ID:**	1511130-04
Project No:	2-0103	**Collection Date:**	11/11/15 10:30 AM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/16/15 12:55 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 12:55 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 12:55 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 12:55 PM
Surr: a,a,a-Trifluorotoluene	92.7	0	87-113		%REC	1	11/16/15 12:55 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:17 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00908	0.00200	0.00500		mg/L	1	11/17/15 01:21 PM
Barium	0.0768	0.00300	0.0100		mg/L	1	11/17/15 01:21 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 01:21 PM
Calcium	109	5.00	15.0		mg/L	50	11/18/15 12:25 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/17/15 01:21 PM
Lead	ND	0.000300	0.00100		mg/L	1	11/17/15 01:21 PM
Magnesium	43.2	1.00	3.00		mg/L	10	11/18/15 12:00 PM
Potassium	5.71	0.100	0.300		mg/L	1	11/17/15 01:21 PM
Selenium	ND	0.00200	0.00500		mg/L	1	11/17/15 01:21 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:21 PM
Sodium	111	1.00	3.00		mg/L	10	11/18/15 12:00 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	271	3.00	10.0		mg/L	10	11/16/15 05:16 PM
Sulfate	71.6	10.0	30.0		mg/L	10	11/16/15 05:16 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	228	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 11:57 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 11:57 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 11:57 AM
Alkalinity, Total (As CaCO3)	228	20.0	20.0		mg/L @ pH 4.52	1	11/13/15 11:57 AM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	993	10.0	10.0		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-10
Project:	Targa Eunice	**Lab ID:**	1511130-05
Project No:	2-0103	**Collection Date:**	11/11/15 10:45 AM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/16/15 01:17 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 01:17 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 01:17 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 01:17 PM
Surr: a,a,a-Trifluorotoluene	94.8	0	87-113		%REC	1	11/16/15 01:17 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:19 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00744	0.00200	0.00500		mg/L	1	11/17/15 01:23 PM
Barium	0.0974	0.00300	0.0100		mg/L	1	11/17/15 01:23 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 01:23 PM
Calcium	131	5.00	15.0		mg/L	50	11/18/15 12:27 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/17/15 01:23 PM
Lead	ND	0.000300	0.00100		mg/L	1	11/17/15 01:23 PM
Magnesium	35.6	1.00	3.00		mg/L	10	11/18/15 12:02 PM
Potassium	4.08	0.100	0.300		mg/L	1	11/17/15 01:23 PM
Selenium	0.00398	0.00200	0.00500	J	mg/L	1	11/17/15 01:23 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:23 PM
Sodium	49.8	1.00	3.00		mg/L	10	11/18/15 12:02 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	214	3.00	10.0		mg/L	10	11/16/15 05:36 PM
Sulfate	104	10.0	30.0		mg/L	10	11/16/15 05:36 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	185	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 12:03 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 12:03 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 12:03 PM
Alkalinity, Total (As CaCO3)	185	20.0	20.0		mg/L @ pH 4.51	1	11/13/15 12:03 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1030	10.0	10.0		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-11
Project:	Targa Eunice	**Lab ID:**	1511130-06
Project No:	2-0103	**Collection Date:**	11/11/15 11:05 AM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.0527	0.000800	0.00200		mg/L	1	11/16/15 05:32 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 05:32 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 05:32 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 05:32 PM
Surr: a,a,a-Trifluorotoluene	95.1	0	87-113		%REC	1	11/16/15 05:32 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:21 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0163	0.00200	0.00500		mg/L	1	11/17/15 01:25 PM
Barium	1.56	0.00300	0.0100		mg/L	1	11/17/15 01:25 PM
Cadmium	0.000605	0.000300	0.00100	J	mg/L	1	11/17/15 01:25 PM
Calcium	472	5.00	15.0		mg/L	50	11/18/15 12:03 PM
Chromium	0.0106	0.00200	0.00500		mg/L	1	11/17/15 01:25 PM
Lead	0.00602	0.000300	0.00100		mg/L	1	11/17/15 01:25 PM
Magnesium	47.5	5.00	15.0		mg/L	50	11/18/15 12:03 PM
Potassium	6.64	0.100	0.300		mg/L	1	11/17/15 01:25 PM
Selenium	0.00423	0.00200	0.00500	J	mg/L	1	11/17/15 01:25 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:25 PM
Sodium	92.7	5.00	15.0		mg/L	50	11/18/15 12:03 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	89.5	1.50	5.00		mg/L	5	11/16/15 05:57 PM
Sulfate	13.5	1.00	3.00		mg/L	1	11/17/15 11:09 AM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	324	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 12:11 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 12:11 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 12:11 PM
Alkalinity, Total (As CaCO3)	324	20.0	20.0		mg/L @ pH 4.52	1	11/13/15 12:11 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	601	10.0	10.0		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-12
Project:	Targa Eunice	**Lab ID:**	1511130-07
Project No:	2-0103	**Collection Date:**	11/11/15 11:32 AM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	ND	0.000800	0.00200		mg/L	1	11/16/15 02:03 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 02:03 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 02:03 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 02:03 PM
Surr: a,a,a-Trifluorotoluene	92.8	0	87-113		%REC	1	11/16/15 02:03 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:28 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0128	0.00200	0.00500		mg/L	1	11/17/15 01:27 PM
Barium	0.0715	0.00300	0.0100		mg/L	1	11/17/15 01:27 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 01:27 PM
Calcium	1010	50.0	150		mg/L	500	11/18/15 12:29 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/17/15 01:27 PM
Lead	0.00112	0.000300	0.00100		mg/L	1	11/17/15 01:27 PM
Magnesium	669	10.0	30.0		mg/L	100	11/18/15 12:05 PM
Potassium	20.5	0.100	0.300		mg/L	1	11/17/15 01:27 PM
Selenium	0.0452	0.00200	0.00500		mg/L	1	11/17/15 01:27 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:27 PM
Sodium	2140	10.0	30.0		mg/L	100	11/18/15 12:05 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	6190	60.0	200		mg/L	200	11/16/15 02:10 PM
Sulfate	1230	200	600		mg/L	200	11/16/15 02:10 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	192	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 12:18 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 12:18 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.51	1	11/13/15 12:18 PM
Alkalinity, Total (As CaCO3)	192	20.0	20.0		mg/L @ pH 4.51	1	11/13/15 12:18 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	17700	200	200		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-23
Project:	Targa Eunice	**Lab ID:**	1511130-08
Project No:	2-0103	**Collection Date:**	11/11/15 12:06 PM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.00303	0.000800	0.00200		mg/L	1	11/16/15 02:30 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 02:30 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 02:30 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 02:30 PM
Surr: a,a,a-Trifluorotoluene	95.0	0	87-113		%REC	1	11/16/15 02:30 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:30 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0361	0.00200	0.00500		mg/L	1	11/17/15 01:29 PM
Barium	0.0790	0.00300	0.0100		mg/L	1	11/17/15 01:29 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 01:29 PM
Calcium	488	10.0	30.0		mg/L	100	11/18/15 12:07 PM
Chromium	0.00388	0.00200	0.00500	J	mg/L	1	11/17/15 01:29 PM
Lead	0.000323	0.000300	0.00100	J	mg/L	1	11/17/15 01:29 PM
Magnesium	101	10.0	30.0		mg/L	100	11/18/15 12:07 PM
Potassium	14.6	0.100	0.300		mg/L	1	11/17/15 01:29 PM
Selenium	0.00515	0.00200	0.00500		mg/L	1	11/17/15 01:29 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:29 PM
Sodium	902	10.0	30.0		mg/L	100	11/18/15 12:07 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	555	30.0	100		mg/L	100	11/16/15 06:18 PM
Sulfate	868	100	300		mg/L	100	11/16/15 06:18 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	1000	10.0	20.0		mg/L @ pH 4.54	1	11/13/15 12:42 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	11/13/15 12:42 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.54	1	11/13/15 12:42 PM
Alkalinity, Total (As CaCO3)	1000	20.0	20.0		mg/L @ pH 4.54	1	11/13/15 12:42 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	3430	50.0	50.0		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-28
Project:	Targa Eunice	**Lab ID:**	1511130-09
Project No:	2-0103	**Collection Date:**	11/11/15 12:29 PM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.748	0.0160	0.0400		mg/L	20	11/16/15 02:53 PM
Ethylbenzene	0.534	0.0400	0.120		mg/L	20	11/16/15 02:53 PM
Toluene	ND	0.0400	0.120		mg/L	20	11/16/15 02:53 PM
Xylenes, Total	0.279	0.0600	0.180		mg/L	20	11/16/15 02:53 PM
Surr: a,a,a-Trifluorotoluene	93.3	0	87-113		%REC	20	11/16/15 02:53 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:33 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.101	0.00200	0.00500		mg/L	1	11/17/15 01:31 PM
Barium	6.39	0.300	1.00		mg/L	100	11/18/15 12:33 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 01:31 PM
Calcium	1010	50.0	150		mg/L	500	11/18/15 01:45 PM
Chromium	0.00748	0.00200	0.00500		mg/L	1	11/17/15 01:31 PM
Lead	0.00231	0.000300	0.00100		mg/L	1	11/17/15 01:31 PM
Magnesium	114	10.0	30.0		mg/L	100	11/18/15 12:33 PM
Potassium	7.70	0.100	0.300		mg/L	1	11/17/15 01:31 PM
Selenium	ND	0.00200	0.00500		mg/L	1	11/17/15 01:31 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:31 PM
Sodium	391	10.0	30.0		mg/L	100	11/18/15 12:33 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	506	15.0	50.0		mg/L	50	11/16/15 06:38 PM
Sulfate	23.5	5.00	15.0		mg/L	5	11/16/15 02:51 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	689	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 01:00 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 01:00 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 01:00 PM
Alkalinity, Total (As CaCO3)	689	20.0	20.0		mg/L @ pH 4.53	1	11/13/15 01:00 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1730	50.0	50.0		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-24
Project:	Targa Eunice	**Lab ID:**	1511130-10
Project No:	2-0103	**Collection Date:**	11/11/15 12:40 PM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.000807	0.000800	0.00200	J	mg/L	1	11/16/15 03:16 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 03:16 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 03:16 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 03:16 PM
Surr: a,a,a-Trifluorotoluene	92.7	0	87-113		%REC	1	11/16/15 03:16 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:35 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0427	0.00200	0.00500		mg/L	1	11/17/15 01:33 PM
Barium	0.0541	0.00300	0.0100		mg/L	1	11/17/15 01:33 PM
Cadmium	0.000307	0.000300	0.00100	J	mg/L	1	11/17/15 01:33 PM
Calcium	276	5.00	15.0		mg/L	50	11/18/15 12:35 PM
Chromium	0.00547	0.00200	0.00500		mg/L	1	11/17/15 01:33 PM
Lead	0.00217	0.000300	0.00100		mg/L	1	11/17/15 01:33 PM
Magnesium	161	5.00	15.0		mg/L	50	11/18/15 12:35 PM
Potassium	7.80	0.100	0.300		mg/L	1	11/17/15 01:33 PM
Selenium	ND	0.00200	0.00500		mg/L	1	11/17/15 01:33 PM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 01:33 PM
Sodium	335	5.00	15.0		mg/L	50	11/18/15 12:35 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	453	6.00	20.0		mg/L	20	11/16/15 03:12 PM
Sulfate	497	20.0	60.0		mg/L	20	11/16/15 03:12 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	610	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 01:23 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 01:23 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.52	1	11/13/15 01:23 PM
Alkalinity, Total (As CaCO3)	610	20.0	20.0		mg/L @ pH 4.52	1	11/13/15 01:23 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	2530	50.0	50.0		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *20-Nov-15*

CLIENT:	Larson & Associates	**Client Sample ID:**	MW-25
Project:	Targa Eunice	**Lab ID:**	1511130-11
Project No:	2-0103	**Collection Date:**	11/11/15 12:55 PM
Lab Order:	1511130	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		**SW8021B**					Analyst: **LM**
Benzene	0.0117	0.000800	0.00200		mg/L	1	11/16/15 05:09 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	11/16/15 05:09 PM
Toluene	ND	0.00200	0.00600		mg/L	1	11/16/15 05:09 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	11/16/15 05:09 PM
Surr: a,a,a-Trifluorotoluene	97.0	0	87-113		%REC	1	11/16/15 05:09 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **ABO**
Mercury	ND	0.0000800	0.000200		mg/L	1	11/13/15 02:37 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.0255	0.00200	0.00500		mg/L	1	11/17/15 11:37 AM
Barium	0.911	0.00300	0.0100		mg/L	1	11/17/15 11:37 AM
Cadmium	ND	0.000300	0.00100		mg/L	1	11/17/15 11:37 AM
Calcium	203	5.00	15.0		mg/L	50	11/18/15 12:37 PM
Chromium	ND	0.00200	0.00500		mg/L	1	11/17/15 11:37 AM
Lead	0.00185	0.000300	0.00100		mg/L	1	11/17/15 11:37 AM
Magnesium	70.6	5.00	15.0		mg/L	50	11/18/15 12:37 PM
Potassium	4.22	0.100	0.300		mg/L	1	11/17/15 11:37 AM
Selenium	ND	0.00200	0.00500		mg/L	1	11/17/15 11:37 AM
Silver	ND	0.00100	0.00200		mg/L	1	11/17/15 11:37 AM
Sodium	133	5.00	15.0		mg/L	50	11/18/15 12:37 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **SCS**
Chloride	98.1	1.50	5.00		mg/L	5	11/16/15 06:59 PM
Sulfate	32.4	5.00	15.0		mg/L	5	11/16/15 06:59 PM
ALKALINITY		**M2320 B**					Analyst: **LM**
Alkalinity, Bicarbonate (As CaCO3)	726	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 01:40 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 01:40 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L @ pH 4.53	1	11/13/15 01:40 PM
Alkalinity, Total (As CaCO3)	726	20.0	20.0		mg/L @ pH 4.53	1	11/13/15 01:40 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **BJT**
Total Dissolved Solids (Residue, Filterable)	1260	50.0	50.0		mg/L	1	11/16/15 07:55 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_151116A

The QC data in batch 72324 applies to the following samples: 1511130-01A, 1511130-02A, 1511130-03A, 1511130-04A, 1511130-05A, 1511130-06A, 1511130-07A, 1511130-08A, 1511130-09A, 1511130-10A, 1511130-11A

Sample ID **LCS-72324** Batch ID: **72324** TestNo: **SW8021B** Units: **mg/L**
SampType: **LCS** Run ID: **GC8_151116A** Analysis Date: **11/16/2015 10:16:23 A** Prep Date: **11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0484	0.00200	0.0464	0	104	81	125			
Toluene	0.0476	0.00600	0.0464	0	103	84	123			
Ethylbenzene	0.0482	0.00600	0.0464	0	104	83	119			
Xylenes, Total	0.144	0.00900	0.139	0	104	81	117			
Surr: a,a,a-Trifluorotoluene	185		200.0		92.3	87	113			

Sample ID **MB-72324** Batch ID: **72324** TestNo: **SW8021B** Units: **mg/L**
SampType: **MBLK** Run ID: **GC8_151116A** Analysis Date: **11/16/2015 10:39:02 A** Prep Date: **11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00600								
Ethylbenzene	ND	0.00600								
Xylenes, Total	ND	0.00900								
Surr: a,a,a-Trifluorotoluene	187		200.0		93.7	87	113			

Sample ID **1511130-01AMS** Batch ID: **72324** TestNo: **SW8021B** Units: **mg/L**
SampType: **MS** Run ID: **GC8_151116A** Analysis Date: **11/16/2015 11:24:36 A** Prep Date: **11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0515	0.00200	0.0464	0	111	81	125			
Toluene	0.0503	0.00600	0.0464	0	108	84	123			
Ethylbenzene	0.0511	0.00600	0.0464	0	110	83	119			
Xylenes, Total	0.152	0.00900	0.139	0	109	81	117			
Surr: a,a,a-Trifluorotoluene	194		200.0		96.9	87	113			

Sample ID **1511130-01AMSD** Batch ID: **72324** TestNo: **SW8021B** Units: **mg/L**
SampType: **MSD** Run ID: **GC8_151116A** Analysis Date: **11/16/2015 11:47:23 A** Prep Date: **11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0497	0.00200	0.0464	0	107	81	125	3.56	20	
Toluene	0.0487	0.00600	0.0464	0	105	84	123	3.29	20	
Ethylbenzene	0.0495	0.00600	0.0464	0	107	83	119	3.20	20	
Xylenes, Total	0.148	0.00900	0.139	0	106	81	117	2.87	20	
Surr: a,a,a-Trifluorotoluene	190		200.0		94.9	87	113	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_151116A

Sample ID **ICV-151116**	Batch ID: **R82696**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **ICV**	Run ID: **GC8_151116A**	Analysis Date: **11/16/2015 9:53:47 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0956	0.00200	0.0928	0	103	80	120			
Toluene	0.0948	0.00600	0.0928	0	102	80	120			
Ethylbenzene	0.0967	0.00600	0.0928	0	104	80	120			
Xylenes, Total	0.286	0.00900	0.278	0	103	80	120			
Surr: a,a,a-Trifluorotoluene	187		200.0		93.7	87	113			

Sample ID **CCV1-151116**	Batch ID: **R82696**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_151116A**	Analysis Date: **11/16/2015 4:01:45 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0489	0.00200	0.0464	0	105	80	120			
Toluene	0.0478	0.00600	0.0464	0	103	80	120			
Ethylbenzene	0.0485	0.00600	0.0464	0	105	80	120			
Xylenes, Total	0.145	0.00900	0.139	0	104	80	120			
Surr: a,a,a-Trifluorotoluene	185		200.0		92.7	87	113			

Sample ID **CCV2-151116**	Batch ID: **R82696**	TestNo: **SW8021B**	Units: **mg/L**
SampType: **CCV**	Run ID: **GC8_151116A**	Analysis Date: **11/16/2015 10:04:49 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0507	0.00200	0.0464	0	109	80	120			
Toluene	0.0494	0.00600	0.0464	0	106	80	120			
Ethylbenzene	0.0501	0.00600	0.0464	0	108	80	120			
Xylenes, Total	0.149	0.00900	0.139	0	107	80	120			
Surr: a,a,a-Trifluorotoluene	181		200.0		90.4	87	113			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_151113C

The QC data in batch 72308 applies to the following samples: 1511130-01B, 1511130-02B, 1511130-03B, 1511130-04B, 1511130-05B, 1511130-06B, 1511130-07B, 1511130-08B, 1511130-09B, 1511130-10B, 1511130-11B

Sample ID **MB-72308** Batch ID: **72308** TestNo: **SW7470A** Units: **mg/L**
SampType: **MBLK** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 1:43:20 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID **LCS-72308** Batch ID: **72308** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCS** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 1:47:52 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00227	0.000200	0.00200	0	114	85	115			

Sample ID **LCSD-72308** Batch ID: **72308** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCSD** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 1:50:08 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00224	0.000200	0.00200	0	112	85	115	1.33	15	

Sample ID **1511130-01B SD** Batch ID: **72308** TestNo: **SW7470A** Units: **mg/L**
SampType: **SD** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 2:03:44 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.00100	0	0				0	10	

Sample ID **1511130-01B PDS** Batch ID: **72308** TestNo: **SW7470A** Units: **mg/L**
SampType: **PDS** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 2:05:59 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00228	0.000200	0.00250	0	91.2	85	115			

Sample ID **1511130-01B MS** Batch ID: **72308** TestNo: **SW7470A** Units: **mg/L**
SampType: **MS** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 2:08:15 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00219	0.000200	0.00200	0	110	80	120			

Sample ID **1511130-01B MSD** Batch ID: **72308** TestNo: **SW7470A** Units: **mg/L**
SampType: **MSD** Run ID: **CETAC2_HG_151113C** Analysis Date: **11/13/2015 2:10:31 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00211	0.000200	0.00200	0	106	80	120	3.72	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_151113C

Sample ID	**ICV-151113**	Batch ID:	**R82670**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_151113C**	Analysis Date:	**11/13/2015 1:38:46 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00386	0.000200	0.00400	0	96.5	90	110			

Sample ID	**CCV1-151113**	Batch ID:	**R82670**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_151113C**	Analysis Date:	**11/13/2015 2:24:09 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00197	0.000200	0.00200	0	98.5	90	110			

Sample ID	**CCV2-151113**	Batch ID:	**R82670**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_151113C**	Analysis Date:	**11/13/2015 2:58:18 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00195	0.000200	0.00200	0	97.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_151117C**

The QC data in batch 72311 applies to the following samples: 1511130-01B, 1511130-02B, 1511130-03B, 1511130-04B, 1511130-05B, 1511130-06B, 1511130-07B, 1511130-08B, 1511130-09B, 1511130-10B, 1511130-11B

Sample ID **MB-72311** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_151117C** Analysis Date: **11/17/2015 1:06:00 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Calcium	ND	0.300								
Chromium	ND	0.00500								
Lead	ND	0.00100								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Selenium	ND	0.00500								
Silver	ND	0.00200								

Sample ID **LCS-72311** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS4_151117C** Analysis Date: **11/17/2015 1:08:00 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.192	0.00500	0.200	0	96.1	80	120			
Barium	0.187	0.0100	0.200	0	93.4	80	120			
Cadmium	0.186	0.00100	0.200	0	93.1	80	120			
Calcium	4.47	0.300	5.00	0	89.3	80	120			
Chromium	0.191	0.00500	0.200	0	95.4	80	120			
Lead	0.185	0.00100	0.200	0	92.7	80	120			
Magnesium	4.69	0.300	5.00	0	93.8	80	120			
Potassium	4.76	0.300	5.00	0	95.2	80	120			
Selenium	0.192	0.00500	0.200	0	95.9	80	120			
Silver	0.185	0.00200	0.200	0	92.4	80	120			

Sample ID **LCSD-72311** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_151117C** Analysis Date: **11/17/2015 1:10:00 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.195	0.00500	0.200	0	97.4	80	120	1.37	15	
Barium	0.192	0.0100	0.200	0	96.1	80	120	2.88	15	
Cadmium	0.192	0.00100	0.200	0	96.1	80	120	3.14	15	
Calcium	4.63	0.300	5.00	0	92.6	80	120	3.64	15	
Chromium	0.194	0.00500	0.200	0	97.2	80	120	1.96	15	
Lead	0.189	0.00100	0.200	0	94.5	80	120	1.84	15	
Magnesium	4.82	0.300	5.00	0	96.5	80	120	2.86	15	
Potassium	4.92	0.300	5.00	0	98.3	80	120	3.23	15	
Selenium	0.193	0.00500	0.200	0	96.7	80	120	0.834	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151117C

Sample ID	**LCSD-72311**	Batch ID:	**72311**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**ICP-MS4_151117C**	Analysis Date:	**11/17/2015 1:10:00 PM**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.191	0.00200	0.200	0	95.3	80	120	3.06	15	

Sample ID	**1511130-03B SD**	Batch ID:	**72311**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS4_151117C**	Analysis Date:	**11/17/2015 1:16:00 PM**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0160	0.0250	0	0.0158				0.993	10	
Barium	0.0537	0.0500	0	0.0528				1.83	10	
Cadmium	0	0.00500	0	0				0	10	
Chromium	0	0.0250	0	0				0	10	
Lead	0	0.00500	0	0.000450				0	10	
Potassium	7.31	1.50	0	7.52				2.85	10	
Selenium	0.0151	0.0250	0	0.0161				6.41	10	
Silver	0	0.0100	0	0				0	10	

Sample ID	**1511130-03B PDS**	Batch ID:	**72311**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS4_151117C**	Analysis Date:	**11/17/2015 1:35:00 PM**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.220	0.00500	0.200	0.0158	102	80	120			
Barium	0.254	0.0100	0.200	0.0528	100	80	120			
Cadmium	0.192	0.00100	0.200	0	96.2	80	120			
Chromium	0.200	0.00500	0.200	0	100	80	120			
Lead	0.203	0.00100	0.200	0.000450	101	80	120			
Potassium	11.6	0.300	5.00	7.52	81.1	80	120			
Selenium	0.218	0.00500	0.200	0.0161	101	80	120			
Silver	0.178	0.00200	0.200	0	88.8	80	120			

Sample ID	**1511130-03B MS**	Batch ID:	**72311**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS4_151117C**	Analysis Date:	**11/17/2015 1:37:00 PM**	Prep Date:	**11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.207	0.00500	0.200	0.0158	95.7	80	120			
Barium	0.243	0.0100	0.200	0.0528	95.2	80	120			
Cadmium	0.178	0.00100	0.200	0	89.1	80	120			
Calcium	108	0.300	5.00	104	81.5	80	120			
Chromium	0.185	0.00500	0.200	0	92.6	80	120			
Lead	0.183	0.00100	0.200	0.000450	91.4	80	120			
Magnesium	46.2	0.300	5.00	42.1	82.5	80	120			
Potassium	12.1	0.300	5.00	7.52	91.5	80	120			
Selenium	0.202	0.00500	0.200	0.0161	93.1	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151117C

Sample ID **1511130-03B MS**	Batch ID: **72311**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MS**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 1:37:00 PM**	Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.171	0.00200	0.200	0	85.5	80	120			

Sample ID **1511130-03B MSD**	Batch ID: **72311**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 1:39:00 PM**	Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.211	0.00500	0.200	0.0158	97.8	80	120	1.96	15	
Barium	0.247	0.0100	0.200	0.0528	97.2	80	120	1.58	15	
Cadmium	0.182	0.00100	0.200	0	90.8	80	120	1.90	15	
Calcium	108	0.300	5.00	104	95.1	80	120	0.631	15	
Chromium	0.189	0.00500	0.200	0	94.3	80	120	1.80	15	
Lead	0.191	0.00100	0.200	0.000450	95.2	80	120	4.07	15	
Magnesium	46.9	0.300	5.00	42.1	95.9	80	120	1.45	15	
Potassium	12.2	0.300	5.00	7.52	93.6	80	120	0.850	15	
Selenium	0.209	0.00500	0.200	0.0161	96.7	80	120	3.44	15	
Silver	0.175	0.00200	0.200	0	87.6	80	120	2.37	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151117C

Sample ID **ICV-151117**	Batch ID: **R82709**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 10:13:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Barium	0.0987	0.0100	0.100	0	98.7	90	110			
Cadmium	0.101	0.00100	0.100	0	101	90	110			
Calcium	2.37	0.300	2.50	0	94.7	90	110			
Chromium	0.105	0.00500	0.100	0	105	90	110			
Lead	0.102	0.00100	0.100	0	102	90	110			
Magnesium	2.43	0.300	2.50	0	97.1	90	110			
Potassium	2.37	0.300	2.50	0	95.0	90	110			
Selenium	0.100	0.00500	0.100	0	100	90	110			
Silver	0.0987	0.00200	0.100	0	98.7	90	110			

Sample ID **LCVL-151117**	Batch ID: **R82709**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 10:22:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00537	0.00500	0.00500	0	107	70	130			
Barium	0.00529	0.0100	0.00500	0	106	70	130			
Cadmium	0.00108	0.00100	0.00100	0	108	70	130			
Calcium	0.0982	0.300	0.100	0	98.2	70	130			
Chromium	0.00554	0.00500	0.00500	0	111	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Magnesium	0.103	0.300	0.100	0	103	70	130			
Potassium	0.0829	0.300	0.100	0	82.9	70	130			
Selenium	0.00504	0.00500	0.00500	0	101	70	130			
Silver	0.00208	0.00200	0.00200	0	104	70	130			

Sample ID **CCV1-151117**	Batch ID: **R82709**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 11:11:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.207	0.00500	0.200	0	104	90	110			
Barium	0.206	0.0100	0.200	0	103	90	110			
Cadmium	0.205	0.00100	0.200	0	103	90	110			
Calcium	4.81	0.300	5.00	0	96.2	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			
Magnesium	5.15	0.300	5.00	0	103	90	110			
Potassium	5.23	0.300	5.00	0	105	90	110			
Selenium	0.210	0.00500	0.200	0	105	90	110			
Silver	0.200	0.00200	0.200	0	99.9	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151117C

Sample ID **LCVL1-151117**	Batch ID: **R82709**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 11:23:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00536	0.00500	0.00500	0	107	70	130			
Barium	0.00523	0.0100	0.00500	0	105	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Calcium	0.101	0.300	0.100	0	101	70	130			
Chromium	0.00531	0.00500	0.00500	0	106	70	130			
Lead	0.00100	0.00100	0.00100	0	100	70	130			
Magnesium	0.105	0.300	0.100	0	105	70	130			
Potassium	0.0844	0.300	0.100	0	84.4	70	130			
Selenium	0.00577	0.00500	0.00500	0	115	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			

Sample ID **CCV2-151117**	Batch ID: **R82709**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 11:51:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.213	0.00500	0.200	0	106	90	110			
Barium	0.200	0.0100	0.200	0	99.8	90	110			
Cadmium	0.200	0.00100	0.200	0	99.9	90	110			
Calcium	4.89	0.300	5.00	0	97.9	90	110			
Chromium	0.199	0.00500	0.200	0	99.5	90	110			
Lead	0.207	0.00100	0.200	0	103	90	110			
Magnesium	5.12	0.300	5.00	0	102	90	110			
Potassium	5.38	0.300	5.00	0	108	90	110			
Selenium	0.217	0.00500	0.200	0	109	90	110			
Silver	0.193	0.00200	0.200	0	96.4	90	110			

Sample ID **LCVL2-151117**	Batch ID: **R82709**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 1:02:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00533	0.00500	0.00500	0	107	70	130			
Barium	0.00517	0.0100	0.00500	0	103	70	130			
Cadmium	0.00108	0.00100	0.00100	0	108	70	130			
Calcium	0.0993	0.300	0.100	0	99.3	70	130			
Chromium	0.00525	0.00500	0.00500	0	105	70	130			
Lead	0.000981	0.00100	0.00100	0	98.1	70	130			
Magnesium	0.0992	0.300	0.100	0	99.2	70	130			
Potassium	0.0834	0.300	0.100	0	83.4	70	130			
Selenium	0.00543	0.00500	0.00500	0	109	70	130			
Silver	0.00200	0.00200	0.00200	0	99.9	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151117C

Sample ID **CCV3-151117**	Batch ID: **R82709**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 1:56:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.210	0.00500	0.200	0	105	90	110			
Barium	0.206	0.0100	0.200	0	103	90	110			
Cadmium	0.204	0.00100	0.200	0	102	90	110			
Calcium	4.84	0.300	5.00	0	96.8	90	110			
Chromium	0.207	0.00500	0.200	0	104	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Magnesium	5.13	0.300	5.00	0	103	90	110			
Potassium	5.18	0.300	5.00	0	104	90	110			
Selenium	0.209	0.00500	0.200	0	104	90	110			
Silver	0.199	0.00200	0.200	0	99.7	90	110			

Sample ID **LCVL3-151117**	Batch ID: **R82709**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151117C**	Analysis Date: **11/17/2015 2:19:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00539	0.00500	0.00500	0	108	70	130			
Barium	0.00520	0.0100	0.00500	0	104	70	130			
Cadmium	0.00105	0.00100	0.00100	0	105	70	130			
Calcium	0.101	0.300	0.100	0	101	70	130			
Chromium	0.00531	0.00500	0.00500	0	106	70	130			
Lead	0.000975	0.00100	0.00100	0	97.5	70	130			
Magnesium	0.101	0.300	0.100	0	101	70	130			
Potassium	0.0846	0.300	0.100	0	84.6	70	130			
Selenium	0.00532	0.00500	0.00500	0	106	70	130			
Silver	0.00198	0.00200	0.00200	0	98.8	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151118A

The QC data in batch 72311 applies to the following samples: 1511130-01B, 1511130-02B, 1511130-03B, 1511130-04B, 1511130-05B, 1511130-06B, 1511130-07B, 1511130-08B, 1511130-09B, 1511130-10B, 1511130-11B

Sample ID **MB-72311** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_151118A** Analysis Date: **11/18/2015 11:40:00 A** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	0.300								

Sample ID **LCS-72311** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS4_151118A** Analysis Date: **11/18/2015 11:42:00 A** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	4.99	0.300	5.00	0	99.8	80	120			

Sample ID **LCSD-72311** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_151118A** Analysis Date: **11/18/2015 11:44:00 A** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	5.04	0.300	5.00	0	101	80	120	3.69	15	

Sample ID **1511130-03B SD** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_151118A** Analysis Date: **11/18/2015 11:50:00 A** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	109	75.0	0	111				2.37	10	
Magnesium	47.5	75.0	0	47.1				0.886	10	
Sodium	351	75.0	0	344				1.92	10	

Sample ID **1511130-03B PDS** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS4_151118A** Analysis Date: **11/18/2015 12:09:00 P** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	340	15.0	250	111	91.5	80	120			
Magnesium	302	15.0	250	47.1	102	80	120			
Sodium	593	15.0	250	344	99.3	80	120			

Sample ID **1511130-03B MS** Batch ID: **72311** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS4_151118A** Analysis Date: **11/18/2015 12:11:00 P** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	343	15.0	5.00	344	-23.2	80	120			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151118A

Sample ID **1511130-03B MSD**	Batch ID: **72311**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 12:13:00 P**	Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	353	15.0	5.00	344	163	80	120	2.68	15	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151118A

Sample ID **ICV-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **ICV**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 10:59:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0997	0.0100	0.100	0	99.7	90	110			
Calcium	2.43	0.300	2.50	0	97.1	90	110			
Magnesium	2.52	0.300	2.50	0	101	90	110			
Potassium	2.44	0.300	2.50	0	97.4	90	110			
Sodium	2.49	0.300	2.50	0	99.8	90	110			

Sample ID **LCVL-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 11:04:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00504	0.0100	0.00500	0	101	70	130			
Calcium	0.102	0.300	0.100	0	102	70	130			
Magnesium	0.105	0.300	0.100	0	105	70	130			
Potassium	0.103	0.300	0.100	0	103	70	130			
Sodium	0.107	0.300	0.100	0	107	70	130			

Sample ID **CCV1-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 11:32:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.94	0.300	5.00	0	98.8	90	110			
Magnesium	5.21	0.300	5.00	0	104	90	110			
Potassium	5.17	0.300	5.00	0	103	90	110			
Sodium	5.26	0.300	5.00	0	105	90	110			

Sample ID **LCVL1-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 11:36:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.104	0.300	0.100	0	104	70	130			
Magnesium	0.105	0.300	0.100	0	105	70	130			
Potassium	0.102	0.300	0.100	0	102	70	130			
Sodium	0.121	0.300	0.100	0	121	70	130			

Sample ID **CCV2-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 12:15:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.204	0.0100	0.200	0	102	90	110			
Calcium	4.95	0.300	5.00	0	98.9	90	110			
Magnesium	5.25	0.300	5.00	0	105	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151118A

Sample ID **CCV2-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 12:15:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	5.19	0.300	5.00	0	104	90	110			
Sodium	5.28	0.300	5.00	0	106	90	110			

Sample ID **LCVL2-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 12:20:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00532	0.0100	0.00500	0	106	70	130			
Calcium	0.101	0.300	0.100	0	101	70	130			
Magnesium	0.105	0.300	0.100	0	105	70	130			
Potassium	0.101	0.300	0.100	0	101	70	130			
Sodium	0.108	0.300	0.100	0	108	70	130			

Sample ID **CCV3-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 12:44:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.205	0.0100	0.200	0	103	90	110			
Calcium	4.89	0.300	5.00	0	97.8	90	110			
Magnesium	5.21	0.300	5.00	0	104	90	110			
Potassium	5.17	0.300	5.00	0	103	90	110			
Sodium	5.25	0.300	5.00	0	105	90	110			

Sample ID **LCVL3-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 12:51:00 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00507	0.0100	0.00500	0	101	70	130			
Calcium	0.100	0.300	0.100	0	100	70	130			
Magnesium	0.107	0.300	0.100	0	107	70	130			
Potassium	0.104	0.300	0.100	0	104	70	130			
Sodium	0.105	0.300	0.100	0	105	70	130			

Sample ID **CCV4-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 1:31:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.93	0.300	5.00	0	98.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151118A

Sample ID **LCVL4-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 1:35:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0979	0.300	0.100	0	97.9	70	130			

Sample ID **CCV5-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **CCV**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 2:03:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.94	0.300	5.00	0	98.8	90	110			

Sample ID **LCVL5-151118**	Batch ID: **R82723**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **LCVL**	Run ID: **ICP-MS4_151118A**	Analysis Date: **11/18/2015 2:07:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.100	0.300	0.100	0	100	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC3_151116A

The QC data in batch 72326 applies to the following samples: 1511130-01C, 1511130-02C, 1511130-03C, 1511130-04C, 1511130-05C, 1511130-06C, 1511130-07C, 1511130-08C, 1511130-09C, 1511130-10C, 1511130-11C

Sample ID	**MB-72326**	Batch ID:	**72326**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**IC3_151116A**	Analysis Date:	**11/16/2015 10:23:23 A**	Prep Date:	**11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID	**LCS-72326**	Batch ID:	**72326**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**IC3_151116A**	Analysis Date:	**11/16/2015 10:44:01 A**	Prep Date:	**11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.44	1.00	10.00	0	94.4	90	110			
Sulfate	29.5	3.00	30.00	0	98.2	90	110			

Sample ID	**LCSD-72326**	Batch ID:	**72326**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**IC3_151116A**	Analysis Date:	**11/16/2015 11:04:41 A**	Prep Date:	**11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.50	1.00	10.00	0	95.0	90	110	0.613	20	
Sulfate	29.6	3.00	30.00	0	98.7	90	110	0.504	20	

Sample ID	**1511130-03C MS**	Batch ID:	**72326**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**IC3_151116A**	Analysis Date:	**11/16/2015 4:14:14 PM**	Prep Date:	**11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2430	100	2000	489.9	97.1	90	110			
Sulfate	2300	300	2000	306.8	99.5	90	110			

Sample ID	**1511130-03C MSD**	Batch ID:	**72326**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**IC3_151116A**	Analysis Date:	**11/16/2015 4:34:53 PM**	Prep Date:	**11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2260	100	2000	489.9	88.4	90	110	7.38	20	S
Sulfate	2130	300	2000	306.8	91.4	90	110	7.31	20	

Sample ID	**1511132-09C MS**	Batch ID:	**72326**	TestNo:	**E300**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**IC3_151116A**	Analysis Date:	**11/16/2015 11:06:51 P**	Prep Date:	**11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	280	5.00	100.0	195.4	85.1	90	110			S
Sulfate	167	15.0	100.0	74.37	93.1	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC3_151116A

Sample ID **1511132-09C MSD** Batch ID: **72326** TestNo: **E300** Units: **mg/L**
SampType: **MSD** Run ID: **IC3_151116A** Analysis Date: **11/16/2015 11:27:31 P** Prep Date: **11/16/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	276	5.00	100.0	195.4	81.1	90	110	1.45	20	S
Sulfate	166	15.0	100.0	74.37	92.0	90	110	0.644	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: IC3_151116A

Sample ID **ICV-151116**	Batch ID: **R82707**	TestNo: **E300**	Units: **mg/L**
SampType: **ICV**	Run ID: **IC3_151116A**	Analysis Date: **11/16/2015 9:42:05 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	23.4	1.00	25.00	0	93.4	90	110			
Sulfate	71.7	3.00	75.00	0	95.6	90	110			

Sample ID **CCV1-151116**	Batch ID: **R82707**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC3_151116A**	Analysis Date: **11/16/2015 3:32:57 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.71	1.00	10.00	0	97.1	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Sample ID **CCV2-151116**	Batch ID: **R82707**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC3_151116A**	Analysis Date: **11/16/2015 8:21:50 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.49	1.00	10.00	0	94.9	90	110			
Sulfate	29.3	3.00	30.00	0	97.7	90	110			

Sample ID **CCV3-151116**	Batch ID: **R82707**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC3_151116A**	Analysis Date: **11/16/2015 11:48:10 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.63	1.00	10.00	0	96.3	90	110			
Sulfate	30.2	3.00	30.00	0	101	90	110			

Sample ID **CCV5-151116**	Batch ID: **R82707**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC3_151116A**	Analysis Date: **11/17/2015 10:27:45 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	31.9	3.00	30.00	0	106	90	110			

Sample ID **CCV6-151116**	Batch ID: **R82707**	TestNo: **E300**	Units: **mg/L**
SampType: **CCV**	Run ID: **IC3_151116A**	Analysis Date: **11/17/2015 3:16:43 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	30.3	3.00	30.00	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_151113A

The QC data in batch 72315 applies to the following samples: 1511130-01C, 1511130-02C, 1511130-03C, 1511130-04C, 1511130-05C, 1511130-06C, 1511130-07C, 1511130-08C, 1511130-09C, 1511130-10C, 1511130-11C

Sample ID **MB-72315** Batch ID: **72315** TestNo: **M2320 B** Units: **mg/L @ pH 4.51**
SampType: **MBLK** Run ID: **TITRATOR_151113A** Analysis Date: **11/13/2015 11:12:00 A** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID **LCS-72315** Batch ID: **72315** TestNo: **M2320 B** Units: **mg/L @ pH 4.5**
SampType: **LCS** Run ID: **TITRATOR_151113A** Analysis Date: **11/13/2015 11:16:00 A** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	53.5	20.0	50.00	0	107	74	129			

Sample ID **1511130-01C DUP** Batch ID: **72315** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
SampType: **DUP** Run ID: **TITRATOR_151113A** Analysis Date: **11/13/2015 11:30:00 A** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	189	20.0	0	190.8				0.772	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	189	20.0	0	190.8				0.772	20	

Sample ID **1511130-11C DUP** Batch ID: **72315** TestNo: **M2320 B** Units: **mg/L @ pH 4.53**
SampType: **DUP** Run ID: **TITRATOR_151113A** Analysis Date: **11/13/2015 1:58:00 PM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	725	20.0	0	725.9				0.073	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	725	20.0	0	725.9				0.073	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_151113A

Sample ID **ICV-151113**	Batch ID: **R82676**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.5**
SampType: **ICV**	Run ID: **TITRATOR_151113A**	Analysis Date: **11/13/2015 11:03:00 A**	Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	4.72	20.0	0							
Alkalinity, Carbonate (As CaCO3)	95.5	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	100	20.0	100.0	0	100	98	102			

Sample ID **CCV1-151113**	Batch ID: **R82676**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.51**
SampType: **CCV**	Run ID: **TITRATOR_151113A**	Analysis Date: **11/13/2015 1:06:00 PM**	Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	19.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	80.2	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.5	20.0	100.0	0	99.5	90	110			

Sample ID **CCV2-151113**	Batch ID: **R82676**	TestNo: **M2320 B**	Units: **mg/L @ pH 4.5**
SampType: **CCV**	Run ID: **TITRATOR_151113A**	Analysis Date: **11/13/2015 2:45:00 PM**	Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	27.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	72.0	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.0	20.0	100.0	0	99.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1511130
Project: Targa Eunice

ANALYTICAL QC SUMMARY REPORT

RunID: WC_151113A

The QC data in batch 72321 applies to the following samples: 1511130-01C, 1511130-02C, 1511130-03C, 1511130-04C, 1511130-05C, 1511130-06C, 1511130-07C, 1511130-08C, 1511130-09C, 1511130-10C, 1511130-11C

Sample ID **MB-72321** Batch ID: **72321** TestNo: **M2540C** Units: **mg/L**
SampType: **MBLK** Run ID: **WC_151113A** Analysis Date: **11/16/2015 7:55:00 AM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10.0								

Sample ID **LCS-72321** Batch ID: **72321** TestNo: **M2540C** Units: **mg/L**
SampType: **LCS** Run ID: **WC_151113A** Analysis Date: **11/16/2015 7:55:00 AM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	755	10.0	745.6	0	101	90	113			

Sample ID **1511127-01D-DUP** Batch ID: **72321** TestNo: **M2540C** Units: **mg/L**
SampType: **DUP** Run ID: **WC_151113A** Analysis Date: **11/16/2015 7:55:00 AM** Prep Date: **11/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	253	10.0	0	248.0				2.00	5	

Sample ID **1511130-05C-DUP** Batch ID: **72321** TestNo: **M2540C** Units: **mg/L**
SampType: **DUP** Run ID: **WC_151113A** Analysis Date: **11/16/2015 7:55:00 AM** Prep Date: **11/13/2015**

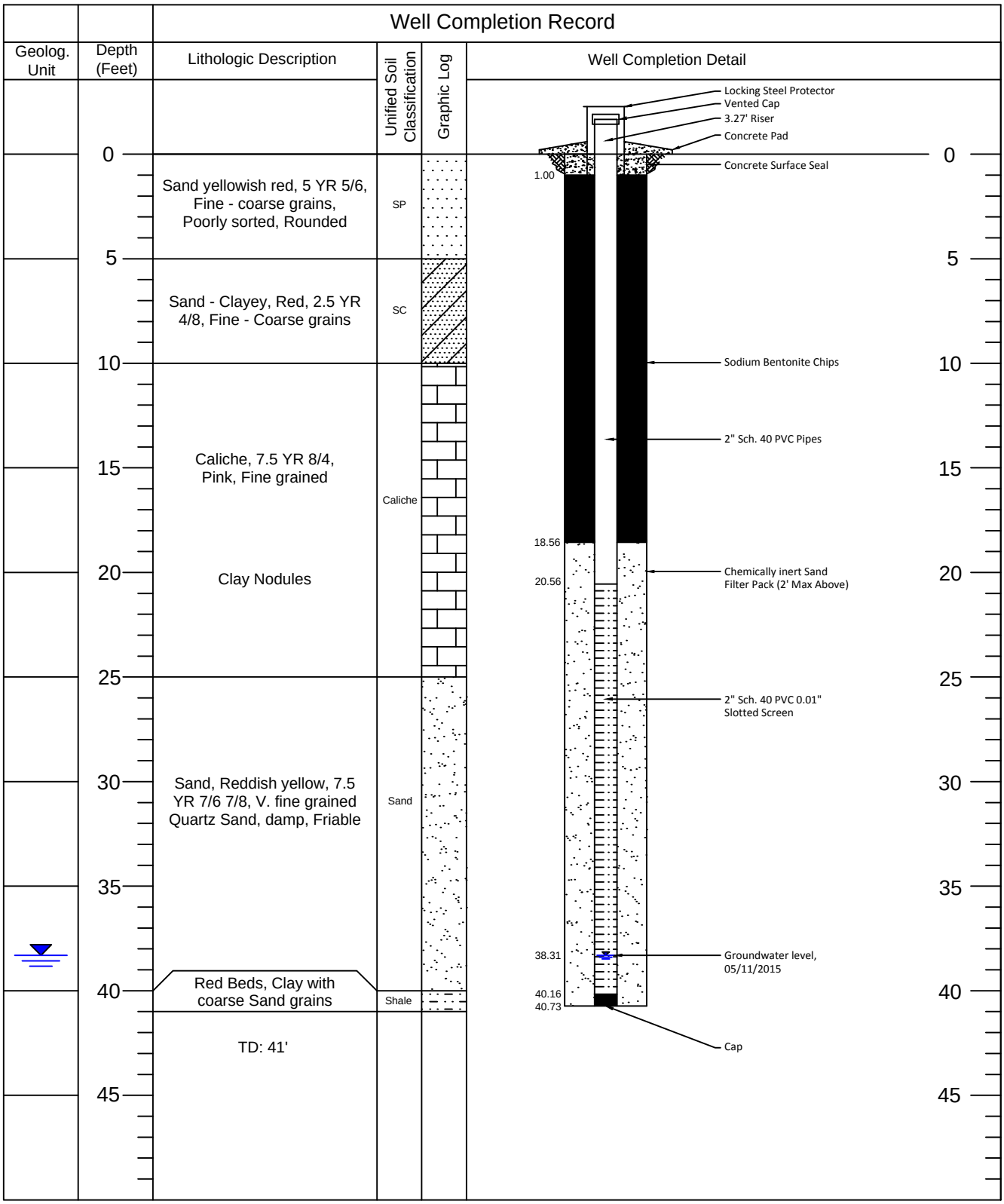
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	1050	10.0	0	1033				1.25	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

APPENDIX B

BORING LOG



Legend

Stabilized Water Table

Ground Elevation: 3,369.03'
ToC. Elevation: 3,372.3'

Date Drilled -	04/16/2015
Drilling Method -	Air Rotary
Drilled By -	Scarborough Drilling Inc.
Logged By -	KMM
Checked By -	MJL

Targa Midstream Services, LLC.
Targa Eunice Plant
Lee County, New Mexico

Larson & Associates, Inc.
Environmental Consultants

Boring and Completion Log: MW - 30