

January 14, 2015

Mr. Ken Peterson
PO Box 677
Ellensburg, WA 98926

**Re: Groundwater Monitoring Report
Ken's Auto Wash
2013-2014 Annual Report
7168-10**

Dear Mr. Peterson:

This letter report presents the results of the groundwater monitoring we conducted between August 2013 and November 2014 at Ken's Auto Wash at 1013 East University Way in Ellensburg, Washington (Figure 1).

This groundwater monitoring report was prepared on behalf of Mr. Ken Peterson of Ken's Auto Wash. Groundwater monitoring is being conducted following actions completed in compliance with an Agreed Order (dated December 23, 2013) with the Washington State Department of Ecology (Ecology) under the Model Toxics Control Act (MTCA – RCW 70.105D.040[5]).

Project Background Summary

The site is affected by a petroleum hydrocarbon release discovered during tightness testing for a gasoline underground storage tank (UST) in 1996. Corrective actions were taken at that time, and the gasoline UST was subsequently removed with all other site USTs in April 2005 (June 7, 2005, Gasoline UST Closure Report by Hart Crowser). The former UST area is identified on Figure 2. Prior to UST removal, Hart Crowser removed a hotspot of accessible petroleum-impacted soil at the location shown on Figure 2 in October and November 2000. During the hotspot removal, oxygen-release compound (ORC) was added to the excavation backfill below the seasonal high water table elevation to promote biodegradation of remaining petroleum hydrocarbons. ORC was also injected in the area of affected groundwater immediately downgradient of the UST area in February 2005 (April 6, 2005, Supplemental Strataprobe Exploration Report by Hart Crowser).

Additional project and regulatory background information is presented in Hart Crowser's November 14, 2006, Remedial Investigation and Feasibility Study Report (RI/FS). The RI/FS identified monitored natural attenuation with free product removal as the preferred remedial action. No free product has



been identified at the site since 2004. Hart Crowser is continuing to monitor groundwater to document site conditions.

In 2011, Hart Crowser implemented a bioremediation program to accelerate natural biological attenuation of petroleum at the site. The enhanced bioremediation program introduced remediation amendments (hydrocarbon-degrading microbes, surfactants, and nutrients) into existing monitoring wells to accelerate natural attenuation already occurring at the site over a series of three injection events, which occurred on January 31, May 3, and November 30, 2011. Based on groundwater monitoring data collected through February 2012, substantial petroleum destruction has occurred within the treatment zone (May 16, 2012, Bioremediation Data Report by Hart Crowser). However, the data also show that the biological oxidants have been consumed and one monitoring well (MW-14) continues to have petroleum concentrations above MTCA Method A cleanup levels.

Groundwater Monitoring

Table 1 outlines the groundwater monitoring schedule for the Ken's Auto Wash site. Hart Crowser completed six groundwater monitoring events on:

- August 27, 2013 (quarterly event)
- November 19 and 20, 2013 (annual event)
- February 27, 2014 (quarterly event)
- May 23, 2014 (quarterly event)
- August 21, 2014 (quarterly event)
- November 20 and 21, 2014 (annual event)

Quarterly monitoring included sampling groundwater from four monitoring wells (MW-4R, MW-6, MW-13, and MW-14). Annual monitoring included sampling groundwater from eight monitoring wells (MW-2, MW-3, MW-4R, MW-5, MW-6, MW-13, MW-14, and MW-15). MW-12 is considered lost and possibly destroyed due to the regrading of the Fairgrounds unpaved parking lot after the November 2011 monitoring event. Monitoring well locations are identified on Figure 2. Groundwater was collected for analysis of:

- Gasoline-range petroleum hydrocarbons (TPH-G) by Ecology Method NWTPH-G;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B;
- Nitrogen as nitrate and sulfate by EPA Method 300.0; and/or
- Total lead by EPA Method 6020 (November 2013 and 2014 events only).

In addition, ferrous iron was measured in the field using a Hach color disc. Nitrate, sulfate, and ferrous iron are being monitored to evaluate biodegradation trends at the site.



After measuring the depth to groundwater, samples were collected from the wells using standard low-flow sampling techniques. Each well was purged until the field parameters of pH, temperature, and specific conductivity met the stability criteria (i.e., specific conductivity ± 10 percent, pH ± 0.1 pH units, and temperature $\pm 0.1^\circ$ C). Following stabilization, field testing for ferrous iron was performed. Groundwater samples were collected for laboratory testing by directly filling pre-cleaned sample containers provided by the laboratory. The labeled sample containers were placed in coolers with ice. Samples were transferred under chain of custody protocol to Analytical Resources, Inc. (ARI) in Tukwila, Washington, for laboratory analysis.

Groundwater Measurements

Table 2 presents the measured depth to groundwater from the top of the well casing and the calculated groundwater elevations. Figure 3a and 3b illustrates the groundwater elevation and interpolated groundwater elevation contours based on measurements taken during the November 2013 and November 2014 sampling events, respectively. The contours indicate that the groundwater gradient continues to be toward the southwest, which is also consistent with historical observations. Typically, groundwater elevations are high in the spring and low in the fall.

Analytical Results

Analytical results are summarized in Table 3 for TPH-G, BTEX, and lead. Table 4 presents analytical data for other inorganic ions and field parameters. Table 5 documents the observed thickness of free-phase product from previous monitoring events. No free product has been observed since 2004, before removal of the site USTs and ORC injection in 2005. Figures 4 and 5 illustrate the occurrence of TPH-G and benzene in groundwater, respectively. Figures 6 and 7 illustrate the long-term trends in TPH-G and benzene concentrations in groundwater, respectively. Laboratory reports are provided in Appendix A.

Data Observations

Based on the monitoring data from August and November 2013 and February, May, August, and November 2014, we observed the following.

- Monitoring results indicate that concentrations of TPH-G in the vicinity and downgradient of the former UST and hotspot soil excavations continue to be below MTCA cleanup levels with the exception of wells MW-14 and MW-6 that are located downgradient from the previous source area and UST excavation.
- Well MW-14 exhibited TPH-G concentrations ranging from 340 $\mu\text{g/L}$ (November 2014) to 1,400 $\mu\text{g/L}$ (February 2014). Well MW-6 had concentrations from non-detect at a reporting limit of 100 $\mu\text{g/L}$ (February 2014) to 920 $\mu\text{g/L}$ (May 2014).



- Benzene concentrations in site wells were non-detect at the specified reporting limit for all six groundwater monitoring events. Benzene has been non-detect since October 2008 (Figure 5). Given the lack of detectable benzene in site groundwater for the past 6 years, use of the TPH-G cleanup level of 1,000 µg/L for evaluating regulatory compliance appears to be appropriate at the Ken's Auto site.
- Ethylbenzene and xylene were detected in MW-6 during the May 2014 event at concentrations below the MTCA cleanup level of 700 and 1,000 µg/L, respectively. Ethylbenzene, toluene, and xylene were detected in MW-14 at concentrations below respective MTCA cleanup levels and continue to be non-detect in samples in the remaining wells.
- Total lead was only analyzed during the November 2013 and 2014 sampling events. Total lead was detected in six wells (MW-14, MW-2, MW-3, MW-4R, MW-5, and MW-6) at concentrations ranging from 0.1 to 4.5 µg/L, which is well below the MTCA cleanup level of 15 µg/L.
- Ferrous iron was detected in three wells (MW-14, MW-4R, and MW-6). Dissolved oxygen was detected in the site wells at concentrations varying between 0.05 and 6.02 mg/L. Low concentrations of dissolved oxygen and elevated concentrations of ferrous iron were typically found at and downgradient of the former UST area.
- Site monitoring also continued to include analysis of nitrate and sulfate to assess the bioremediation program. Well MW-14 has higher concentrations of nitrate and sulfate present than the other wells; however, the concentrations are significantly lower than when the bioremediation injections were implemented in 2011 indicating nutrients have been consumed by microbes.

Conclusions

The observed TPH-G concentrations in well MW-14 suggest that residual TPH-G remains in the soil that was left in place near the utility line along University Way during the hotspot excavation in 2000. Natural attenuation is still occurring at the site and would likely continue to decrease TPH concentrations over time. To expedite the natural attenuation timeframe, we proposed performing additional bioremediation actions at the site.

The additional bioremediation lance injections are planned in early 2015 in the area where residual TPH-impacted soil was left in place. The lance injections will distribute biological and chemical oxidants to the impacted areas rather than injecting in wells for passive transport with the groundwater flow. These additional bioremediation lance injections will aggressively mobilize the residual TPH in soil and boost microbial activity for TPH destruction.



Ken Peterson
January 14, 2015

7168-10
Page 5

We will conduct quarterly groundwater monitoring events beginning in 2015 to monitor treatment progress in selected wells through Fall 2016. Annual sampling should be completed in Fall of 2015 and 2016 for all monitoring wells.

Limitations

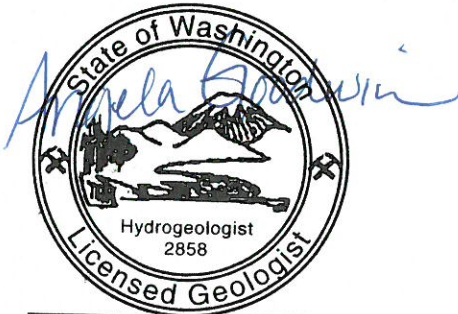
Work for this project was performed, and this letter report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. It is intended for the exclusive use of Ken's Auto Wash for specific application to the referenced property. This report is not meant to represent a legal opinion. No other warranty, express or implied, is made.

Any questions regarding our work and this letter report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned.

We trust that this report meets your needs.

Sincerely,

HART CROWSER, INC.



ANGELA J. GOODWIN

ANGIE GOODWIN, LHG
Project Hydrogeologist

MICHAEL W. EHLEBRACHT, LG, LHG
Principal



Ken Peterson
January 14, 2015

7168-10
Page 6

Attachments:

Table 1 - Groundwater Monitoring Schedule

Table 2 - Groundwater Elevation Data

Table 3 - Summary of Groundwater Chemistry Data – TPH-G, BTEX, and Lead

Table 4 - Summary of Groundwater Chemistry Data – Other Compounds

Table 5 - Measured Free Product Thickness in Well MW-1/MW-14

Figure 1 - Vicinity Map

Figure 2 - Site and Well Location Plan

Figure 3a - Groundwater Elevation Contour Map, November 2013

Figure 3b - Groundwater Elevation Contour Map, November 2014

Figure 4 - TPH-G Occurrences in Groundwater

Figure 5 - Benzene Occurrences in Groundwater

Figure 6 - Long-Term Trends in TPH-G Concentrations in Groundwater

Figure 7 - Long-Term Trends in Benzene Concentrations in Groundwater

Appendix A – Chemical Data Quality Review and Laboratory Reports

L:\Notebooks\716810_Ken's Auto Wash\Deliverables\Reports\Final Groundwater Monitoring Report\2013-2014 Annual Report.docx

Table 1 - Groundwater Monitoring Schedule

| Well | Purpose | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|---------|-------------------------------|-----------|-----------|----------|--------------|----------|----------|--------------|--------|
| MW-2 | Bound Plume - East | Quarterly | Quarterly | Biannual | ^a | Biannual | Biannual | ^a | Annual |
| MW-3 | Background | Quarterly | Quarterly | Biannual | ^a | Biannual | Biannual | ^a | Annual |
| MW-4/4R | Source Area (Upgradient Edge) | Quarterly | Quarterly | Biannual | Biannual | Biannual | Biannual | Annual | Annual |
| MW-5 | Bound Plume - West | Quarterly | Quarterly | Biannual | Biannual | Biannual | Biannual | Annual | Annual |
| MW-6 | Plume Extent | Quarterly | Quarterly | Biannual | ^a | Biannual | Biannual | ^a | Annual |
| MW-12 | Bound Plume - Southwest | Quarterly | Quarterly | Biannual | Biannual | Biannual | Biannual | Annual | Annual |
| MW-13 | Bound Plume - South | Quarterly | Quarterly | Biannual | ^a | Biannual | Biannual | ^a | Annual |
| MW-14 | Source Area | Quarterly | Quarterly | Biannual | Biannual | Biannual | Biannual | Annual | Annual |
| MW-15 | Bound Plume - Southeast | Quarterly | Quarterly | Biannual | ^a | Biannual | Biannual | ^a | Annual |

| Well | Purpose | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------|-------------------------------|------------------------|-----------|-----------|-----------|-----------|-----------|
| MW-2 | Bound Plume - East | Annual ^b | Annual | Annual | Annual | Annual | Annual |
| MW-3 | Background | Quarterly ^b | Annual | Annual | Annual | Annual | Annual |
| MW-4/4R | Source Area (Upgradient Edge) | Quarterly ^b | Quarterly | Quarterly | Quarterly | Quarterly | Quarterly |
| MW-5 | Bound Plume - West | Annual ^b | Annual | Annual | Annual | Annual | Annual |
| MW-6 | Plume Extent | Quarterly ^b | Quarterly | Quarterly | Quarterly | Quarterly | Quarterly |
| MW-12 ^c | Bound Plume - Southwest | Annual ^b | Annual | Annual | Annual | Annual | Annual |
| MW-13 | Bound Plume - South | Annual ^b | Quarterly | Quarterly | Quarterly | Quarterly | Quarterly |
| MW-14 | Source Area | Quarterly ^b | Quarterly | Quarterly | Quarterly | Quarterly | Quarterly |
| MW-15 | Bound Plume - Southeast | Annual ^b | Annual | Annual | Annual | Annual | Annual |

Notes:

Biannual refers to twice yearly events targeted during spring (Q2) and fall (Q4). Annual refers to the fall (Q4) event. Biannual and annual monitoring schedules will be based on estimated seasonal high and low groundwater elevations.

Monitoring will include measurement of groundwater elevation and dissolved oxygen and collection of a groundwater sample for analysis by NWTPH-G/BTEX and the annual event will also include total lead.

Monitoring also includes collection of groundwater samples for analysis for nitrate, nitrite, sulfate, and/or ferrous iron.

a Although not strictly required, wells MW-2, MW-3, MW-6, MW-13, and MW-15 were monitored and sampled during the fall of 2006 and 2009.

b Quarterly monitoring is part of the Bioremediation Work Plan, dated November 22, 2010.

c Well MW-12 has been lost or destroyed during regrading of the Fairgrounds unpaved parking area post-November 2011 monitoring event.

Table 2 - Groundwater Elevation Data

| Measured Depth to Groundwater in Feet | | | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Well No. | 8-Apr-96 | 5-Jan-98 | 5-Feb-98 | 5-Mar-98 | 6-Apr-98 | 5-May-98 | 5-Jun-98 | 6-Jul-98 | 5-Aug-98 | 4-Sep-98 | 5-Oct-98 | 5-Nov-98 | 29-Dec-99 | 21-Mar-00 |
| MW-1 | 6.85 | na | 7.67 | 8.01 | 8.38 | 6.88 | 6.94 | 7.50 | 7.69 | 7.82 | 7.85 | 8.33 | 9.65 | 8.51 |
| MW-14 (b) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 6.70 | 7.53 | 6.50 | 6.88 | 7.18 | 5.69 | 5.79 | 6.19 | 6.55 | 6.58 | 7.70 | 7.06 | 7.23 | 7.18 |
| MW-3 | 8.08 | 8.42 | 7.65 | 8.01 | 8.17 | 6.71 | 7.50 | 7.42 | 7.51 | 7.66 | 7.80 | 8.28 | 8.41 | 8.29 |
| MW-4 | --- | 7.84 | 7.17 | 7.43 | 7.67 | 6.42 | 6.57 | 6.90 | 7.01 | 7.14 | 7.21 | 7.62 | 7.68 | 7.60 |
| MW-4R (c) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-5 | --- | 8.23 | 7.15 | 7.45 | 7.96 | 6.24 | 6.34 | 6.65 | 7.16 | 7.29 | 7.41 | 7.94 | 7.52 | 7.32 |
| MW-6 | --- | 9.70 | 8.67 | 9.13 | 9.46 | 8.14 | 8.21 | 8.66 | 8.87 | 9.01 | 9.05 | 9.51 | 8.60 | 8.36 |
| MW-12 (d) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.91 | 6.64 |
| MW-13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.42 | 5.33 |
| MW-15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| Groundwater Elevation in Feet | | | | | | | | | | | | | | | |
|--------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Well No. | TOC Elev. (a) | 8-Apr-96 | 5-Jan-98 | 5-Feb-98 | 5-Mar-98 | 6-Apr-98 | 5-May-98 | 5-Jun-98 | 6-Jul-98 | 5-Aug-98 | 4-Sep-98 | 5-Oct-98 | 5-Nov-98 | 29-Dec-99 | 21-Mar-00 |
| MW-1 | 1588.38 | 1581.53 | na | 1580.71 | 1580.37 | 1580.00 | 1581.50 | 1581.44 | 1580.88 | 1580.69 | 1580.56 | 1580.53 | 1580.05 | 1578.73 | 1579.87 |
| MW-14 (b) | 1588.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 1588.92 | 1582.22 | 1581.39 | 1582.42 | 1582.04 | 1581.74 | 1583.23 | 1583.13 | 1582.73 | 1582.37 | 1582.34 | 1581.22 | 1581.86 | 1581.69 | 1581.74 |
| MW-3 | 1591.43 | 1583.35 | 1583.01 | 1583.78 | 1583.42 | 1583.26 | 1584.72 | 1583.93 | 1584.01 | 1583.92 | 1583.77 | 1583.63 | 1583.15 | 1583.02 | 1583.14 |
| MW-4 | 1589.50 | --- | 1581.66 | 1582.33 | 1582.07 | 1581.83 | 1583.08 | 1582.93 | 1582.60 | 1582.49 | 1582.36 | 1582.29 | 1581.88 | 1581.82 | 1581.90 |
| MW-4R (c) | 1588.76 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-5 | 1587.75 | --- | 1579.52 | 1580.60 | 1580.30 | 1579.79 | 1581.51 | 1581.41 | 1581.10 | 1580.59 | 1580.46 | 1580.34 | 1579.81 | 1580.23 | 1580.43 |
| MW-6 | 1587.72 | --- | 1578.02 | 1579.05 | 1578.59 | 1578.26 | 1579.58 | 1579.51 | 1579.06 | 1578.85 | 1578.71 | 1578.67 | 1578.21 | 1579.12 | 1579.36 |
| MW-12 (d) | 1585.41 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1578.50 | 1578.77 |
| MW-13 | 1582.45 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1577.03 | 1577.12 |
| MW-15 | 1588.39 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Table 2 - Groundwater Elevation Data

Measured Depth to Groundwater in Feet

| Well No. | 14-Jun-00 | 12-Sep-00 | 30-Jan-01 | 26-Apr-01 | 29-Jul-01 | 27-Oct-01 | 15-Nov-02 | 9-May-03 | 30-Sep-03 | 11-Dec-03 | 31-Mar-04 | 2-Jun-04 | 30-Sep-04 | 14-Dec-04 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|
| MW-1 | 7.08 | 7.85 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-14 (b) | --- | --- | 8.55 | 8.35 | 7.01 | 9.02 | 8.90 | 6.23 | 8.05 | 8.58 | 8.32 | 6.28 | 7.79 | 8.45 |
| MW-2 | 6.10 | 6.70 | 7.54 | 7.11 | 6.23 | 7.64 | 7.61 | 5.95 | 6.81 | 7.03 | 7.05 | 5.94 | 6.69 | 7.07 |
| MW-3 | 7.42 | 7.92 | 8.70 | 7.67 | 7.28 | 8.66 | 8.63 | 6.89 | 8.06 | 8.48 | 8.30 | 6.98 | 7.92 | 8.64 |
| MW-4 | 6.80 | 7.23 | 8.08 | 7.85 | 6.93 | 8.09 | 8.04 | 6.71 | 7.65 | 7.81 | 7.70 | 6.62 | 7.44 | 7.86 |
| MW-4R (c) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-5 | 6.25 | 6.87 | na | 7.98 | 6.29 | 7.97 | 8.05 | 6.19 | 7.55 | 7.83 | 7.59 | 6.14 | --- | 9.21 |
| MW-6 | 7.70 | 8.07 | na | 9.28 | 8.09 | 9.44 | 9.37 | 7.91 | 8.90 | 9.19 | 9.00 | 7.82 | 8.88 | 9.49 |
| MW-12 (d) | 6.05 | 6.36 | na | 7.30 | 6.38 | 7.13 | 7.52 | 6.50 | 7.25 | 7.38 | 7.18 | 6.40 | 7.31 | 7.81 |
| MW-13 | 4.70 | 4.98 | na | 5.74 | 4.67 | 5.78 | --- | --- | 5.32 | 5.73 | 5.49 | 4.63 | 5.18 | 5.81 |
| MW-15 | --- | --- | 9.23 | 8.83 | 7.59 | 9.30 | 9.08 | 7.38 | 8.55 | 8.67 | 8.85 | 7.31 | 8.33 | 9.20 |

Groundwater Elevation in Feet

| Well No. | TOC Elev. (a) | 14-Jun-00 | 12-Sep-00 | 30-Jan-01 | 26-Apr-01 | 29-Jul-01 | 27-Oct-01 | 15-Nov-02 | 9-May-03 | 30-Sep-03 | 11-Dec-03 | 31-Mar-04 | 2-Jun-04 | 30-Sep-04 | 14-Dec-04 |
|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|
| MW-1 | 1588.38 | 1581.30 | 1580.53 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-14 (b) | 1588.4 | --- | --- | 1579.85 | 1580.05 | 1581.39 | 1579.38 | 1579.50 | 1582.17 | 1580.35 | 1579.82 | 1580.08 | 1582.12 | 1580.61 | 1579.95 |
| MW-2 | 1588.92 | 1582.82 | 1582.22 | 1581.38 | 1581.81 | 1582.69 | 1581.28 | 1581.31 | 1582.97 | 1582.11 | 1581.89 | 1581.87 | 1582.98 | 1582.23 | 1581.85 |
| MW-3 | 1591.43 | 1584.01 | 1583.51 | 1582.73 | 1583.76 | 1584.15 | 1582.77 | 1582.80 | 1584.54 | 1583.37 | 1582.95 | 1583.13 | 1584.45 | 1583.51 | 1582.79 |
| MW-4 | 1589.50 | 1582.70 | 1582.27 | 1581.42 | 1581.65 | 1582.57 | 1581.41 | 1581.46 | 1582.79 | 1581.85 | 1581.69 | 1581.80 | 1582.88 | 1582.06 | 1581.64 |
| MW-4R (c) | 1588.76 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-5 | 1587.75 | 1581.50 | 1580.88 | na | 1579.77 | 1581.46 | 1579.78 | 1579.70 | 1581.56 | 1580.20 | 1579.92 | 1580.16 | 1581.61 | --- | 1578.54 |
| MW-6 | 1587.72 | 1580.02 | 1579.65 | na | 1578.44 | 1579.63 | 1578.28 | 1578.35 | 1579.81 | 1578.82 | 1578.53 | 1578.72 | 1579.90 | 1578.84 | 1578.23 |
| MW-12 (d) | 1585.41 | 1579.36 | 1579.05 | na | 1578.11 | 1579.03 | 1578.28 | 1577.89 | 1578.91 | 1578.16 | 1578.03 | 1578.23 | 1579.01 | 1578.10 | 1577.60 |
| MW-13 | 1582.45 | 1577.75 | 1577.47 | na | 1576.71 | 1577.78 | 1576.67 | --- | --- | 1577.13 | 1576.72 | 1576.96 | 1577.82 | 1577.27 | 1576.64 |
| MW-15 | 1588.39 | --- | --- | 1579.16 | 1579.56 | 1580.80 | 1579.09 | 1579.31 | 1581.01 | 1579.84 | 1579.72 | 1579.54 | 1581.08 | 1580.06 | 1579.19 |

Table 2 - Groundwater Elevation Data

Measured Depth to Groundwater in Feet

| Well No. | 4-Apr-05 | 6-Oct-05 | 28-Jun-06 | 13-Nov-06 | 25-May-07 | 8-Nov-07 | 4-Jun-08 | 21-Oct-08 | 14-Oct-09 | 15-Nov-10 | 2-May-11 | 27-Jul-11 | 2-Nov-11 | 13-Feb-12 |
|-----------|----------|----------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|----------|-----------|----------|-----------|
| MW-1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-14 (b) | 8.63 | 7.83 | 6.15 | 7.57 | 5.23 | 8.04 | 5.20 | 7.57 | 7.20 | 8.11 | 5.88 | 6.57 | 7.91 | 7.35 |
| MW-2 | 7.57 | 7.21 | nm | 7.01 | 5.56 | 7.18 | 5.46 | 6.80 | 6.77 | 7.23 | nm | nm | 7.20 | nm |
| MW-3 | 8.80 | 8.37 | nm | 8.13 | 6.72 | 8.52 | 6.52 | 8.17 | 8.00 | 8.64 | 6.75 | 7.45 | 8.75 | 8.29 |
| MW-4 | 8.02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4R (c) | --- | 7.78 | 6.01 | 6.23 | 5.45 | 6.92 | 5.39 | 6.60 | 6.51 | 6.94 | 5.84 | 6.00 | 6.88 | 6.71 |
| MW-5 | 8.32 | 7.73 | 6.38 | 7.32 | 5.83 | 7.97 | 5.82 | 7.40 | 7.12 | 7.99 | nm | nm | 7.79 | nm |
| MW-6 | 9.78 | 9.14 | nm | 8.79 | 7.56 | 9.22 | 7.43 | 8.84 | 8.58 | 9.20 | 7.90 | 8.16 | 9.36 | 9.13 |
| MW-12 (d) | 7.89 | 7.51 | 6.90 | 7.20 | 6.41 | 7.62 | 6.30 | 7.30 | 7.16 | 7.63 | nm | nm | 7.61 | --- |
| MW-13 | 5.16 | 5.56 | nm | 5.91 | 4.46 | 5.68 | 4.43 | 5.40 | 5.11 | 5.60 | 4.85 | 4.88 | 5.64 | 5.45 |
| MW-15 | 9.40 | 8.02 | nm | 8.49 | 6.98 | 8.96 | 6.90 | 8.57 | 8.22 | 9.04 | nm | nm | 9.04 | nm |

Groundwater Elevation in Feet

| Well No. | TOC Elev. (a) | 4-Apr-05 | 6-Oct-05 | 28-Jun-06 | 13-Nov-06 | 25-May-07 | 8-Nov-07 | 4-Jun-08 | 21-Oct-08 | 14-Oct-09 | 15-Nov-10 | 2-May-11 | 27-Jul-11 | 2-Nov-11 | 13-Feb-12 |
|-----------|---------------|----------|----------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|----------|-----------|----------|-----------|
| MW-1 | 1588.38 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-14 (b) | 1588.4 | 1579.77 | 1580.57 | 1582.25 | 1580.83 | 1583.17 | 1580.36 | 1583.20 | 1580.83 | 1581.20 | 1580.29 | 1582.52 | 1581.83 | 1580.49 | 1581.05 |
| MW-2 | 1588.92 | 1581.35 | 1581.71 | nm | 1581.91 | 1583.36 | 1581.74 | 1583.46 | 1582.12 | 1582.15 | 1581.69 | nm | nm | 1581.72 | nm |
| MW-3 | 1591.43 | 1582.63 | 1583.06 | nm | 1583.30 | 1584.71 | 1582.91 | 1584.91 | 1583.26 | 1583.43 | 1582.79 | 1584.68 | 1583.98 | 1582.68 | 1583.14 |
| MW-4 | 1589.50 | 1581.48 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4R (c) | 1588.76 | --- | 1580.98 | 1582.75 | 1582.53 | 1583.31 | 1581.84 | 1583.37 | 1582.16 | 1582.25 | 1581.82 | 1582.92 | 1582.76 | 1581.88 | 1582.05 |
| MW-5 | 1587.75 | 1579.43 | 1580.02 | 1581.37 | 1580.43 | 1581.92 | 1579.78 | 1581.93 | 1580.35 | 1580.63 | 1579.76 | nm | nm | 1579.96 | nm |
| MW-6 | 1587.72 | 1577.94 | 1578.58 | nm | 1578.93 | 1580.16 | 1578.50 | 1580.29 | 1578.88 | 1579.14 | 1578.52 | 1579.82 | 1579.56 | 1578.36 | 1578.59 |
| MW-12 (d) | 1585.41 | 1577.52 | 1577.90 | 1578.51 | 1578.21 | 1579.00 | 1577.79 | 1579.11 | 1578.11 | 1578.25 | 1577.78 | nm | nm | 1577.80 | --- |
| MW-13 | 1582.45 | 1577.29 | 1576.89 | nm | 1576.54 | 1577.99 | 1576.77 | 1578.02 | 1577.05 | 1577.34 | 1576.85 | 1577.60 | 1577.57 | 1576.81 | 1577.00 |
| MW-15 | 1588.39 | 1578.99 | 1580.37 | nm | 1579.90 | 1581.41 | 1579.43 | 1581.49 | 1579.82 | 1580.17 | 1579.35 | nm | nm | 1579.35 | nm |

Table 2 - Groundwater Elevation Data

| Measured Depth to Groundwater in Feet | | | | | | | | | |
|---------------------------------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Well No. | 23-May-12 | 22-Aug-12 | 6-Nov-12 | 27-Aug-13 | 19-Nov-13 | 27-Feb-14 | 23-May-14 | 21-Aug-14 | 20-Nov-14 |
| MW-1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-14 (b) | 5.25 | 7.05 | 7.52 | 6.89 | 8.16 | 7.65 | 5.34 | 7.55 | 7.55 |
| MW-2 | 5.30 | 6.60 | 6.90 | 6.66 | 7.16 | nm | 5.72 | 6.85 | 7.59 |
| MW-3 | 6.52 | 7.88 | 8.56 | 7.93 | 8.68 | nm | 6.75 | 8.00 | 9.20 |
| MW-4 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4R (c) | 5.35 | 6.38 | 6.70 | 6.44 | 6.83 | 7.03 | 5.56 | 6.55 | 7.15 |
| MW-5 | 5.82 | 6.78 | 7.30 | 6.89 | 7.75 | nm | 5.96 | 7.30 | 8.25 |
| MW-6 | 7.28 | 8.46 | 8.78 | 8.15 | 9.12 | 9.49 | 7.62 | 8.90 | 9.69 |
| MW-12 (d) | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-13 | 4.31 | 5.12 | 5.49 | 5.10 | 5.53 | 5.82 | 6.26 | 5.38 | 6.05 |
| MW-15 | 6.74 | 8.18 | 8.82 | 8.17 | 8.93 | nm | 7.08 | 8.60 | 9.60 |

| Groundwater Elevation in Feet | | | | | | | | | | |
|-------------------------------|---------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Well No. | TOC Elev. (a) | 23-May-12 | 22-Aug-12 | 6-Nov-12 | 27-Aug-13 | 19-Nov-13 | 27-Feb-14 | 23-May-14 | 21-Aug-14 | 20-Nov-14 |
| MW-1 | 1588.38 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-14 (b) | 1588.4 | 1583.15 | 1581.35 | 1580.88 | 1581.51 | 1580.24 | 1580.75 | 1583.06 | 1580.85 | 1580.85 |
| MW-2 | 1588.92 | 1583.62 | 1582.32 | 1582.02 | 1582.26 | 1581.76 | nm | 1583.20 | 1582.07 | 1581.33 |
| MW-3 | 1591.43 | 1584.91 | 1583.55 | 1582.87 | 1583.50 | 1582.75 | nm | 1584.68 | 1583.43 | 1582.23 |
| MW-4 | 1589.50 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4R (c) | 1588.76 | 1583.41 | 1582.38 | 1582.06 | 1582.32 | 1581.93 | 1581.73 | 1583.20 | 1582.21 | 1581.61 |
| MW-5 | 1587.75 | 1581.93 | 1580.97 | 1580.45 | 1580.86 | 1580.00 | nm | 1581.79 | 1580.45 | 1579.50 |
| MW-6 | 1587.72 | 1580.44 | 1579.26 | 1578.94 | 1579.57 | 1578.60 | 1578.23 | 1580.10 | 1578.82 | 1578.03 |
| MW-12 (d) | 1585.41 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-13 | 1582.45 | 1578.14 | 1577.33 | 1576.96 | 1577.35 | 1576.92 | 1576.63 | 1576.19 | 1577.07 | 1576.40 |
| MW-15 | 1588.39 | 1581.65 | 1580.21 | 1579.57 | 1580.22 | 1579.46 | nm | 1581.31 | 1579.79 | 1578.79 |

Notes:

- (a) TOC Elevation = top of casing elevations are surveyed relative to Mean Sea Level by Sage Environmental.
- MW-12 and MW-13 were surveyed relative to existing well MW-1, and existing wells MW-5 and MW-6 were re-surveyed and corrected slightly.
- (b) Well MW-1 replaced as well MW-14 by Hart Crowser and resurveyed following remediation work in November 2000.
- (c) Well MW-4 replaced as well MW-4R by Hart Crowser in October 2005 and resurveyed following UST removal activities in April 2005.
- (d) Well MW-12 has been lost or destroyed during regrading of the Fairgrounds unpaved parking area post-November 2011 monitoring event.
- Well not installed or not available as of date indicated.
- nm Indicates well was not measured.

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | Concentration in µg/L | |
|--------------------------|--------------|-----------------------|---------|---------|---------------|---------------|-----------------------|------------|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead |
| MW-1 | 4/8/1996 | 160,000 | 2,500 | 19,000 | 3,000 | 21,000 | 65 | -- |
| | 1/5/1998 | -- | -- | -- | -- | -- | -- | -- |
| | 4/6/1998 | 100,000 | 180 | 260 | 940 | 9,800 | 180 | -- |
| | 7/6/1998 | 93,000 | 110 | 200 | 760 | 8,800 | 220 | -- |
| | 10/5/1998 | -- | -- | -- | -- | -- | -- | -- |
| | 12/29/1999 | 21,600 | 87.4 | 47.7 | 657 | 3,900 | -- | 21.3 |
| | 3/21/2000 | 19,800 | 94.1 | 59.6 | 479 | 2,710 | -- | 16.5 |
| | 6/14/2000 | 18,800 | 94.9 | 26.4 | 471 | 2,870 | -- | 8 |
| | 9/12/2000 | 21,400 | 111 | 35.1 | 496 | 2,930 | -- | 6.54 |
| MW-14 (Replaces MW-1) | 1/30/2001 | 7,450 | 19.3 | 14 | 424 | 673 | -- | -- |
| | 4/26/2001 | 26,100 | 37.2 | 29.7 | 580 | 2,680 | -- | -- |
| | 7/29/2001 | 14,200 | 10.3 | 14.2 | 318 | 1,480 | -- | -- |
| | 10/27/2001 | 9,970 | 46.4 | 4.55 | 187 | 707 | -- | -- |
| | 11/15/2002 | 8,380 | 11 | 2.5 U | 122 | 357 | -- | -- |
| | 5/9/2003 | 4,520 | 2.62 | 0.5 U | 0.775 | 172 | 5.33 | -- |
| | 9/30/2003 | 6,230 J | 11.7 J | 1.61 J | 151 J | 369 J | 4.56 | -- |
| | 12/11/2003 | 5,890 | 12.6 | 5.0 U | 5.0 U | 271 | 12.4 | -- |
| | 3/31/2004 | 6,270 | 12.6 | 5 U | 80.4 | 168.4 | 4.85 | -- |
| | 6/2/2004 | 3,790 J | 2.36 J | 0.5 U | 26.9 J | 88.1 J | 4.12 | -- |
| | 9/30/2004 | 5,700 J | 5.52 | 2.5 U | 82.1 | 256 | 4.29 | -- |
| | 12/14/2004 | 5,500 J | 4.36 | 0.643 | 66.1 | 178 | -- | -- |
| | 4/4/2005 | 8,100 J | 6.89 | 0.746 | 75.8 | 221 | -- | -- |
| | 10/6/2005 | 4,070 J | 7.85 | 0.5 U | 43.1 | 62.8 | 3.7 | -- |
| | 6/28/2006 | 533 | 0.545 | 0.5 U | 0.593 | 5.34 | 3.41 | -- |
| | 11/13/2006 | 496 | 0.933 | 0.5 U | 6.89 | 5.99 | 3.03 | -- |
| | 5/25/2007 | 54 | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/7/2007 | 3,050 | 7.6 | 2.58 | 28.1 | 20 | 2.31 | -- |
| | 6/4/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 10/21/2008 | 2,040 | 4.76 | 0.5 U | 16.6 | 15.1 | 1.85 | -- |
| 10/14/2009 | 2,030 | 12.2 U | 0.844 U | 18.9 | 33.8 | 2 U | -- | |
| 11/15/2010 | 2,500 | 0.25 U | 1.0 UJ | 7.6 | 10.7 | 1 | -- | |
| 5/2/2011 | 3,100 | 1.0 U | 1.7 | 1.4 | 1.3 | -- | -- | |
| 7/27/2011 | 3,700 | 1.0 U | 1.2 | 3.0 | 2.8 | -- | -- | |
| 11/2/2011 | 1,200 | 0.25 U | 0.3 U | 3.4 | 1.8 | 2.0 | -- | |
| 2/13/2012 | 2,200 | 0.25 U | 0.25 U | 1.8 | 8.6 | -- | -- | |
| 5/23/2012 | 250 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U | -- | -- | |
| 8/22/2012 | 870 | 0.25 U | 0.26 | 0.27 | 0.81 | -- | -- | |
| 11/6/2012 | 1,200 | 0.25 U | 0.40 | 3.60 | 2.81 | 10.9 | -- | |
| 8/27/2013 | 580 J | 0.25 UJ | 0.25 UJ | 0.26 J | 0.50 UJ | -- | -- | |

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | Concentration in µg/L | |
|-------------|--------------|-----------------------|---------|---------|---------------|----------------|-----------------------|------------|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead |
| MW-14 Cont. | 11/19/2013 | 1,100 | 0.25 U | 0.49 | 1.30 | 0.50 U | 4.5 | -- |
| | 2/27/2014 | 1,400 J | 0.25 U | 0.25 U | 0.25 U | 0.54 | -- | -- |
| | 5/23/2014 | 1,100 J | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.50 UJ | -- | -- |
| | 8/21/2014 | 1,100 J | 0.25 UJ | 0.25 UJ | 1.10 J | 0.50 UJ | -- | -- |
| | 11/20/2014 | 340 | 0.25 U | 0.25 U | 0.75 | 0.57 | 1.1 | -- |
| MW-2 | 4/8/1996 | 50 U | 1 U | 1 U | 1 U | 1 U | 5 U | -- |
| | 1/5/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 15 | 5 U |
| | 4/6/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 5 U | -- |
| | 7/6/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 21 | -- |
| | 10/5/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 34 | -- |
| | 12/29/1999 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 3/21/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 6/14/2000 | 50 U | 0.5 U | 0.5 U | 0.55 | 3.41 | -- | 1 U |
| | 9/12/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 1/30/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 4/26/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 7/29/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 10/27/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/15/2002 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 5/9/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2.61 | -- |
| | 12/11/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 3/31/2004 | 13,000 | 10 U | 119 | 180 | 2,541 J | 1 U | -- |
| | 6/2/2004 | 1,480 | 2.10 | 0.5 U | 0.5 U | 11.0 | 1 U | -- |
| | 9/30/2004 | 1,290 J | 2.40 | 0.5 U | 0.859 | 5.11 | 1 U | -- |
| | 12/14/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 4/4/2005 | 101 | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 10/6/2005 | 160 | 0.741 | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 6/28/2006 | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 5/25/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/7/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| 6/4/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 10/21/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 20.8 | -- | |
| 10/14/2009 | 80 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2 U | -- | |
| 11/15/2010 | 100 U | 0.25 U | 0.5 U | 0.25 U | 0.75 U | 1 U | -- | |
| 11/2/2011 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.3 | -- | |
| 11/6/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 | -- | |

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | Concentration in µg/L | |
|------------|--------------|-----------------------|---------|---------|---------------|---------------|-----------------------|------------|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead |
| MW-2 Cont. | 11/19/2013 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.1 | -- |
| | 11/20/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.1 U | -- |
| MW-3 | 4/8/1996 | 50 U | 1 U | 1 U | 1 U | 1 U | 5 U | -- |
| | 1/5/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 5 U | -- |
| | 4/6/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 5 U | -- |
| | 7/6/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 5 U | -- |
| | 10/5/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 3.8 | -- |
| | 12/29/1999 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 3/21/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 6/14/2000 | 50 U | 0.5 U | 0.85 | 0.5 U | 1 U | -- | 1 U |
| | 9/12/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 1/30/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 4/26/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 7/29/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 10/27/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/15/2002 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 5/9/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 12/11/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 3/31/2004 | 50 U | 0.2 U | 0.2 U | 0.2 U | 0.5 U | 1 U | -- |
| | 6/2/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| 12/14/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- | |
| 4/4/2005 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- | |
| 10/6/2005 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 6/28/2006 | -- | -- | -- | -- | -- | -- | -- | |
| 11/13/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 5/25/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- | |
| 11/8/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 6/4/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 10/21/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 10/14/2009 | 80 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2 U | -- | |
| 11/15/2010 | 100 U | 0.25 U | 0.5 U | 0.25 U | 0.75 U | 1 U | -- | |
| 5/2/2011 | 250 U | 1.0 U | 1.0 U | 1.0 U | 2.0 U | -- | -- | |
| 7/27/2011 | 250 U | 1.0 U | 1.0 U | 1.0 U | 2.0 U | -- | -- | |
| 11/2/2011 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 U | -- | |
| 2/13/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | -- | -- | |
| 11/6/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 U | -- | |

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | | Concentration in µg/L | |
|--------------------------|--------------|-----------------------|-------------|---------|---------------|---------------|------------|-----------------------|--|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead | |
| MW-3 Cont. | 11/19/2013 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.1 U | -- | |
| | 11/20/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.2 | -- | |
| MW-4 | 1/5/1998 | 200 | 1 U | 27 | 1 | 3 | 10 | 5 U | |
| | 4/6/1998 | 400 | 3 | 14 | 1 | 6 | 5 U | -- | |
| | 7/6/1998 | 50 U | 1 U | 3 | 1 U | 1 U | 5 U | -- | |
| | 10/5/1998 | 150 | 1 U | 7 | 1 U | 1 U | 2 | -- | |
| | 12/29/1999 | 301 | 51.4 | 32.5 | 0.5 U | 6.08 | -- | 1 U | |
| | 3/21/2000 | 414 | 44.8 | 28.2 | 1.92 | 3.2 U | -- | 1 U | |
| | 6/14/2000 | 439 | 69.7 | 4.91 | 2.01 | 6.8 | -- | 1 U | |
| | 9/12/2000 | 101 | 4.49 | 0.5 U | 0.5 U | 0.5 U | -- | 1 U | |
| | 1/31/2001 | 182 | 2.22 | 1.17 U | 0.5 U | 1.33 U | -- | -- | |
| | 4/26/2001 | 673 | 8.79 | 4.73 | 4.28 | 28.6 | -- | -- | |
| 7/29/2001 | 402 | 24.3 | 16.3 | 2.84 | 14.8 | -- | -- | | |
| 10/27/2001 | 200 | 24.9 | 2.62 | 1.15 | 6.57 | -- | -- | | |
| 11/15/2002 | 75.6 | 0.858 | 0.5 U | 0.5 U | 1 U | -- | -- | | |
| 5/9/2003 | 61.8 | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | | |
| 9/30/2003 | 161 | 0.730 | 0.5 U | 2.59 | 2.59 | 1 U | -- | | |
| 12/11/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 3.22 | -- | | |
| 3/31/2004 | 267 | 29.0 | 1.43 | 1 U | 2.94 | 1 U | -- | | |
| 6/2/2004 | 140 | 46.4 | 4.2 | 0.5 U | 1 U | 1 U | -- | | |
| 9/30/2004 | 88.7 J | 0.5 U | 0.5 U | 1.83 | 1 U | 1 U | -- | | |
| 12/14/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- | | |
| MW-4R (Replaces MW-4) | 4/4/2005 | 112 | 1.93 | 0.5 U | 0.5 U | 1 U | -- | -- | |
| | 10/6/2005 | 744 | 0.929 | 0.5 U | 9.31 | 3.57 | 19 | -- | |
| | 6/28/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| | 11/13/2006 | 107 | 0.5 U | 0.5 U | 0.5 U | 1 U | 5.82 | -- | |
| | 5/25/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- | |
| | 11/7/2007 | 75.2 | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.325 | -- | |
| | 6/4/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| | 10/21/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 6.98 | -- | |
| | 10/14/2009 | 80 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2 U | -- | |
| | 11/15/2010 | 100 U | 0.25 U | 0.5 U | 0.25 U | 0.75 U | 1 U | -- | |
| | 5/2/2011 | 250 U | 1.0 U | 1.6 | 1.0 U | 2.0 U | -- | -- | |
| | 7/27/2011 | 980 | 1.0 U | 250 | 1.0 U | 2.0 U | -- | -- | |
| | 11/2/2011 | 100 U | 0.25 U | 14 | 0.25 U | 0.75 U | 0.1 | -- | |
| | 2/13/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | -- | -- | |
| | 5/23/2012 | 250 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U | -- | -- | |
| | 8/22/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | -- | -- | |

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | Concentration in µg/L | |
|-------------|--------------|-----------------------|-------------|---------|---------------|---------------|-----------------------|------------|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead |
| MW-4R Cont. | 11/6/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 U | -- |
| | 8/27/2013 | 100 UJ | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.50 UJ | -- | -- |
| | 11/19/2013 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.50 U | 0.1 | -- |
| | 2/27/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.50 U | -- | -- |
| | 5/23/2014 | 100 UJ | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.50 UJ | -- | -- |
| | 8/21/2014 | 100 UJ | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.50 UJ | -- | -- |
| | 11/20/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.50 U | 0.1 | -- |
| MW-5 | 1/5/1998 | 6200 | 1 | 57 | 3 | 160 | 5 U | -- |
| | 4/6/1998 | 2800 | 2 | 30 | 2 | 27 | 5 U | -- |
| | 7/6/1998 | 50 U | 1 U | 1 U | 1 U | 1 U | 10 | -- |
| | 10/5/1998 | 4700 | 2 | 39 | 16 | 94 | 7.4 | -- |
| | 12/29/1999 | 779 | 2.96 | 0.69 | 9.03 | 27.4 | -- | 1 U |
| | 3/21/2000 | 519 | 0.5 U | 13.9 | 4.95 | 3.6 | -- | 1 U |
| | 6/14/2000 | 708 | 3.45 U | 1.17 U | 1.08 | 1 U | -- | 1 U |
| | 9/12/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 4/26/2001 | 831 | 7.35 | 0.516 | 15.3 | 1 U | -- | -- |
| | 7/29/2001 | 53.8 | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 10/27/2001 | 552 | 3.29 | 0.5 U | 1.28 | 1.58 | -- | -- |
| | 11/15/2002 | 108 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | -- | -- |
| | 5/9/2003 | 78.7 | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2003 | 229 | 0.5 U | 0.5 U | 0.5 U | 1.61 | 1 U | -- |
| | 12/11/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 3/31/2004 | 53 | 0.2 U | 0.2 U | 0.2 U | 0.5 U | 1 U | -- |
| | 6/2/2004 | 92.8 | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 12/14/2004 | 308 | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 4/4/2005 | 620 | 1.45 | 0.5 U | 0.5 U | 1.07 | -- | -- |
| | 10/6/2005 | 114 | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 6/28/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 11/13/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 5/25/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/7/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 6/4/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 10/22/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 10/15/2009 | 80 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2 U | -- |
| 11/15/2010 | 170 | 0.25 U | 0.5 U | 0.25 U | 0.75 U | 1 U | -- | |
| 11/2/2011 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 2.1 | -- | |
| 11/6/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 | -- | |
| 11/19/2013 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.2 | -- | |
| 11/20/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.2 | -- | |

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | Concentration in µg/L | |
|-----------------------|--------------|-----------------------|---------|---------|-------------------|---------------|-----------------------|------------|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead |
| MW-6 | 1/5/1998 | 2,200 | 53 | 17 | 9 | 93 | 5 U | -- |
| | 4/6/1998 | 4,200 | 51 | 16 | 25 | 110 | 5 U | -- |
| | 7/6/1998 | 6,900 | 11 | 19 | 1 | 510 | 11 | -- |
| | 10/5/1998 | 5,800 | 43 | 22 | 48 | 240 | 12 | -- |
| | 12/29/1999 | 2,090 | 11.5 | 2 | 35.1 | 65.1 | -- | 1 U |
| | 3/21/2000 | 1,580 | 0.75 U | 14.3 | 28.7 | 61 | -- | 1 U |
| | 6/14/2000 | 2,170 | 9.78 | 1.03 U | 33.1 | 101 | -- | 1 U |
| | 9/12/2000 | 1,630 | 12.8 | 1.2 U | 27.9 | 75.7 | -- | 1 U |
| | 4/26/2001 | 1,320 | 11.3 | 0.906 | 1.41 | 3.37 | -- | -- |
| 7/29/2001 | 5,050 | 8.71 | 4.99 | 189 | 536 | -- | -- | |
| 10/27/2001 | 1,910 | 15.3 | 0.786 | 1.67 | 5.49 | -- | -- | |
| 11/15/2002 | 1,270 | 9.01 | 0.5 U | 0.594 | 1.85 | -- | -- | |
| 5/9/2003 | 1,710 | 1.79 | 0.5 U | 1.29 | 21.2 | 1.29 | -- | |
| 9/30/2003 | 1,610 | 16.7 | 2.50 U | 2.91 | 7.96 | 1 U | -- | |
| 12/11/2003 | 624 | 5.67 | 0.50 U | 0.737 J | 2.19 J | 1 U | -- | |
| 3/31/2004 | 1,160 | 0.520 | 0.2 U | 0.350 | 0.5 U | 1 U | -- | |
| 6/2/2004 | 2,300 J | 4.78 J | 0.5 U | 54.0 J | 75.5 J | 1.29 | -- | |
| 9/30/2004 | 1,150 J | 8.34 J | 0.5 J | 0.553 J | 2.92 J | 1 U | -- | |
| 12/14/2004 | 672 | 3.57 | 0.5 U | 0.5 U | 1.42 | -- | -- | |
| 4/4/2005 ^b | 1,010 | 5.91 | 0.5 U | 0.5 U | 1.86 ^c | -- | -- | |
| 10/6/2005 | 1,380 J | 8.10 | 0.5 U | 0.632 | 1.94 | 1 U | -- | |
| 6/28/2006 | -- | -- | -- | -- | -- | -- | -- | |
| 11/13/2006 | 826 | 3.3 | 0.5 U | 0.5 U | 1.89 | 1 U | -- | |
| 5/25/2007 | 1,460 | 0.5 U | 0.5 U | 25.6 | 1.22 | -- | -- | |
| 11/7/2007 | 729 | 3.53 | 0.5 U | 0.5 U | 1.69 | 1 U | -- | |
| 6/4/2008 | 1,550 | 1.93 | 0.5 U | 30.8 | 2.78 | 1 U | -- | |
| 10/22/2008 | 855 | 3.1 | 0.5 U | 0.933 | 3.37 | 1 U | -- | |
| 10/14/2009 | 501 | 7.59 U | 0.5 U | 1.18 U | 1 U | 2 U | -- | |
| 11/15/2010 | 450 | 0.25 U | 0.49 | 0.25 U | 0.75 U | 1 U | -- | |
| 5/2/2011 | 490 | 1.0 U | 1.0 U | 1.0 U | 2.0 U | -- | -- | |
| 7/27/2011 | 610 | 1.0 U | 1.0 U | 1.0 U | 2.0 U | -- | -- | |
| 11/2/2011 | 590 | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 4 | -- | |
| 2/13/2012 | 1,600 | 0.25 U | 0.25 U | 0.25 U | 1.5 | -- | -- | |
| 5/23/2012 | 930 | 1.00 U | 1.00 U | 6.50 | 2.00 U | -- | -- | |
| 8/22/2012 | 500 | 0.25 U | 0.25 U | 0.31 | 0.75 U | -- | -- | |
| 11/6/2012 | 410 | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.4 | -- | |
| 8/27/2013 | 300 J | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.5 UJ | -- | -- | |
| 11/20/2013 | 310 | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.2 | -- | |

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | Concentration in µg/L | |
|------------|--------------|-----------------------|---------|---------|---------------|---------------|-----------------------|------------|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead |
| MW-6 Cont. | 2/27/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | -- | -- |
| | 5/23/2014 | 920 J | 0.25 UJ | 0.25 UJ | 6.9 J | 1.13 J | -- | -- |
| | 8/21/2014 | 370 J | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.5 UJ | -- | -- |
| | 11/21/2014 | 110 | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.3 | -- |
| MW-12 | 12/29/1999 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 3/21/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 6/14/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 9/12/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 4/26/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 7/29/2001 | 50 U | 0.5 U | 0.5 U | 1.74 | 4.83 | -- | -- |
| | 10/27/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/15/2002 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 5/9/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 12/11/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1.47 | -- |
| | 3/31/2004 | 50 U | 0.2 U | 0.2 U | 0.2 U | 0.5 U | 1 U | -- |
| | 6/2/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2004 | 50 UJ | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 12/14/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 4/4/2005 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 10/12/2005 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 6/28/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2.98 | -- |
| | 11/13/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 5/25/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| 11/8/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 6/4/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 10/22/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |
| 10/14/2009 | 80 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2 U | -- | |
| 11/15/2010 | 100 U | 0.25 U | 0.5 U | 0.25 U | 0.75 U | 1 U | -- | |
| 11/2/2011 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 U | -- | |
| MW-13 | 12/29/99 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 3/21/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 6/14/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 9/12/2000 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | 1 U |
| | 4/26/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 7/29/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 10/27/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 9/30/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | Concentration in µg/L | |
|-------------|--------------|-----------------------|---------|---------|---------------|---------------|-----------------------|------------|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead |
| MW-13 Cont. | 12/11/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1.56 | -- |
| | 3/31/2004 | 50 U | 0.2 U | 0.2 U | 0.2 U | 0.5 U | 1 U | -- |
| | 6/2/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2004 | 50 UJ | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 12/14/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 4/4/2005 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 10/6/2005 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 6/28/2006 | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 5/25/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/8/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 6/4/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 10/22/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 10/15/2009 | 80 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2 U | -- |
| | 11/15/2010 | 100 U | 0.25 U | 0.5 U | 0.25 U | 0.75 U | 1 U | -- |
| | 11/2/2011 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.2 | -- |
| | 5/23/2012 | 250 U | 1.0 U | 1.0 U | 1.0 U | 2.0 U | -- | -- |
| 8/22/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | -- | -- | |
| 11/6/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 U | -- | |
| 8/27/2013 | 100 UJ | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.5 UJ | -- | -- | |
| 11/20/2013 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.1 U | -- | |
| 2/27/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | -- | -- | |
| 5/23/2014 | 100 UJ | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.5 UJ | -- | -- | |
| 8/21/2014 | 100 UJ | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.5 UJ | -- | -- | |
| 11/21/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.1 U | -- | |
| MW-15 | 1/30/2001 | 161 | 1.53 | 0.5 U | 0.5 U | 1.18 U | -- | -- |
| | 4/26/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 7/29/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 10/27/2001 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/15/2002 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 5/9/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 12/11/2003 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 3/31/2004 | 50 U | 0.2 U | 0.2 U | 0.2 U | 0.5 U | 1 U | -- |
| | 6/2/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 9/30/2004 | 50 UJ | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 12/14/2004 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 4/4/2005 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| 10/6/2005 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- | |

Table 3 - Summary of Groundwater Chemistry Data - TPH-G, BTEX, and Lead

| Well ID | Date Sampled | Concentration in µg/L | | | | | Concentration in µg/L | |
|---|--------------|------------------------|---------|---------|---------------|---------------|-----------------------|------------|
| | | TPH-Gasoline | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Total Lead | Diss. Lead |
| MW-15 Cont. | 6/28/2006 | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2006 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 5/25/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | -- | -- |
| | 11/7/2007 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 6/5/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 10/22/2008 | 50 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | -- |
| | 10/14/2009 | 80 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 2 U | -- |
| | 11/15/2010 | 100 U | 0.25 U | 0.5 U | 0.25 U | 0.75 U | 1 U | -- |
| | 11/2/2011 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 U | -- |
| | 11/6/2012 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.75 U | 0.1 U | -- |
| | 11/20/2013 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.1 U | -- |
| 11/21/2014 | 100 U | 0.25 U | 0.25 U | 0.25 U | 0.5 U | 0.1 U | -- | |
| MTCA Method A Groundwater Cleanup Level | | 800/1,000 ^a | 5 | 1000 | 700 | 1000 | 15 | 15 |

Notes:

Gasoline-range TPH analyzed by EPA Method 8015 prior to 1999. After that, analyzed by NWTPH-G; BTEX Analyzed by EPA Method 8021B BTEX analyzed by EPA Method 8260B in March 2004.

Total and Dissolved Lead analyzed by EPA Method 6010 or 6020.

-- Not analyzed.

U = Not detected at specified reporting limit.

J = Estimated concentration.

Bolded concentrations exceed MTCA Method A cleanup levels.

Access to well MW-13 obstructed in November 2002 and May 2003.

Access to well MW-5 obstructed in September 2004.

Data from 1996 and 1998 collected by Sage Environmental.

Notes Continued:

Well MW-1 was removed during the October 2000 excavation. Wells MW-14 and MW-15 were installed in January 2001 after the excavation.

Well MW-4 was replaced as well MW-4R by Hart Crowser in October 2005, following removal of the well during UST removal activities in April 2005.

First dashed line indicates soil was excavated in November 2000.

Second dashed line indicates bioremediation amendments were injected in January 2011.

a) Cleanup level for TPH-G with/without detectable benzene

b) Values shown are the average of the results for the sample and its field duplicate.

c) The value is the result for the field duplicate. The result for the sample was ND (not detected at the detection limit of 1.0 µg/L).

Access to well MW-12 was obstructed in May and August 2012 by a large soil stockpile.

Well MW-12 has been lost or destroyed during regrading of the Fairgrounds unpaved parking area post-November 2011 monitoring event.

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-------------|--------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-1/MW-14 | 3/21/2000 | 0.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/14/2000 | 1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/12/2000 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/30/2001 | 2.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/26/2001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/29/2001 | 2.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/2001 | 0.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/2003 | 1.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/30/2003 | 0.29 | -- | -- | -- | -- | 0.349 | 0.400 U | -- | -- | 0.200 U | 1.6 |
| | 12/11/2003 | 3.20 | -- | -- | -- | -- | 0.200 U | 1.14 | -- | -- | 0.200 U | 4 |
| | 3/31/2004 | 0.12 | -- | -- | -- | -- | 0.200 U | 1.08 | -- | -- | 0.200 U | 5.2 |
| | 6/2/2004 | 0.02 | -- | -- | -- | -- | 0.200 U | 4.24 | -- | -- | 0.200 U | 7.2 |
| | 9/30/2004 | 0.11 | -- | -- | -- | -- | 0.200 U | 0.635 | -- | -- | 0.200 U | 5.6 |
| | 12/14/2004 | 0.07 | -- | -- | -- | -- | 0.200 U | 0.400 U | -- | -- | 0.200 U | 6.3 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.200 U | 0.464 | -- | -- | 0.200 U | 4.82 J |
| | 10/6/2005 | -- | -- | -- | -- | -- | 0.200 U | 0.400 U | -- | -- | 0.200 U | 9.74 |
| | 6/28/2006 | 0.60 | -- | -- | -- | -- | 0.556 | 13.4 | -- | -- | 0.400 U | 0.25 U |
| | 11/13/2006 | 0.39 | 3.5-3.75 | -- | -- | -- | 0.200 U | 1.4 | -- | -- | 0.200 U | 2.16 |
| | 5/25/2007 | 3.47 | ND | -- | -- | -- | 3.120 | 12.200 | -- | -- | 0.200 U | 0.25 U |
| | 11/7/2007 | 4.84 | 5.2 | -- | -- | -- | 0.010 U | 0.900 | -- | -- | 0.010 U | -- |
| | 6/4/2008 | 6.01 | ND | -- | -- | -- | 1.870 | 9.970 | -- | -- | 0.200 U | -- |
| | 10/21/2008 | 5.09 | 2.9 | -- | -- | -- | 0.200 U | 0.680 | -- | -- | 0.200 U | -- |
| | 10/14/2009 | 0.00 | 3.6 | -- | -- | -- | 0.90 UJ | 1.2 U | -- | -- | 1.6 J | -- |
| | 11/15/2010 | 0.00 | 5 | -- | -- | -- | 0.1 U | 0.4 | -- | -- | -- | -- |
| | 5/2/2011 | 0.00 | 0.8 | 4 | 100 | 6 | 63.2 | 541 | 35.1 | 0.2 | -- | -- |
| | 7/27/2011 | 0.16 | 1.9 | 0 | 10 | 6 | 0.1 U | 550 | 40.2 | 1 U | -- | -- |
| | 11/2/2011 | 0.86 | 2 | ND | ND | 0.75 | 0.1 U | 63.6 | 17.2 | 0.8 | -- | -- |
| | 2/13/2012 | 2.41 | 2 | 5 | 160 | 2 | 99 | 671 | 208 | 0.2 | -- | -- |
| | 5/23/2012 | 3.06 | ND | -- | -- | -- | 120.00 | 211.00 | 1.00 U | 60.30 | -- | -- |
| | 8/22/2012 | 7.31 | ND | -- | -- | -- | 11.60 | 380.00 | 44.40 | 0.20 | -- | -- |
| | 11/6/2012 | 1.12 | 1.10 | -- | -- | -- | 1.60 | 137.00 | 24.50 | 0.10 U | -- | -- |
| | 8/27/2013 | 0.05 | 1.20 | -- | -- | -- | 0.90 J | 73.90 | -- | -- | -- | -- |
| | 11/19/2013 | 0.05 | ND | -- | -- | -- | 0.10 U | 39.10 | -- | -- | -- | -- |
| | 2/27/2014 | 0.09 | -- | -- | -- | -- | 17.40 | 39.00 | -- | -- | -- | -- |

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-------------|--------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-14 Cont. | 5/23/2014 | 0.24 | 0.40 | -- | -- | -- | 10.40 J | 26.20 | -- | -- | -- | -- |
| | 8/21/2014 | 0.99 | 6.00 | -- | -- | -- | 0.20 J | 18.70 | -- | -- | -- | -- |
| | 11/20/2014 | 0.07 | 3.00 | -- | -- | -- | 4.60 J | 12.70 | -- | -- | -- | -- |
| MW-2 | 3/21/2000 | 2.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/14/2000 | 2.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/12/2000 | 0.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/30/2001 | 1.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/26/2001 | 4.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/29/2001 | 3.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/2001 | 2.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/2002 | 1.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/2003 | 2.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/30/2003 | 1.51 | -- | -- | -- | -- | 0.489 | 3.38 | -- | -- | 0.200 U | 1.2 |
| | 12/11/2003 | 3.90 | -- | -- | -- | -- | 1.08 | 3.79 | -- | -- | 0.200 U | 0.0 |
| | 3/31/2004 | 0.82 | -- | -- | -- | -- | 0.912 | 4.60 | -- | -- | 0.200 U | 0.0 |
| | 6/2/2004 | 1.63 | -- | -- | -- | -- | 0.467 | 3.23 | -- | -- | 0.200 U | 0.0 |
| | 9/30/2004 | 0.52 | -- | -- | -- | -- | 0.443 | 2.93 | -- | -- | 0.200 U | 0.2 |
| | 12/14/2004 | 6.05 | -- | -- | -- | -- | 0.922 | 3.05 | -- | -- | 0.200 U | 0.0 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.719 | 3.52 | -- | -- | 0.200 U | 0.25 R |
| | 10/6/2005 | -- | -- | -- | -- | -- | 0.219 | 3.75 | -- | -- | 0.200 U | 0.25 U |
| | 6/28/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2006 | 0.64 | ND | -- | -- | -- | 0.410 | 5.26 | -- | -- | 0.200 U | 0.25 U |
| | 5/25/2007 | 7.11 | ND | -- | -- | -- | 2.740 | 8.57 | -- | -- | 0.200 U | 0.25 U |
| | 11/7/2007 | 4.95 | ND | -- | -- | -- | 0.275 | 4.32 | -- | -- | 0.010 U | -- |
| | 6/4/2008 | 4.60 | ND | -- | -- | -- | 1.440 | 6.14 | -- | -- | 0.200 U | -- |
| 10/21/2008 | -- | ND | -- | -- | -- | 0.200 U | 3.21 | -- | -- | 0.200 U | -- | |
| 10/14/2009 | 0.00 | ND | -- | -- | -- | 0.90 U | 6.5 | -- | -- | 1.3 J | -- | |
| 11/15/2010 | 0.33 | ND | -- | -- | -- | 0.3 | 3.9 | -- | -- | -- | -- | |
| 11/2/2011 | 1.08 | ND | -- | -- | -- | 0.6 | 9.1 | 5.8 | 0.1 U | -- | -- | |
| 11/6/2012 | 1.45 | ND | -- | -- | -- | 1.3 | 6.8 | 3.4 | 0.1 U | -- | -- | |
| 11/19/2013 | 0.30 | ND | -- | -- | -- | 0.2 | 4.2 | -- | -- | -- | -- | |
| 11/20/2014 | 0.27 | ND | -- | -- | -- | 0.2 | 4.2 | -- | -- | -- | -- | |
| MW-3 | 3/21/2000 | 2.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/14/2000 | 2.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/12/2000 | 1.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-------------|--------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-3 Cont. | 1/30/2001 | 2.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/26/2001 | 1.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/29/2001 | 4.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/2001 | 2.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/2002 | 2.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/2003 | 2.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/30/2003 | 0.44 | -- | -- | -- | -- | 0.228 | 4.39 | -- | -- | 0.200 U | 0.0 |
| | 12/11/2003 | 3.20 | -- | -- | -- | -- | 0.200 U | 4.79 | -- | -- | 0.200 U | 0.0 |
| | 3/31/2004 | 1.59 | -- | -- | -- | -- | 0.812 | 5.53 | -- | -- | 0.200 U | 0.0 |
| | 6/2/2004 | 0.89 | -- | -- | -- | -- | 0.816 | 5.61 | -- | -- | 0.200 U | 0.0 |
| | 9/30/2004 | 0.54 | -- | -- | -- | -- | 0.253 | 4.43 | -- | -- | 0.200 U | 0.0 |
| | 12/14/2004 | 2.10 | -- | -- | -- | -- | 0.206 | 4.69 | -- | -- | 0.200 U | 0.0 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.358 | 4.23 | -- | -- | 0.200 U | 0.25 R |
| | 10/6/2005 | -- | -- | -- | -- | -- | 0.200 U | 3.67 | -- | -- | 0.200 U | 0.25 U |
| | 6/28/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2006 | 1.19 | ND | -- | -- | -- | 0.370 | 6.1 | -- | -- | 0.200 U | 0.25 U |
| | 5/25/2007 | 8.13 | ND | -- | -- | -- | 1.520 | 6.43 | -- | -- | 0.200 U | 0.25 U |
| | 11/8/2007 | 5.15 | ND | -- | -- | -- | 0.168 | 4.13 | -- | -- | 0.010 U | -- |
| | 6/4/2008 | 5.51 | ND | -- | -- | -- | 0.920 | 4.59 | -- | -- | 0.200 U | -- |
| | 10/21/2008 | 8.29 | ND | -- | -- | -- | 0.250 | 3.84 | -- | -- | 0.200 U | -- |
| | 10/14/2009 | 0.81 | ND | -- | -- | -- | 0.90 UJ | 3.2 | -- | -- | 1.3 J | -- |
| 11/15/2010 | 1.86 | ND | -- | -- | -- | 0.2 | 4.1 | -- | -- | -- | -- | |
| 5/2/2011 | 0.00 | ND | 2 | 10 | 1 | 3.4 | 12.4 | 36 | 0.1 U | -- | -- | |
| 7/27/2011 | 0.06 | 0.6 | 2 | 10 | 1.5 | 1.8 | 21.6 | 12.6 | 0.1 U | -- | -- | |
| 11/2/2011 | 0.90 | 1.5 | ND | ND | 1 | 0.1 U | 24 | 9.5 | 0.1 | -- | -- | |
| 2/13/2012 | 2.14 | ND | 0.25 | 10 | 0.5 | 6.8 | 8.9 | 12.3 | 0.1 U | -- | -- | |
| 11/6/2012 | 2.18 | ND | -- | -- | -- | 0.7 | 4.9 | 5.1 | 0.1 U | -- | -- | |
| 11/19/2013 | 0.25 | ND | -- | -- | -- | 0.2 | 4.6 | -- | -- | -- | -- | |
| 11/20/2014 | 0.77 | -- | -- | -- | -- | 0.3 | 4.2 | -- | -- | -- | -- | |
| MW-4 | 3/21/2000 | 0.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/14/2000 | 1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/12/2000 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/30/2001 | 2.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/26/2001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/29/2001 | 2.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-------------|--------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-4 Cont. | 10/27/2001 | 0.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/2003 | 1.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/30/2003 | 0.12 | -- | -- | -- | -- | 0.200 U | 4.57 | -- | -- | 0.200 U | 1.4 |
| | 12/11/2003 | 1.40 | -- | -- | -- | -- | 1.05 | 15.3 | -- | -- | 0.200 U | 0.5 |
| | 3/31/2004 | 0.11 | -- | -- | -- | -- | 0.200 U | 7.41 | -- | -- | 0.200 U | 5.4 |
| | 6/2/2004 | 0.03 | -- | -- | -- | -- | 0.200 U | 8.32 | -- | -- | 0.200 U | 5.2 |
| | 9/30/2004 | 0.06 | -- | -- | -- | -- | 0.200 U | 4.91 | -- | -- | 0.200 U | 3.8 |
| | 12/14/2004 | 0.12 | -- | -- | -- | -- | 0.200 U | 5.13 | -- | -- | 0.200 U | 2.0 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.200 U | 5.79 | -- | -- | 0.200 U | 3.47 J |
| MW-4R | 10/6/2005 | -- | -- | -- | -- | -- | 0.200 U | 8.07 | -- | -- | 0.200 U | 1.39 |
| | 6/28/2006 | 0.60 | -- | -- | -- | -- | 0.200 U | 16 | -- | -- | 0.400 U | 0.25 U |
| | 11/13/2006 | 0.24 | 2.9-3.0 | -- | -- | -- | 0.200 U | 16.2 | -- | -- | 0.200 U | 0.25 U |
| | 5/25/2007 | 2.63 | ND | -- | -- | -- | 2.290 | 17.6 | -- | -- | 0.200 U | 0.25 U |
| | 11/7/2007 | 4.78 | 3.7 | -- | -- | -- | 0.031 | 10.3 | -- | -- | 0.010 U | -- |
| | 6/4/2008 | 3.87 | ND | -- | -- | -- | 2.030 | 14.1 | -- | -- | 0.200 U | -- |
| | 10/21/2008 | 8.98 | 1.4 | -- | -- | -- | 0.200 U | 6.52 | -- | -- | 0.200 U | -- |
| | 10/14/2009 | 4.83 | ND | -- | -- | -- | 0.90 UJ | 5.9 | -- | -- | 1.7 J | -- |
| | 11/15/2010 | 0.00 | 2.2 | -- | -- | -- | 0.1 U | 7.3 | -- | -- | -- | -- |
| | 5/2/2011 | 0.00 | 2.4 | 5 | 20 | 2 | 18.7 | 78.9 | 30.8 | 8.6 | -- | -- |
| 7/27/2011 | 0.14 | 2 | ND | 10 | 4 | 4.2 | 12.4 | 24.7 | 0.9 | -- | -- | |
| 11/2/2011 | 0.76 | 1.9 | ND | ND | 5 | 0.2 | 13.1 | 14.3 | 1 | -- | -- | |
| 2/13/2012 | 2.95 | 1.3 | 3 | 120 | 2 | 74.9 | 174 | 20.2 | 0.5 | -- | -- | |
| 5/23/2012 | 3.64 | 1.40 | -- | -- | -- | 5.20 | 37.00 | 0.10 U | 38.10 | -- | -- | |
| 8/22/2012 | 4.91 | 1.80 | -- | -- | -- | 0.20 | 11.30 | 9.40 | 0.30 | -- | -- | |
| 11/6/2012 | 1.84 | 1.2 | -- | -- | -- | 1 | 42.7 | 21.3 | 0.2 | -- | -- | |
| 8/27/2013 | 0.07 | 1 | -- | -- | -- | 0.3 J | 5.8 | -- | -- | -- | -- | |
| 11/19/2013 | 0.07 | 2.1 | -- | -- | -- | 0.7 | 9.6 | -- | -- | -- | -- | |
| 2/27/2014 | 0.54 | ND | -- | -- | -- | 11.5 | 44 | -- | -- | -- | -- | |
| 5/23/2014 | 0.09 | ND | -- | -- | -- | 0.8 J | 15.9 | -- | -- | -- | -- | |
| 8/21/2014 | 0.90 | 3.1 | -- | -- | -- | 0.1 J | 11 | -- | -- | -- | -- | |
| 11/20/2014 | 0.14 | 2.8 | -- | -- | -- | 0.4 | 12.2 | -- | -- | -- | -- | |
| MW-5 | 3/21/2000 | 0.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/14/2000 | 0.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/12/2000 | 0.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-------------|--------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-5 Cont. | 4/26/2001 | 0.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/29/2001 | 3.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/2001 | 0.90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/2002 | 0.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/2003 | 1.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/30/2003 | 0.30 | -- | -- | -- | -- | 0.200 U | 8.61 | -- | -- | 0.200 U | 1.8 |
| | 12/11/2003 | 1.30 | -- | -- | -- | -- | 0.200 U | 6.85 | -- | -- | 0.200 U | 0.0 |
| | 3/31/2004 | 0.42 | -- | -- | -- | -- | 1.32 | 16.1 | -- | -- | 0.200 U | 0.0 |
| | 6/2/2004 | 0.20 | -- | -- | -- | -- | 1.36 | 11.7 | -- | -- | 0.200 U | 0.0 |
| | 12/14/2004 | 0.49 | -- | -- | -- | -- | 0.200 U | 7.57 | -- | -- | 0.200 U | 2.95 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.200 U | 9.92 | -- | -- | 0.200 U | 3.06 J |
| | 10/6/2005 | -- | -- | -- | -- | -- | 0.200 U | 9.50 | -- | -- | 0.200 U | 0.25 U |
| | 6/28/2006 | 2.40 | -- | -- | -- | -- | 2.59 | 16 | -- | -- | 0.400 U | 0.25 U |
| | 11/13/2006 | 3.60 | ND | -- | -- | -- | 2.99 | 11.7 | -- | -- | 0.200 U | 0.25 U |
| | 5/25/2007 | 6.60 | ND | -- | -- | -- | 3.400 | 19.9 | -- | -- | 0.200 U | 0.25 U |
| | 11/7/2007 | 5.18 | ND | -- | -- | -- | 0.110 | 7.75 | -- | -- | 0.010 U | -- |
| | 6/4/2008 | 5.44 | ND | -- | -- | -- | 1.730 | 11.8 | -- | -- | 0.200 U | -- |
| | 10/22/2008 | 6.75 | ND | -- | -- | -- | 0.220 | 6.35 | -- | -- | 0.200 U | -- |
| | 10/15/2009 | 1.13 | ND | -- | -- | -- | 0.90 U | 5.2 | -- | -- | 1.5 J | -- |
| | 11/15/2010 | 0.00 | ND | -- | -- | -- | 0.1 | 6.6 | -- | -- | -- | -- |
| 11/2/2011 | 0.87 | 2 | -- | -- | -- | 0.4 | 21.7 | 16.7 | 0.1 | -- | -- | |
| 11/6/2012 | 2.06 | -- | -- | -- | -- | 0.3 | 7.2 | 7.9 | 0.1 U | -- | -- | |
| 11/19/2013 | 0.07 | ND | -- | -- | -- | 0.5 | 9.7 | -- | -- | -- | -- | |
| 11/20/2014 | 0.09 | ND | -- | -- | -- | 1 | 10.6 | -- | -- | -- | -- | |
| MW-6 | 3/21/2000 | 1.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/14/2000 | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/12/2000 | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/26/2001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/29/2001 | 2.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/2001 | 0.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/2002 | 0.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/2003 | 1.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/30/2003 | 0.12 | -- | -- | -- | -- | 0.200 U | 0.400 U | -- | -- | 0.200 U | 2.2 |
| | 12/11/2003 | 1.50 | -- | -- | -- | -- | 0.200 U | 0.685 | -- | -- | 0.200 U | 3.8 |
| 3/31/2004 | 0.15 | -- | -- | -- | -- | 0.200 U | 3.02 | -- | -- | 0.200 U | 3.4 | |

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-------------|-----------------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-6 Cont. | 6/2/2004 | 0.09 | -- | -- | -- | -- | 0.200 U | 0.557 | -- | -- | 0.200 U | 5.2 |
| | 9/30/2004 | 0.12 | -- | -- | -- | -- | 0.200 U | 0.400 U | -- | -- | 0.200 U | 6.4 |
| | 12/14/2004 | 0.42 | -- | -- | -- | -- | 0.200 U | 0.400 U | -- | -- | 0.200 U | 3.2 |
| | 4/4/2005 ^a | -- | -- | -- | -- | -- | 0.200 U | 3.19 | -- | -- | 0.200 U | 9.33 J |
| | 10/6/2005 | -- | -- | -- | -- | -- | 0.200 U | 0.400 U | -- | -- | 0.200 U | 9.33 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.200 U | 3.20 | -- | -- | 0.200 U | 9.53 |
| | 6/28/2006 | -- | -- | -- | -- | -- | 2.6 | 18.6 | -- | -- | 0.400 U | -- |
| | 11/13/2006 | 0.48 | 0.9-1.0 | -- | -- | -- | 0.200 U | 1.11 | -- | -- | 0.200 U | 6.95 |
| | 5/25/2007 | 1.11 | 4.2 | -- | -- | -- | 0.200 U | 2.67 | -- | -- | 0.200 U | 0.5 U |
| | 11/7/2007 | 5.18 | 5.4 | -- | -- | -- | 0.010 U | 2.24 | -- | -- | 0.010 U | -- |
| | 6/4/2008 | 5.76 | 5.2 | -- | -- | -- | 0.200 U | 3.68 | -- | -- | 0.200 U | -- |
| | 10/22/2008 | 4.15 | 5.4 | -- | -- | -- | 0.200 U | 0.40 U | -- | -- | 0.200 U | -- |
| | 10/14/2009 | 0.00 | 6.0 | -- | -- | -- | 0.90 UJ | 1.2 U | -- | -- | 1.7 J | -- |
| | 11/15/2010 | 0.00 | 3.4 | -- | -- | -- | 0.1 U | 1.5 | -- | -- | -- | -- |
| | 5/2/2011 | 0.00 | 1 | ND | 10 | 0.5 | 2.6 | 79.6 | 83 | 0.3 | -- | -- |
| 7/27/2011 | 0.48 | 2 | ND | 5 | 6 | 2 U | 879 | 97.8 | 2 U | -- | -- | |
| 11/2/2011 | 1.01 | ND | ND | ND | 5 | 0.1 | 14.8 | 25.1 | 0.2 | -- | -- | |
| 2/13/2012 | 2.62 | 1.6 | 3 | 15 | 2 | 3.1 | 68 | 25.7 | 0.1 | -- | -- | |
| 5/23/2012 | 4.96 | ND | -- | -- | -- | 0.10 U | 12.90 | 0.10 U | 41.00 | -- | -- | |
| 8/22/2012 | 7.09 | 2.00 | -- | -- | -- | 0.10 | 2.40 | 12.40 | 0.10 | -- | -- | |
| 11/6/2012 | 0.69 | 1.8 | -- | -- | -- | 0.1 U | 2.2 | 7.5 | 0.1 U | -- | -- | |
| 8/27/2013 | 0.12 | 1.2 | -- | -- | -- | 0.1 UJ | 1.4 | -- | -- | -- | -- | |
| 11/20/2013 | 0.10 | 2.8 | -- | -- | -- | 0.1 | 1.6 | -- | -- | -- | -- | |
| 2/27/2014 | 0.50 | 1.4 | -- | -- | -- | 0.6 | 8.9 | -- | -- | -- | -- | |
| 5/23/2014 | 0.20 | 3.9 | -- | -- | -- | 0.1 J | 6.5 | -- | -- | -- | -- | |
| 8/21/2014 | 1.16 | 5 | -- | -- | -- | 0.1 UJ | 1.4 | -- | -- | -- | -- | |
| 11/21/2014 | 2.26 | 3 | -- | -- | -- | 0.1 U | 2 | -- | -- | -- | -- | |
| MW-12 | 3/21/2000 | 5.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/14/2000 | 4.90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/12/2000 | 0.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/26/2001 | 4.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/29/2001 | 3.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/2001 | 5.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/2002 | 2.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 5/9/2003 | 6.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-------------|--------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-12 Cont. | 9/30/2003 | 1.66 | -- | -- | -- | -- | 0.452 | 5.32 | -- | -- | 0.200 U | 0.8 |
| | 12/11/2003 | 2.70 | -- | -- | -- | -- | 0.200 U | 2.77 | -- | -- | 0.200 U | 0.0 |
| | 3/31/2004 | 3.91 | -- | -- | -- | -- | 3.88 | 8.45 | -- | -- | 0.200 U | 0.0 |
| | 6/2/2004 | 5.20 | -- | -- | -- | -- | 3.64 | 11.7 | -- | -- | 0.200 U | 0.0 |
| | 9/30/2004 | 6.00 | -- | -- | -- | -- | 0.573 | 5.66 | -- | -- | 0.200 U | 0.0 |
| | 12/14/2004 | 1.32 | -- | -- | -- | -- | 0.200 U | 2.95 | -- | -- | 0.200 U | 0.0 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.200 U | 3.32 | -- | -- | 0.200 U | 0.25 R |
| | 10/12/2005 | -- | -- | -- | -- | -- | 0.200 U | 3.37 | -- | -- | 0.200 U | 0.25 U |
| | 6/28/2006 | 0.42 | -- | -- | -- | -- | 2.57 | 11.5 | -- | -- | 0.400 U | 0.25 U |
| | 11/13/2006 | 2.61 | ND | -- | -- | -- | 0.590 | 6.89 | -- | -- | 0.200 U | 0.25 U |
| | 5/25/2007 | 6.71 | ND | -- | -- | -- | 7.140 | 18.4 | -- | -- | 0.200 U | 0.25 U |
| | 11/8/2007 | 6.33 | ND | -- | -- | -- | 0.121 | 11.5 | -- | -- | 0.010 U | -- |
| | 6/4/2008 | 9.50 | ND | -- | -- | -- | 6.020 | 16.4 | -- | -- | 0.200 U | -- |
| | 10/22/2008 | 8.88 | ND | -- | -- | -- | 0.330 | 10.1 | -- | -- | 0.200 U | -- |
| | 10/14/2009 | 2.23 | ND | -- | -- | -- | 0.90 UJ | 5.2 | -- | -- | 1.4 J | -- |
| 11/15/2010 | 2.73 | ND | -- | -- | -- | 0.2 | 13.4 | -- | -- | -- | -- | |
| 11/2/2011 | 3.01 | ND | -- | -- | -- | 0.7 | 60.3 | 493 | 0.3 | -- | -- | |
| MW-13 | 3/21/2000 | 4.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/14/2000 | 1.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/12/2000 | 3.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/26/2001 | 5.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/29/2001 | 3.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/2001 | 3.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/30/2003 | 3.04 | -- | -- | -- | -- | 0.455 | 4.91 | -- | -- | 0.200 U | -- |
| | 12/11/2003 | 6.70 | -- | -- | -- | -- | 0.477 | 5.56 | -- | -- | 0.200 U | 0.0 |
| | 3/31/2004 | 4.87 | -- | -- | -- | -- | 1.60 | 8.04 | -- | -- | 0.200 U | 0.0 |
| | 6/2/2004 | 1.85 | -- | -- | -- | -- | 1.05 | 6.52 | -- | -- | 0.200 U | 0.0 |
| | 9/30/2004 | 2.69 | -- | -- | -- | -- | 0.496 | 4.49 | -- | -- | 0.200 U | 0.0 |
| | 12/14/2004 | 5.57 | -- | -- | -- | -- | 0.412 | 5.10 | -- | -- | 0.200 U | 0.0 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.582 | 4.99 | -- | -- | 0.200 U | 0.547 J |
| | 10/6/2005 | -- | -- | -- | -- | -- | 0.348 | 3.68 | -- | -- | 0.200 U | 0.25 U |
| | 6/28/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/13/2006 | 3.49 | ND | -- | -- | -- | 0.940 | 6.18 | -- | -- | 0.200 U | 0.25 U | |
| 5/25/2007 | 4.14 | ND | -- | -- | -- | 1.670 | 7.57 | -- | -- | 0.200 U | 0.25 U | |

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-------------|--------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-13 Cont. | 11/8/2007 | 6.93 | ND | -- | -- | -- | 0.490 | 4.09 | -- | -- | 0.010 U | -- |
| | 6/4/2008 | 6.90 | ND | -- | -- | -- | 1.280 | 5.51 | -- | -- | 0.200 U | -- |
| | 10/22/2008 | 9.35 | ND | -- | -- | -- | 0.440 | 3.56 | -- | -- | 0.200 U | -- |
| | 10/15/2009 | 4.61 | ND | -- | -- | -- | 0.90 U | 3.3 | -- | -- | 1.2 J | -- |
| | 11/15/2010 | 4.38 | ND | -- | -- | -- | 0.4 | 3.7 | -- | -- | -- | -- |
| | 5/2/2011 | 4.87 | ND | ND | 5 | ND | 2.4 | 7.3 | 20.7 | 0.1 U | -- | -- |
| | 7/27/2011 | 1.47 | ND | ND | 10 | 0.25 | 1.3 | 5.8 | 9.4 | 0.1 U | -- | -- |
| | 11/2/2011 | 5.11 | ND | 0.5 | ND | ND | 0.4 | 4.7 | 6.3 | 0.1 | -- | -- |
| | 2/13/2012 | 4.58 | ND | ND | ND | ND | 0.9 | 5.6 | 21.7 | 0.1 U | -- | -- |
| | 5/23/2012 | 7.47 | ND | -- | -- | -- | 0.90 | 5.00 | 0.10 U | 11.30 | -- | -- |
| | 8/22/2012 | 8.13 | ND | -- | -- | -- | 0.30 | 4.00 | 5.40 | 0.10 U | -- | -- |
| | 11/6/2012 | 4.97 | ND | -- | -- | -- | 0.3 | 4.5 | 5.8 | 0.1 U | -- | -- |
| | 8/27/2013 | 3.20 | ND | -- | -- | -- | 0.3 J | 3.1 | -- | -- | -- | -- |
| | 11/20/2013 | 4.67 | ND | -- | -- | -- | 0.4 | 3.6 | -- | -- | -- | -- |
| | 2/27/2014 | 6.02 | -- | -- | -- | -- | 0.5 | 4.9 | -- | -- | -- | -- |
| | 5/23/2014 | 3.71 | -- | -- | -- | -- | 0.9 J | 4.9 | -- | -- | -- | -- |
| 8/21/2014 | 3.08 | ND | -- | -- | -- | 0.4 J | 3.7 | -- | -- | -- | -- | |
| 11/21/2014 | 3.46 | ND | -- | -- | -- | 0.4 | 4.9 | -- | -- | -- | -- | |
| MW-15 | 1/30/2001 | 1.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/26/2001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/29/2001 | 2.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/2001 | 1.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/15/2002 | 0.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/2003 | 1.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/30/2003 | 0.56 | -- | -- | -- | -- | 0.282 | 5.02 | -- | -- | 0.200 U | 2.6 |
| | 12/11/2003 | 2.80 | -- | -- | -- | -- | 0.415 | 8.52 | -- | -- | 0.200 U | 0.0 |
| | 3/31/2004 | 0.88 | -- | -- | -- | -- | 0.200 U | 8.42 | -- | -- | 0.200 U | 0.0 |
| | 6/2/2004 | 0.40 | -- | -- | -- | -- | 1.67 | 8.32 | -- | -- | 0.200 U | 0.0 |
| | 9/30/2004 | 0.33 | -- | -- | -- | -- | 0.429 | 4.56 | -- | -- | 0.200 U | 0.0 |
| | 12/14/2004 | 1.40 | -- | -- | -- | -- | 0.200 U | 6.68 | -- | -- | 0.200 U | 0.0 |
| | 4/4/2005 | -- | -- | -- | -- | -- | 0.200 U | 7.45 | -- | -- | 0.200 U | 0.254 J |
| | 10/6/2005 | -- | -- | -- | -- | -- | 0.340 | 4.14 | -- | -- | 0.200 U | 0.25 U |
| | 6/28/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2006 | 1.06 | ND | -- | -- | -- | 0.450 | 6.48 | -- | -- | 0.200 U | 0.25 U |
| | 5/25/2007 | 2.63 | ND | -- | -- | -- | 3.070 | 10.4 | -- | -- | 0.200 U | 0.25 U |

Table 4 - Summary of Groundwater Chemistry Data - Other Compounds

| Exploration | Date Sampled | Field Test Results - Concentrations in mg/L | | | | | Concentration in mg/L | | | | | |
|-----------------------------|--------------|---|--------------|---------|---------|---------|-----------------------|---------|----------|---------|---------|--------------|
| | | Dissolved Oxygen | Ferrous Iron | Nitrite | Nitrate | Ammonia | Nitrate | Sulfate | Chloride | Bromide | Nitrite | Ferrous Iron |
| MW-15 Cont. | 11/7/2007 | 5.66 | ND | -- | -- | -- | 0.220 | 5.21 | -- | -- | 0.010 U | -- |
| | 6/5/2008 | 6.50 | ND | -- | -- | -- | 2.010 | 8.02 | -- | -- | 0.200 U | -- |
| | 10/22/2008 | 5.61 | ND | -- | -- | -- | 0.280 | 3.81 | -- | -- | 0.200 U | -- |
| | 10/14/2009 | 0.00 | ND | -- | -- | -- | 0.90 UJ | 3.1 | -- | -- | 1.2 J | -- |
| | 11/15/2010 | 0.67 | ND | -- | -- | -- | 0.2 | 4.1 | -- | -- | -- | -- |
| | 11/2/2011 | 1.30 | ND | -- | -- | -- | 0.4 | 6 | 8.7 | 0.1 U | -- | -- |
| | 11/6/2012 | 2.03 | ND | -- | -- | -- | 0.3 | 4.9 | 5.4 | 0.1 U | -- | -- |
| | 11/20/2013 | 0.53 | ND | -- | -- | -- | 0.2 | 4.0 | -- | -- | -- | -- |
| | 11/21/2014 | 1.42 | -- | -- | -- | -- | 0.1 | 3.6 | -- | -- | -- | -- |
| MTCA Method A Cleanup Level | | | | | | | na | na | na | na | na | na |

Notes:

Nitrate, sulfate, chloride, bromide, and nitrite analyzed by EPA Method 300.0.

MTBE, EDB, and EDC analyzed by EPA Method 8260B.

-- Not analyzed.

U = Not detected above specified reporting limit.

J = Estimated concentration.

R = Rejected concentration.

ND = Analyte not detected.

Notes Continued:

Bolded concentrations exceed MTCA Method A cleanup levels.

a) Values shown are the average of the results for the sample and its field duplicate.

na = No MTCA Method A or B value available.

First dashed line indicates soil was excavated in November 2000.

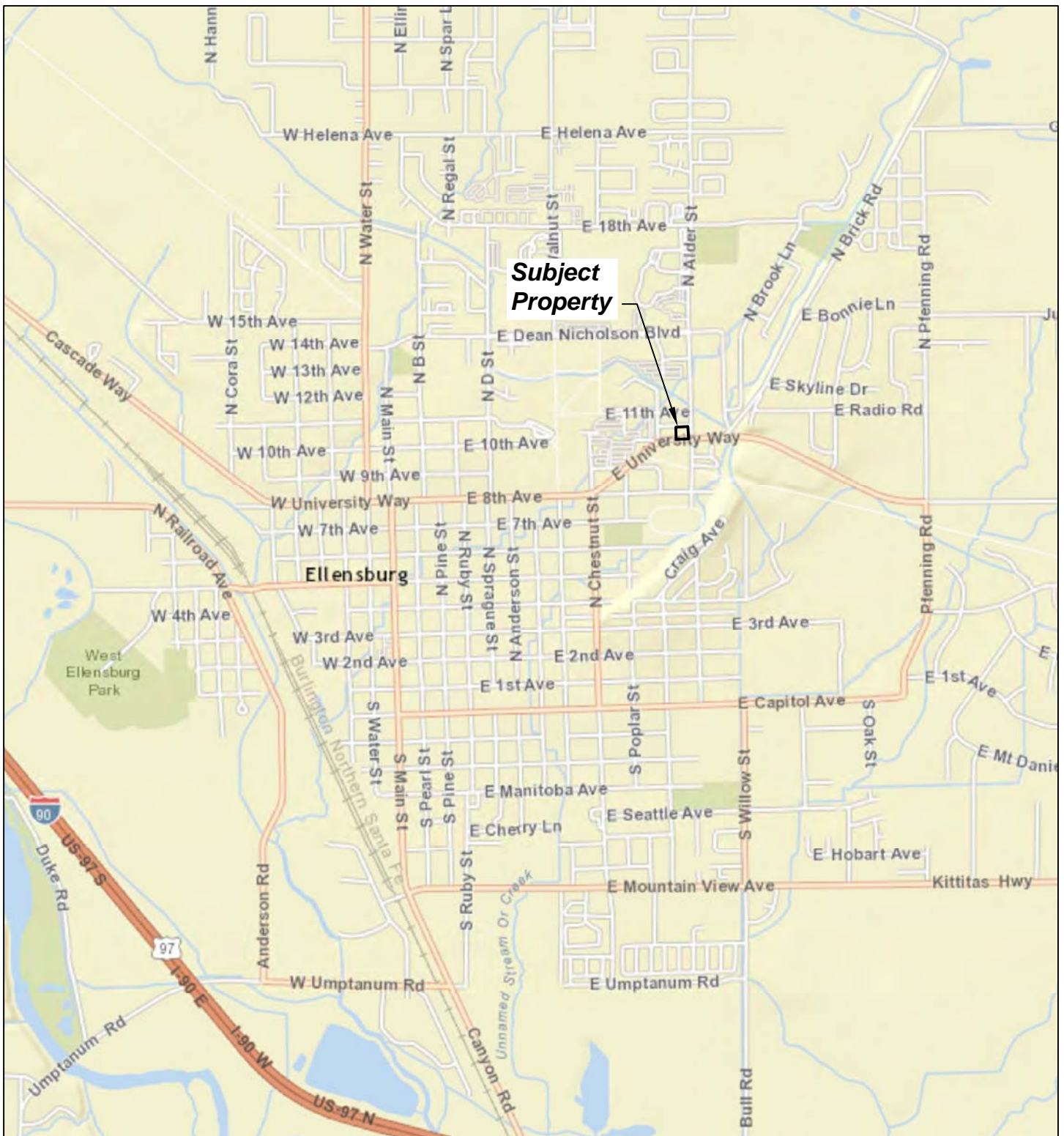
Second dashed line indicates bioremediation amendments were injected in January 2011.

Access to well MW-12 was obstructed in May and August 2012 by a large soil stockpile.

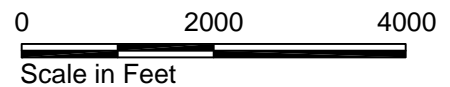
Well MW-12 was not located in November 2012 and possibly destroyed. Well status needs to be confirmed next monitoring round.

Table 5 - Measured Free Product Thickness in Well MW-1/MW-14

| Date Measured | Product Thickness in Well in Inches | |
|---------------|-------------------------------------|---------------------------|
| 4/8/1996 | 0 | |
| 4/6/1998 | 6 | |
| 10/5/1998 | 6 | |
| 12/29/1999 | 0.2 | |
| 3/21/2000 | 5 | |
| 6/14/2000 | 1 | |
| 9/12/2000 | 1 | |
| <hr/> | | |
| 1/30/2001 | 0 | Hotspot Excavation |
| 4/26/2001 | 0 | |
| 7/29/2001 | 0 | |
| 10/27/2001 | 4 | |
| 11/15/2002 | 3 | |
| 5/9/2003 | 0 | |
| 9/30/2003 | 0 | |
| 12/12/2003 | 1 | |
| 3/31/2004 | 1.80 | |
| 6/2/2004 | 0 | |
| 9/30/2004 | 0 | |
| 12/14/2004 | 0.18 | |
| <hr/> | | |
| 4/4/2005 | 0 | UST Removal |
| 10/6/2005 | 0 | |
| 6/28/2006 | 0 | |
| 5/25/2007 | 0 | |
| 11/7/2007 | 0 | |
| 6/4/2008 | 0 | |
| 10/21/2008 | 0 | |
| 10/14/2009 | 0 | |
| 11/15/2010 | 0 | |
| <hr/> | | |
| 5/2/2011 | 0 | Bioremediation Injections |
| 7/27/2011 | 0 | |
| 11/2/2011 | 0 | |
| 2/13/2012 | 0 | |
| 5/23/2012 | 0 | |
| 8/22/2012 | 0 | |
| 11/6/2012 | 0 | |
| 8/27/2013 | 0 | |
| 11/19/2013 | 0 | |
| 2/27/2014 | 0 | |
| 5/23/2014 | 0 | |
| 8/21/2014 | 0 | |
| 11/20/2014 | 0 | |

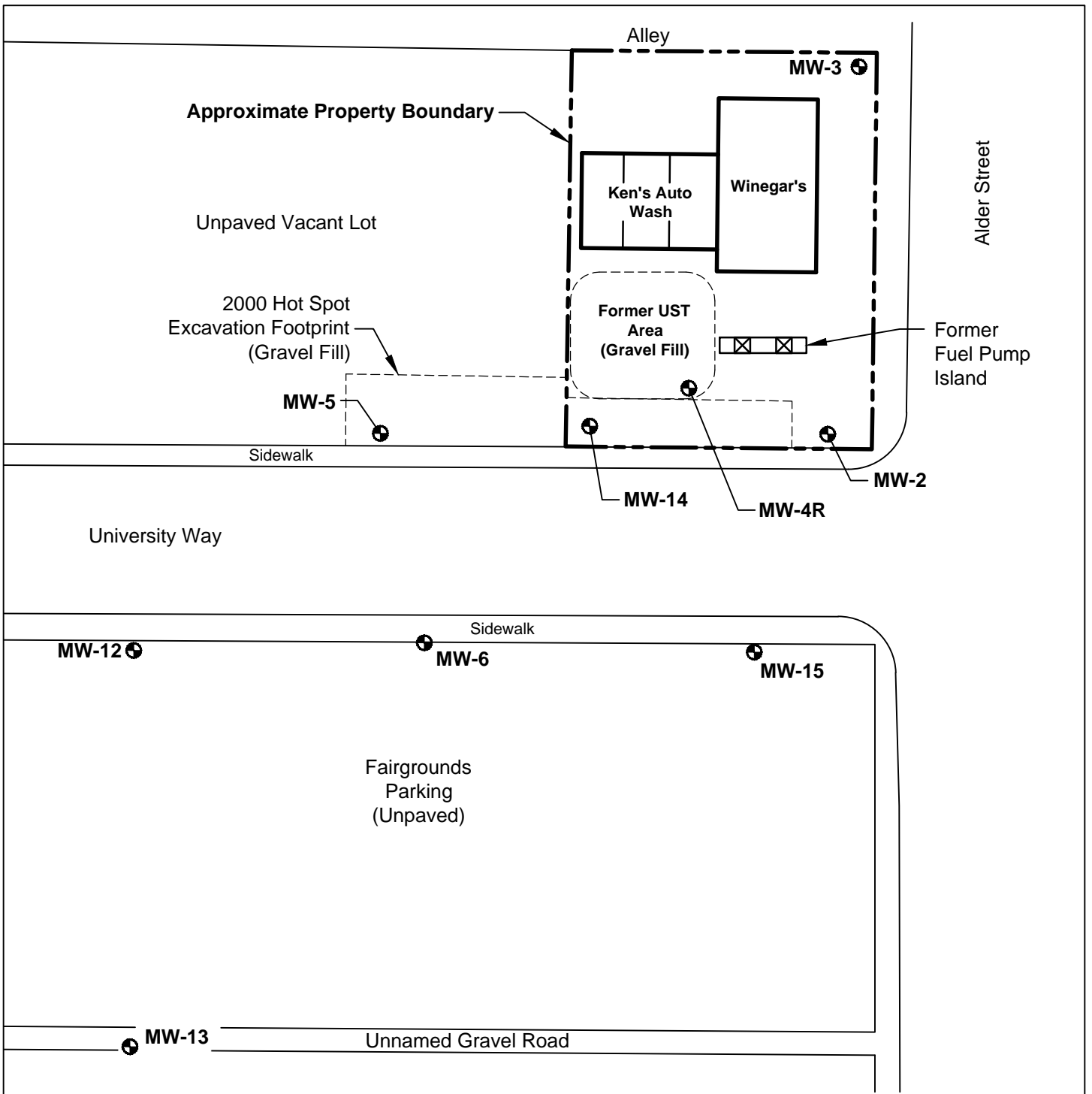


Note: Base map prepared from ArcGIS online, 2014.

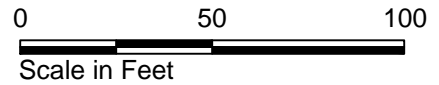


| | |
|---|------|
| Ken's Auto Wash Ellensburg, Washington | |
| Vicinity Map | |
| 7168-10 | 1/15 |
| | |
| Figure 1 | |

This page is intentionally left blank
for double-sided printing.



Note: Base map prepared from drawing provided by Sage Earth Sciences titled "Proposed Additional Monitoring Well and ORC Injections Locations," dated January 1998.

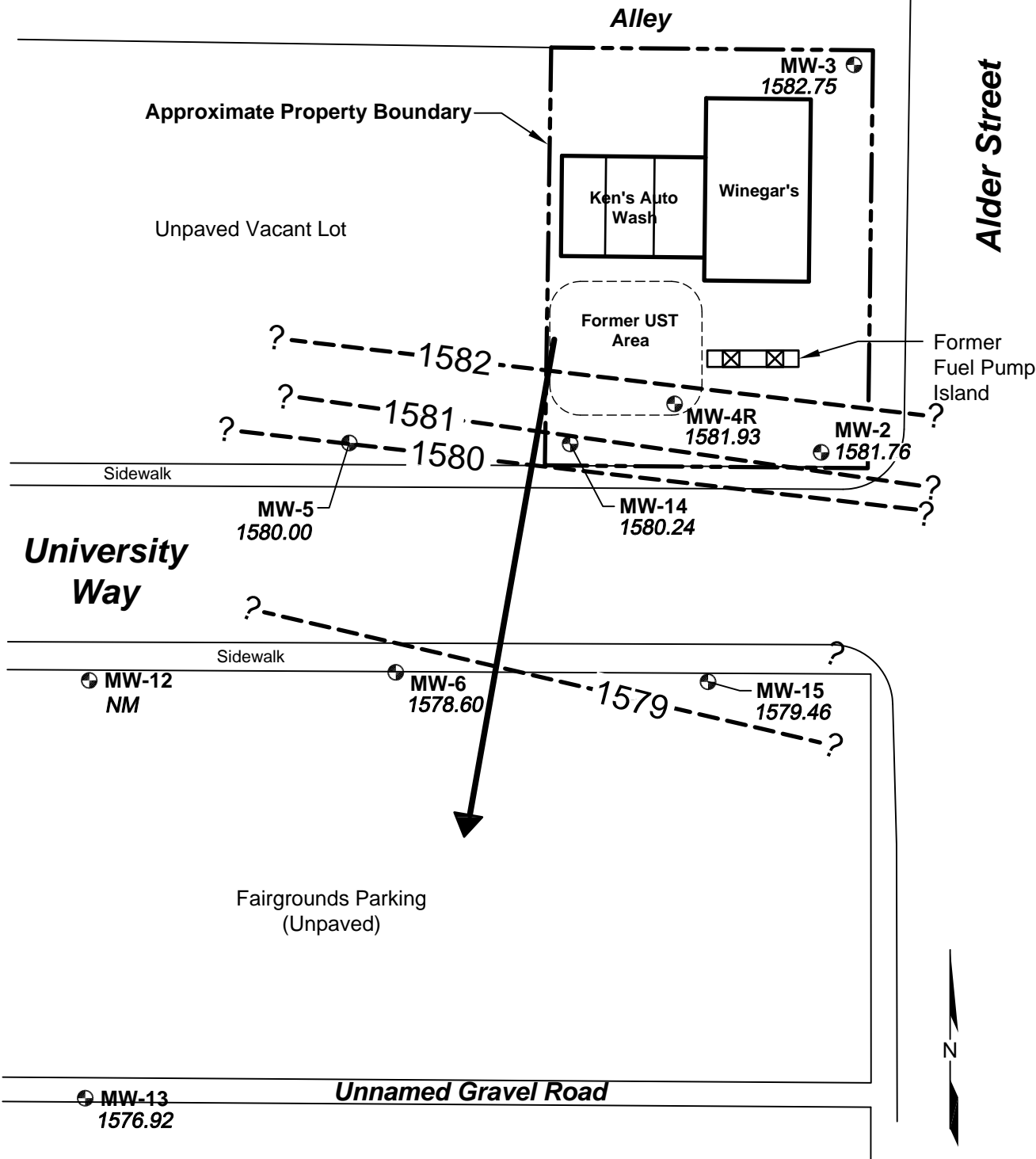


⊕ MW-6 Hart Crowser Monitoring Well Location and Number

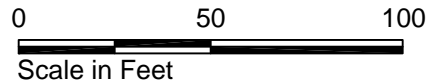


| | |
|---|--------------------|
| Ken's Auto Wash Ellensburg, Washington | |
| Site and Well Location Plan | |
| 7168-10 | 1/15 |
| HARTCROWSER | Figure 2 |

This page is intentionally left blank
for double-sided printing.



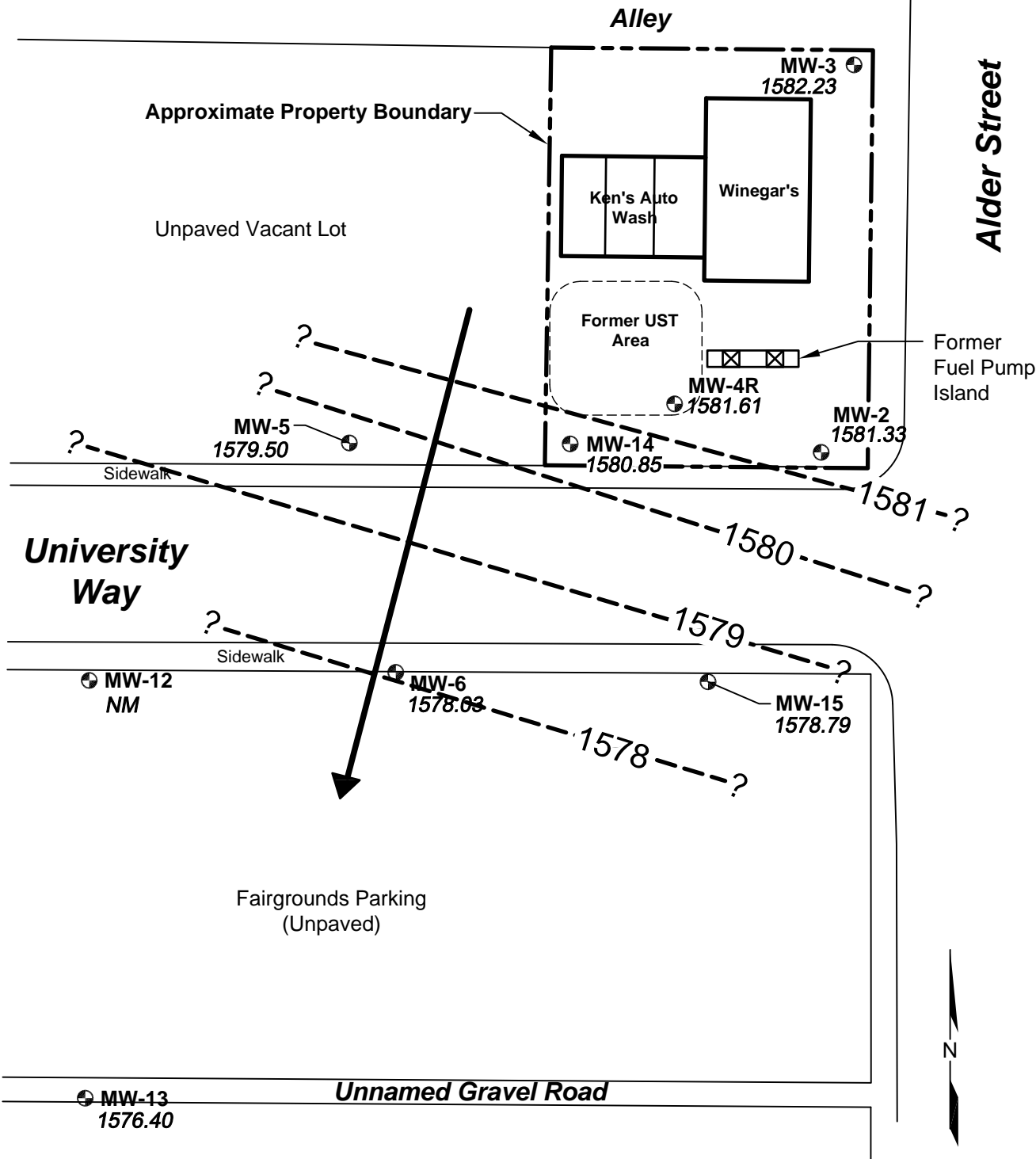
Note: Elevation shown are in feet above Mean Sea Level.



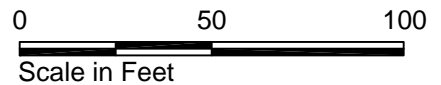
- MW-6** Monitoring Well Location and Number
1578.94 Groundwater Elevation in Feet
NM Not Measured
- - - - **1580** Groundwater Elevation Contour in Feet
- Inferred Groundwater Flow Direction

| | |
|--|---------------------|
| Ken's Auto Wash Ellensburg, Washington | |
| Groundwater Elevation Contour Map November 2013 | |
| 7168-10 | 1/15 |
| | Figure 3a |

This page is intentionally left blank
for double-sided printing.



Note: Elevation shown are in feet above Mean Sea Level.

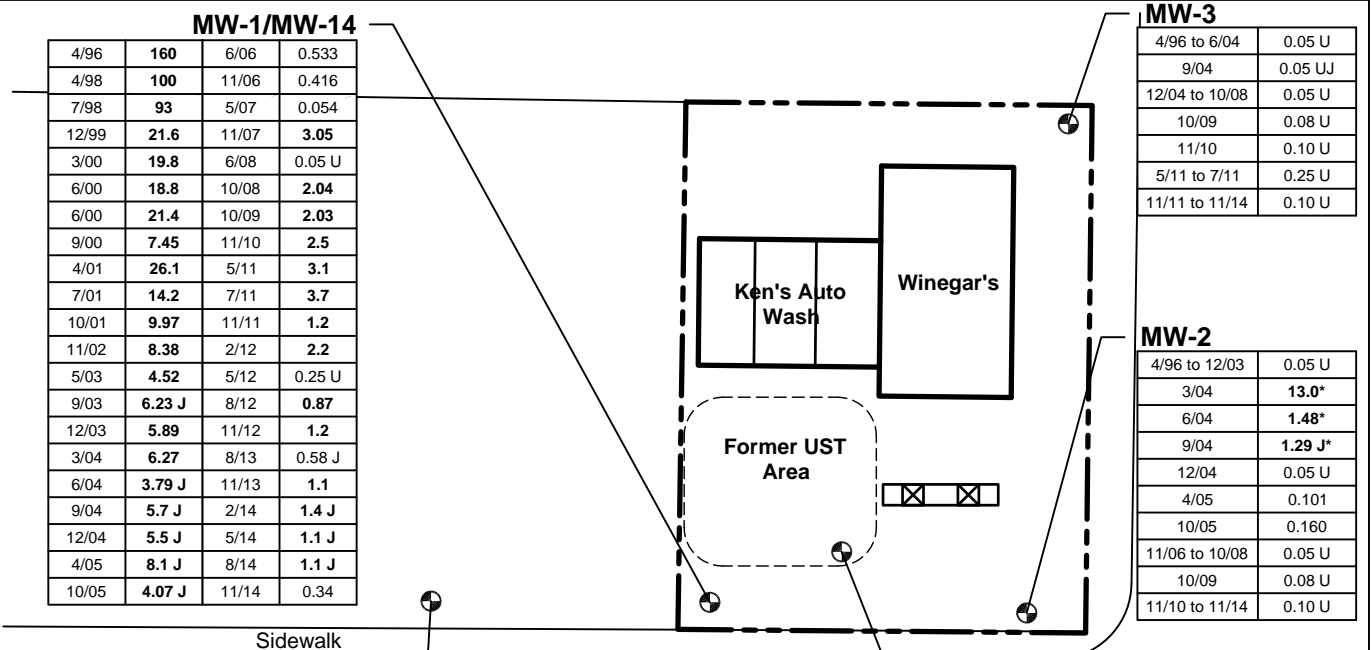
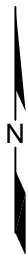


- **MW-6** Monitoring Well Location and Number
1578.94 Groundwater Elevation in Feet
NM Not Measured
- - - 1580 Groundwater Elevation Contour in Feet
- Inferred Groundwater Flow Direction

| | |
|--|----------------------------|
| Ken's Auto Wash Ellensburg, Washington | |
| Groundwater Elevation Contour Map November 2014 | |
| 7168-10 | 1/15 |
| | Figure 3b |

EAL 01/7/15 716810-011.dwg

This page is intentionally left blank
for double-sided printing.



MW-1/MW-14

| | | | |
|-------|---------------|-------|--------------|
| 4/96 | 160 | 6/06 | 0.533 |
| 4/98 | 100 | 11/06 | 0.416 |
| 7/98 | 93 | 5/07 | 0.054 |
| 12/99 | 21.6 | 11/07 | 3.05 |
| 3/00 | 19.8 | 6/08 | 0.05 U |
| 6/00 | 18.8 | 10/08 | 2.04 |
| 6/00 | 21.4 | 10/09 | 2.03 |
| 9/00 | 7.45 | 11/10 | 2.5 |
| 4/01 | 26.1 | 5/11 | 3.1 |
| 7/01 | 14.2 | 7/11 | 3.7 |
| 10/01 | 9.97 | 11/11 | 1.2 |
| 11/02 | 8.38 | 2/12 | 2.2 |
| 5/03 | 4.52 | 5/12 | 0.25 U |
| 9/03 | 6.23 J | 8/12 | 0.87 |
| 12/03 | 5.89 | 11/12 | 1.2 |
| 3/04 | 6.27 | 8/13 | 0.58 J |
| 6/04 | 3.79 J | 11/13 | 1.1 |
| 9/04 | 5.7 J | 2/14 | 1.4 J |
| 12/04 | 5.5 J | 5/14 | 1.1 J |
| 4/05 | 8.1 J | 8/14 | 1.1 J |
| 10/05 | 4.07 J | 11/14 | 0.34 |

MW-3

| | |
|----------------|---------|
| 4/96 to 6/04 | 0.05 U |
| 9/04 | 0.05 UJ |
| 12/04 to 10/08 | 0.05 U |
| 10/09 | 0.08 U |
| 11/10 | 0.10 U |
| 5/11 to 7/11 | 0.25 U |
| 11/11 to 11/14 | 0.10 U |

MW-2

| | |
|----------------|----------------|
| 4/96 to 12/03 | 0.05 U |
| 3/04 | 13.0* |
| 6/04 | 1.48* |
| 9/04 | 1.29 J* |
| 12/04 | 0.05 U |
| 4/05 | 0.101 |
| 10/05 | 0.160 |
| 11/06 to 10/08 | 0.05 U |
| 10/09 | 0.08 U |
| 11/10 to 11/14 | 0.10 U |

MW-12

| | |
|----------------|---------|
| 12/99 to 6/04 | 0.05 U |
| 9/04 | 0.05 UJ |
| 12/04 to 10/08 | 0.05 U |
| 10/09 | 0.08 U |
| 11/10 to 11/11 | 0.10 U |

MW-15

| | |
|----------------|---------|
| 1/01 | 0.161 |
| 4/01 to 6/04 | 0.05 U |
| 9/04 | 0.05 UJ |
| 12/04 to 10/08 | 0.05 U |
| 10/09 | 0.08 U |
| 11/10 to 11/14 | 0.10 U |

MW-4/MW-4R

| | | | |
|-------|--------|---------------|----------|
| 1/98 | 0.2 | 6/04 | 0.14 |
| 4/98 | 0.4 | 9/04 | 0.0887 J |
| 7/98 | 0.05 U | 12/04 | 0.05 U |
| 10/98 | 0.15 | 4/05 | 0.112 |
| 12/99 | 0.301 | 10/05 | 0.744 |
| 3/00 | 0.414 | 6/06 | 0.05 U |
| 6/00 | 0.439 | 11/06 | 0.107 |
| 9/00 | 0.101 | 5/07 | 0.05 U |
| 1/01 | 0.182 | 11/07 | 0.075 |
| 4/01 | 0.673 | 6/08 to 10/08 | 0.05 U |
| 7/01 | 0.402 | 10/09 | 0.08 U |
| 10/01 | 0.200 | 11/10 | 0.10 U |
| 11/02 | 0.0756 | 5/11 | 0.25 U |
| 5/03 | 0.0618 | 7/11 | 0.98 |
| 9/03 | 0.161 | 11/11 to 2/12 | 0.10 U |
| 12/03 | 0.05 U | 5/12 | 0.25 U |
| 3/04 | 0.267 | 8/12 to 11/14 | 0.10 U |

MW-5

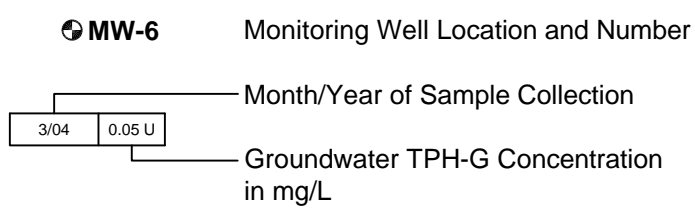
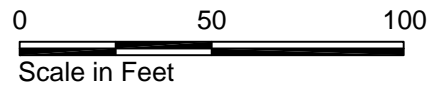
| | | | |
|-------|--------------|----------------|--------|
| 1/98 | 6.2 | 3/04 | 0.053 |
| 4/98 | 2.8 | 6/04 | 0.0928 |
| 7/98 | 0.05 U | 12/04 | 0.308 |
| 10/98 | 4.7 | 3/04 | 0.053 |
| 12/99 | 0.779 | 6/04 | 0.0928 |
| 3/00 | 0.519 | 12/04 | 0.308 |
| 6/00 | 0.708 | 4/05 | 0.620 |
| 9/00 | 0.05 U | 10/05 | 0.114 |
| 4/01 | 0.831 | 6/06 to 10/08 | 0.05 U |
| 7/01 | 0.0538 | | |
| 10/01 | 0.552 | 10/09 | 0.08 U |
| 11/02 | 0.108 | 11/10 | 0.17 |
| 5/03 | 0.0787 | 11/11 to 11/14 | 0.10 U |
| 9/03 | 0.229 | | |
| 12/03 | 0.05 U | | |

MW-6

| | | | |
|-------|---------------|-------|---------------|
| 1/98 | 2.2 | 11/06 | 0.826 |
| 4/98 | 4.2 | 5/07 | 1.46 |
| 7/98 | 6.9 | 11/07 | 0.729 |
| 10/98 | 5.8 | 6/08 | 1.55 |
| 12/99 | 2.1 | 10/08 | 0.855 |
| 3/00 | 1.6 | 10/09 | 0.501 |
| 6/00 | 2.2 | 11/10 | 0.45 |
| 9/00 | 1.6 | 5/11 | 0.49 |
| 4/01 | 1.32 | 7/11 | 0.61 |
| 7/01 | 5.05 | 11/11 | 0.59 |
| 10/01 | 1.91 | 2/12 | 1.6 |
| 11/02 | 1.27 | 5/12 | 0.93 |
| 5/03 | 1.71 | 8/12 | 0.50 |
| 9/03 | 1.61 | 11/12 | 0.41 |
| 12/03 | 0.62 | 8/13 | 0.30 J |
| 3/04 | 1.16 | 11/13 | 0.31 |
| 6/04 | 2.3 J | 2/14 | 0.10 UJ |
| 9/04 | 1.5 J | 5/14 | 0.92 J |
| 12/04 | 0.672 | 8/14 | 0.37 J |
| 4/05 | 0.985 | 11/14 | 0.11 |
| 10/05 | 1.38 J | | |

MW-13

| | |
|----------------|---------|
| 12/99 to 6/04 | 0.05 U |
| 9/04 | 0.05 UJ |
| 12/04 to 10/08 | 0.05 U |
| 10/09 | 0.08 U |
| 11/10 to 11/11 | 0.10 U |
| 5/12 | 0.25 U |
| 8/12 to 11/14 | 0.10 U |



Notes: Concentrations exceeding the cleanup level are shown in bold.
 U = Not detected at specified detection limit
 J = Estimated concentration
 * = Previous inflow of minor TPH-contaminated water through MW-2 top of well casing suspected

Ken's Auto Wash
Ellensburg, Washington

TPH-G Occurrences in Groundwater

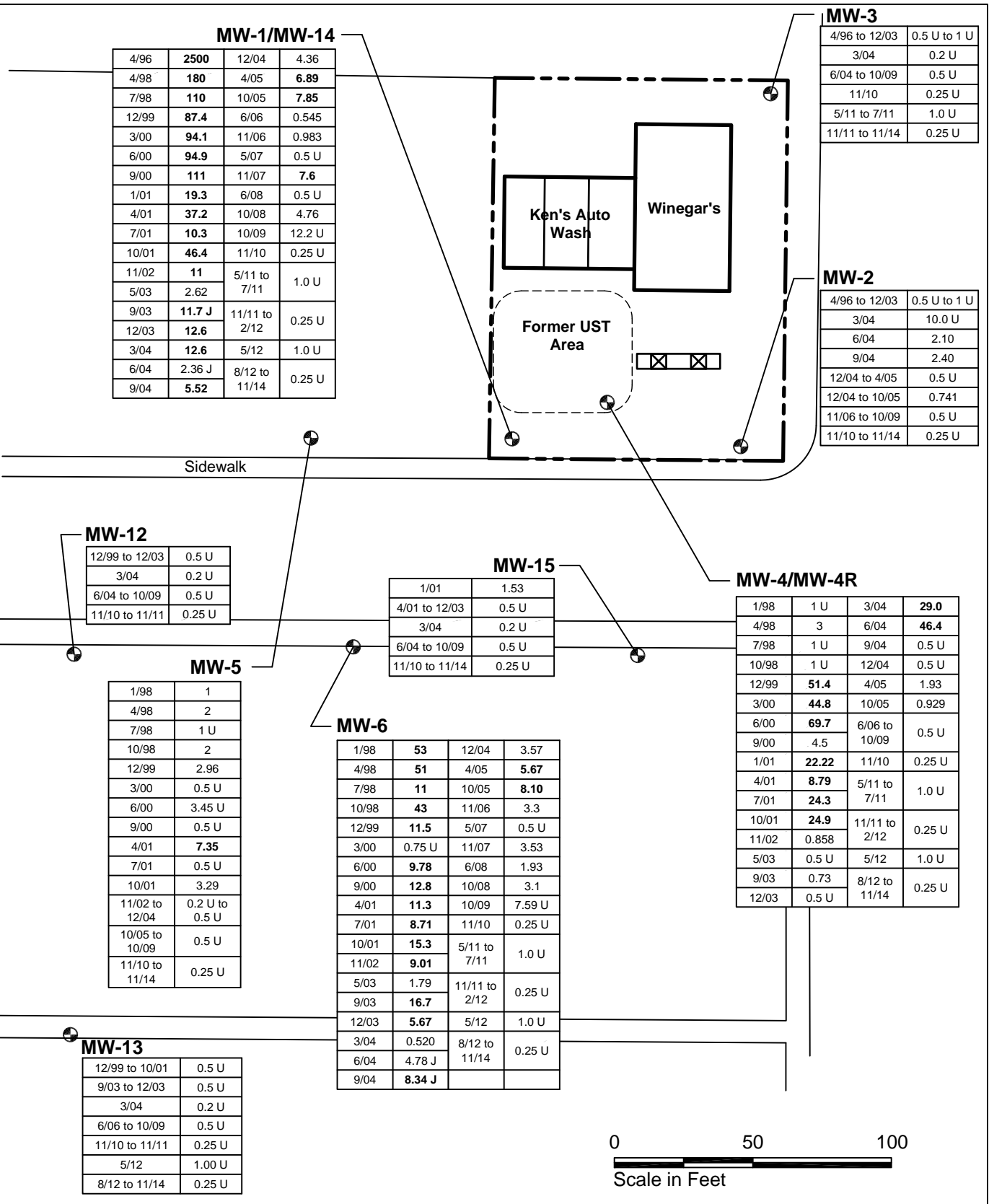
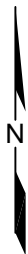
7168-10 1/15

HARTCROWSER

Figure
4

EAL 01/7/15 7:16810-012.dwg

This page is intentionally left blank
for double-sided printing.



MW-1/MW-14

| | | | |
|-------|---------------|---------------|-------------|
| 4/96 | 2500 | 12/04 | 4.36 |
| 4/98 | 180 | 4/05 | 6.89 |
| 7/98 | 110 | 10/05 | 7.85 |
| 12/99 | 87.4 | 6/06 | 0.545 |
| 3/00 | 94.1 | 11/06 | 0.983 |
| 6/00 | 94.9 | 5/07 | 0.5 U |
| 9/00 | 111 | 11/07 | 7.6 |
| 1/01 | 19.3 | 6/08 | 0.5 U |
| 4/01 | 37.2 | 10/08 | 4.76 |
| 7/01 | 10.3 | 10/09 | 12.2 U |
| 10/01 | 46.4 | 11/10 | 0.25 U |
| 11/02 | 11 | 5/11 to 7/11 | 1.0 U |
| 5/03 | 2.62 | | |
| 9/03 | 11.7 J | 11/11 to 2/12 | 0.25 U |
| 12/03 | 12.6 | | |
| 3/04 | 12.6 | 5/12 | 1.0 U |
| 6/04 | 2.36 J | 8/12 to 11/14 | 0.25 U |
| 9/04 | 5.52 | | |

MW-3

| | |
|----------------|--------------|
| 4/96 to 12/03 | 0.5 U to 1 U |
| 3/04 | 0.2 U |
| 6/04 to 10/09 | 0.5 U |
| 11/10 | 0.25 U |
| 5/11 to 7/11 | 1.0 U |
| 11/11 to 11/14 | 0.25 U |

MW-2

| | |
|----------------|--------------|
| 4/96 to 12/03 | 0.5 U to 1 U |
| 3/04 | 10.0 U |
| 6/04 | 2.10 |
| 9/04 | 2.40 |
| 12/04 to 4/05 | 0.5 U |
| 12/04 to 10/05 | 0.741 |
| 11/06 to 10/09 | 0.5 U |
| 11/10 to 11/14 | 0.25 U |

MW-12

| | |
|----------------|--------|
| 12/99 to 12/03 | 0.5 U |
| 3/04 | 0.2 U |
| 6/04 to 10/09 | 0.5 U |
| 11/10 to 11/11 | 0.25 U |

MW-15

| | |
|----------------|--------|
| 1/01 | 1.53 |
| 4/01 to 12/03 | 0.5 U |
| 3/04 | 0.2 U |
| 6/04 to 10/09 | 0.5 U |
| 11/10 to 11/14 | 0.25 U |

MW-4/MW-4R

| | | | |
|-------|--------------|---------------|-------------|
| 1/98 | 1 U | 3/04 | 29.0 |
| 4/98 | 3 | 6/04 | 46.4 |
| 7/98 | 1 U | 9/04 | 0.5 U |
| 10/98 | 1 U | 12/04 | 0.5 U |
| 12/99 | 51.4 | 4/05 | 1.93 |
| 3/00 | 44.8 | 10/05 | 0.929 |
| 6/00 | 69.7 | 6/06 to 10/09 | 0.5 U |
| 9/00 | 4.5 | | |
| 1/01 | 22.22 | 11/10 | 0.25 U |
| 4/01 | 8.79 | 5/11 to 7/11 | 1.0 U |
| 7/01 | 24.3 | | |
| 10/01 | 24.9 | 11/11 to 2/12 | 0.25 U |
| 11/02 | 0.858 | | |
| 5/03 | 0.5 U | 5/12 | 1.0 U |
| 9/03 | 0.73 | 8/12 to 11/14 | 0.25 U |
| 12/03 | 0.5 U | | |

MW-5

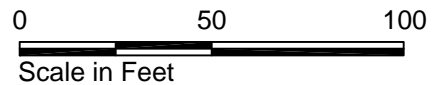
| | |
|----------------|----------------|
| 1/98 | 1 |
| 4/98 | 2 |
| 7/98 | 1 U |
| 10/98 | 2 |
| 12/99 | 2.96 |
| 3/00 | 0.5 U |
| 6/00 | 3.45 U |
| 9/00 | 0.5 U |
| 4/01 | 7.35 |
| 7/01 | 0.5 U |
| 10/01 | 3.29 |
| 11/02 to 12/04 | 0.2 U to 0.5 U |
| 10/05 to 10/09 | 0.5 U |
| 11/10 to 11/14 | 0.25 U |

MW-6

| | | | |
|-------|---------------|---------------|-------------|
| 1/98 | 53 | 12/04 | 3.57 |
| 4/98 | 51 | 4/05 | 5.67 |
| 7/98 | 11 | 10/05 | 8.10 |
| 10/98 | 43 | 11/06 | 3.3 |
| 12/99 | 11.5 | 5/07 | 0.5 U |
| 3/00 | 0.75 U | 11/07 | 3.53 |
| 6/00 | 9.78 | 6/08 | 1.93 |
| 9/00 | 12.8 | 10/08 | 3.1 |
| 4/01 | 11.3 | 10/09 | 7.59 U |
| 7/01 | 8.71 | 11/10 | 0.25 U |
| 10/01 | 15.3 | 5/11 to 7/11 | 1.0 U |
| 11/02 | 9.01 | | |
| 5/03 | 1.79 | 11/11 to 2/12 | 0.25 U |
| 9/03 | 16.7 | | |
| 12/03 | 5.67 | 5/12 | 1.0 U |
| 3/04 | 0.520 | 8/12 to 11/14 | 0.25 U |
| 6/04 | 4.78 J | | |
| 9/04 | 8.34 J | | |

MW-13

| | |
|----------------|--------|
| 12/99 to 10/01 | 0.5 U |
| 9/03 to 12/03 | 0.5 U |
| 3/04 | 0.2 U |
| 6/06 to 10/09 | 0.5 U |
| 11/10 to 11/11 | 0.25 U |
| 5/12 | 1.00 U |
| 8/12 to 11/14 | 0.25 U |



Notes: Concentrations exceeding the cleanup level are shown in bold.
 U = Not detected at specified detection limit.
 J = Estimated concentration

Ken's Auto Wash
Ellensburg, Washington

Benzene Occurrences in Groundwater

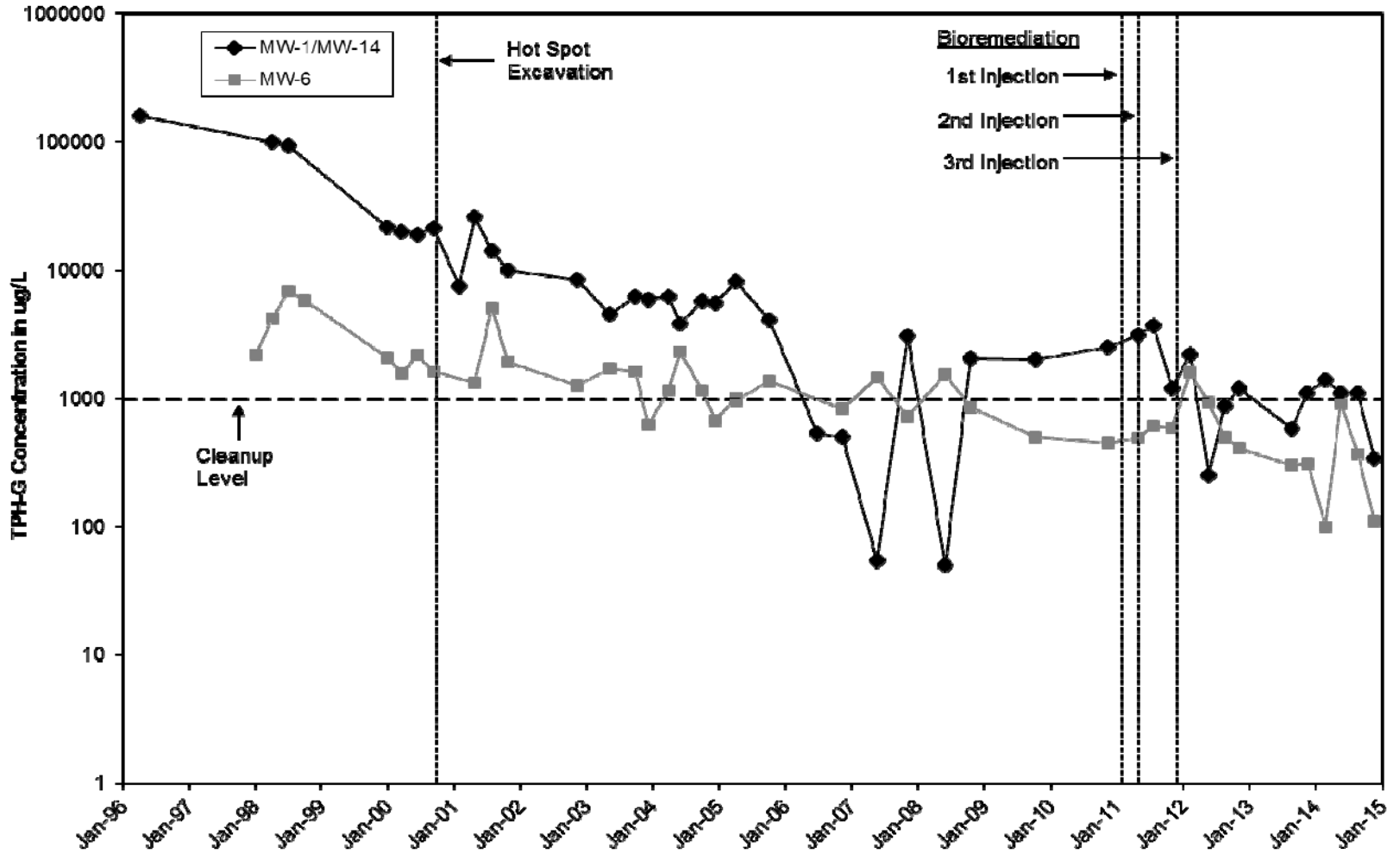
7168-10 1/15

HARTCROWSER

Figure
5

EAL 01/7/15 716810-013.dwg

This page is intentionally left blank
for double-sided printing.



Ken's Auto Wash
Ellensburg, Washington

Long-Term Trends in TPH-G
Concentrations in Groundwater

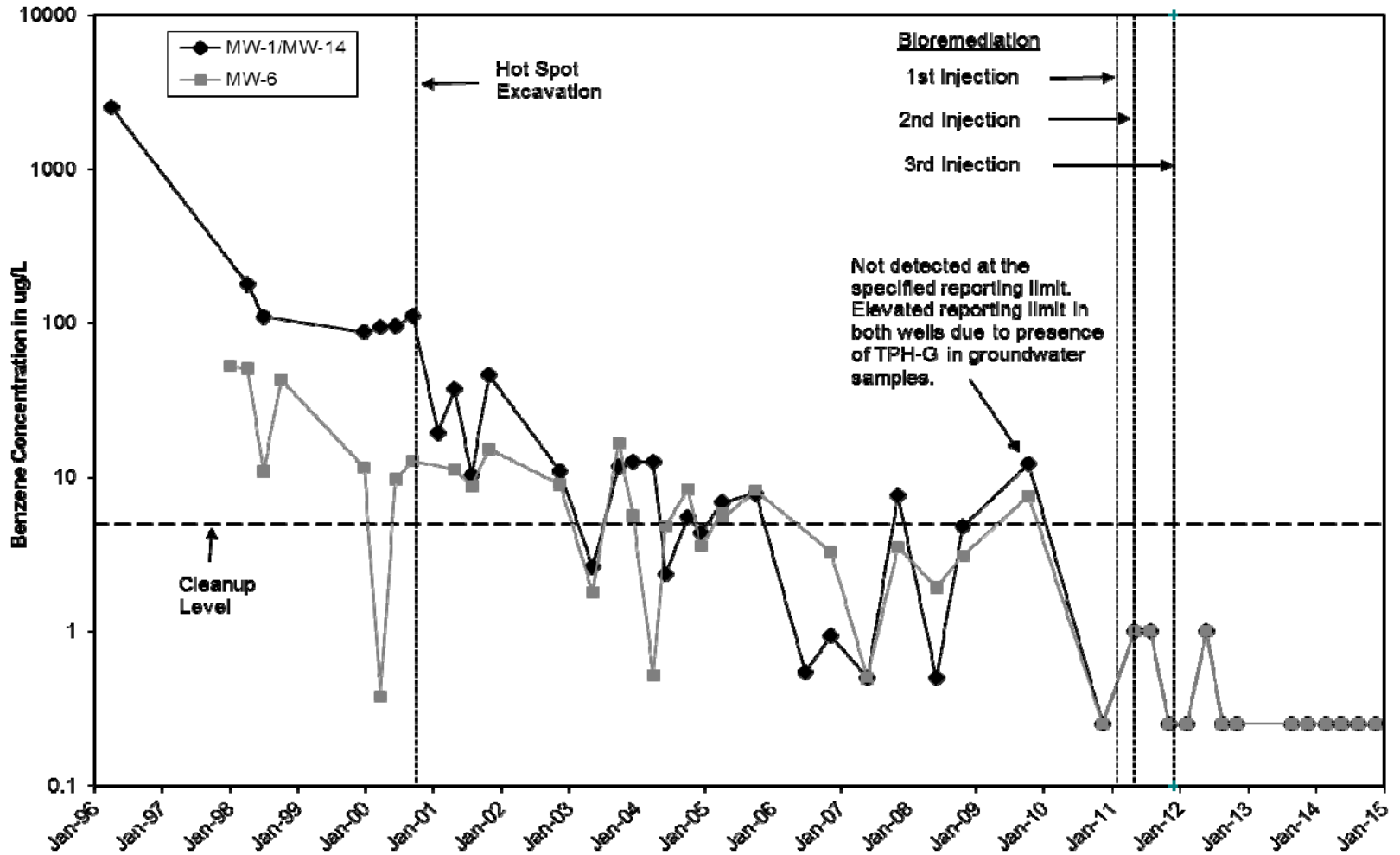
7168-10 1/15



HARTCROWNSER

Figure 6

This page is intentionally left blank
for double-sided printing.



This page is intentionally left blank
for double-sided printing.

APPENDIX A
Chemical Data Quality Review and Laboratory Report

This page is intentionally left blank
for double-sided printing.

APPENDIX A

CHEMICAL DATA QUALITY REVIEW AND LABORATORY REPORT

Chemical Data Quality Review

Groundwater sampling was conducted in August and November 2013, and February, May, August, and November 2014. The samples were submitted to Analytical Resources, Inc. (ARI) in Tukwila, Washington, for chemical analysis. Groundwater samples were analyzed for the following:

- BTEX (EPA Method 8021B);
- Gasoline-range hydrocarbons (NWTPH-G); and
- Nitrate, sulfate, bromide, and chloride (EPA Method 300.0).

The reported results and the associated quality assurance sample results were reviewed. The following criteria were evaluated in the standard validation process:

- Holding times;
- Method blanks;
- Surrogate recoveries;
- Matrix spike and matrix spike duplicate recovery (MS/MSD);
- Laboratory control samples and laboratory control sample duplicate recovery (LCS/LCSD); and
- Laboratory duplicate, MS/MSD, and LCS/LCSD relative percent differences (RPDs).

All data are acceptable for use as reported. Details for the quarterly sampling events are described below.

August 2013

Four groundwater samples and one trip blank were collected on August 27, 2013.

The required holding times were met for the analyses. No method blank or trip blank contamination was detected. Surrogate, MS/MSD, and LCS/LCSD recoveries were within laboratory control limits. Laboratory duplicate, MS/MSD, and LCS/LCSD RPDs were acceptable.

The samples were received at the laboratory with temperatures above the method recommended temperature of 2° to 6° C. Due to the temperature exceedance, results for the volatile compounds (BTEX and gasoline) and nitrate were qualified as estimated (J). Results for sulfate were not qualified, as the temperature exceedance would not significantly affect the analytical results.

The data are acceptable for use with qualification due to the temperature exceedance.

November 2013

Eight groundwater samples, one field duplicate, and one trip blank were collected on November 19 and 20, 2013.

The required holding times were met for the analyses. No method blank or trip blank contamination was detected. Surrogate, MS/MSD, and LCS/LCSD recoveries were within laboratory control limits. Laboratory duplicate, field duplicate, MS/MSD, and LCS/LCSD RPDs were acceptable.

The sample container labels did not match the sample identification on the Chain of Custody. The samples were reported by the laboratory using the identification on the Chain of Custody, which matched historical sample names.

The data are acceptable for use as reported.

February 2014

Four groundwater samples and one trip blank were collected on February 27, 2014.

The required holding times were met for the analyses. No method blank or trip blank contamination was detected. Surrogate, MS/MSD, and LCS/LCSD recoveries were within laboratory control limits. Laboratory duplicate, MS/MSD, and LCS/LCSD RPDs were acceptable.

Sample MW-4R: The Chain of Custody listed the sample as MW-4, while the sample container labels identified the sample as MW-4R. The sample was reported by the laboratory using the identification on the sample labels, which matched the historical sample name.

The data are acceptable for use as reported.

May 2014

Four groundwater samples were collected on May 23, 2014.

The required holding times were met for the analyses. No method blank or trip blank contamination was detected. Surrogate, MS/MSD, and LCS/LCSD recoveries were within laboratory control limits. Laboratory duplicate, field duplicate, MS/MSD, and LCS/LCSD RPDs were acceptable.

The samples were received at the laboratory with temperatures above the method recommended temperature of 2° to 6° C. Due to the temperature exceedance, results for the volatile compounds (BTEX and gasoline) and nitrate were qualified as estimated (J). Results for sulfate were not qualified, as the temperature exceedance would not significantly affect the analytical results.

The data are acceptable for use with qualification due to the temperature exceedance.

August 2014

Four groundwater samples and one trip blank were collected on August 21, 2014.

The required holding times were met for the analyses. No method blank or trip blank contamination was detected. Surrogate, MS/MSD, and LCS/LCSD recoveries were within laboratory control limits. Laboratory duplicate, field duplicate, MS/MSD, and LCS/LCSD RPDs were acceptable.

The samples were received at the laboratory with temperatures above the method recommended temperature of 2° to 6° C. Due to the temperature exceedance, results for the volatile compounds (BTEX and gasoline) and nitrate were qualified as estimated (J). Results for sulfate were not qualified, as the temperature exceedance would not significantly affect the analytical results.

The data are acceptable for use with qualification due to the temperature exceedance.

November 2014

Eight groundwater samples, one field duplicate, and one trip blank were collected on November 20 and 21, 2013.

The required holding times were met for the analyses. No method blank or trip blank contamination was detected. Surrogate, MS/MSD, and LCS/LCSD recoveries were within laboratory control limits. Laboratory duplicate, MS/MSD, and LCS/LCSD RPDs were acceptable.

Field duplicate RPD: The RPD for nitrate in the field duplicate MW-14/MW-KA exceeded control limits. The results for nitrate in samples MW-14 and MW-KA were qualified as estimated (J).

Sample MW-4R: The Chain of Custody listed the sample as MW-4R, while the sample container labels identified the sample as MW-4. The sample was reported by the laboratory using the identification on the Chain of Custody, which matched the historical sample name.

The data are acceptable for use as reported.

This page is intentionally left blank
for double-sided printing.

Laboratory Report

This page is intentionally left blank
for double-sided printing.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 2, 2013

Angie Goodwin
Hart Crowser, Inc.
1700 Westlake Avenue N. Suite 200
Seattle, WA 98109-3256

RE: Client Project: Ken's Auto, 7168-10
ARI Job No.: XC65

Dear Angie:

Please find enclosed the original Chain-of-Custody record (COC), sample receipt documentation, and the final data for samples from the project referenced above. Analytical Resources, Inc. (ARI) received four water samples and one trip blank on August 28, 2013. The samples were received in good condition with a cooler temperature of 9.4°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for NWTPH-Gx plus BTEX and Anions, as requested on the COC.

There were no anomalies associated with the analyses.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Kelly Bottem".

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211
Enclosures

cc: eFile XC65



Cooler Receipt Form

ARI Client Hart Crowser

Project Name: Ken's Auto Wash

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: XC65

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 9.4

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: [Signature] Date: 8/28/13 Time: 1645 Temp Gun ID#: 122412224

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? NO YES

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____ NA YES NO

Were all bottles sealed in individual plastic bags? _____ YES NO

Did all bottles arrive in good condition (unbroken)? _____ YES NO

Were all bottle labels complete and legible? _____ YES NO

Did the number of containers listed on COC match with the number of containers received? _____ YES NO

Did all bottle labels and tags agree with custody papers? _____ YES NO

Were all bottles used correct for the requested analyses? _____ YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? _____ NA YES NO

Was sufficient amount of sample sent in each bottle? _____ YES 823 NO

Date VOC Trip Blank was made at ARI: _____ NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 8-29-13 Time: 747

**** Notify Project Manager of discrepancies or concerns ****

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
| | | | |
| | | | |
| | | | |

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

| | | | |
|--|--|--|-------------------|
| | | | Small → "sm" |
| | | | Peabubbles → "pb" |
| | | | Large → "lg" |
| | | | Headspace → "hs" |



Cooler Temperature Compliance Form

| Cooler#: | Temperature(°C): <u>9.4</u> | |
|------------------------------------|-----------------------------|-------------|
| Sample ID | Bottle Count | Bottle Type |
| <i>All samples out of temp</i> | | |
| | | |
| | | |
| | | |
| | | |

| Cooler#: | Temperature(°C): | |
|-----------|------------------|-------------|
| Sample ID | Bottle Count | Bottle Type |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Cooler#: | Temperature(°C): | |
|-----------|------------------|-------------|
| Sample ID | Bottle Count | Bottle Type |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Cooler#: | Temperature(°C): | |
|-----------|------------------|-------------|
| Sample ID | Bottle Count | Bottle Type |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Completed by *J. J. Boh* Date *9/2/13* Time *12:16*

Sample ID Cross Reference Report



ARI Job No: XC65
Client: Hart Crowser Inc.
Project Event: 7168-10
Project Name: Ken's Auto Wash

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|----------------|------------|-------------|--------|------------------|----------------|
| 1. MW-4R | XC65A | 13-17940 | Water | 08/27/13 16:05 | 08/28/13 17:35 |
| 2. MW-14 | XC65B | 13-17941 | Water | 08/27/13 15:13 | 08/28/13 17:35 |
| 3. MW-6 | XC65C | 13-17942 | Water | 08/27/13 14:05 | 08/28/13 17:35 |
| 4. MW-13 | XC65D | 13-17943 | Water | 08/27/13 12:55 | 08/28/13 17:35 |
| 5. Trip Blanks | XC65E | 13-17944 | Water | 08/27/13 | 08/28/13 17:35 |

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-4R
SAMPLE

Lab Sample ID: XC65A

LIMS ID: 13-17940

Matrix: Water

Data Release Authorized: *mmw*

Reported: 08/30/13

QC Report No: XC65-Hart Crowser Inc.

Project: Ken's Auto Wash

Event: 7168-10

Date Sampled: 08/27/13

Date Received: 08/28/13

Date Analyzed: 08/29/13 17:39

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|-----------------------------|------|----------|---------------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |
|-----------------------------|------|----------|---------------|

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 106% |
| Bromobenzene | 108% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 106% |
| Bromobenzene | 104% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-14
SAMPLE

Lab Sample ID: XC65B
LIMS ID: 13-17941
Matrix: Water
Data Release Authorized: *MMW*
Reported: 08/30/13

QC Report No: XC65-Hart Crowser Inc.
Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

Date Analyzed: 08/29/13 18:08
Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-----------------|---------------------|-------------|-------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | 0.26 |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|------------------------------------|-------------|-------------|---------------|
| Gasoline Range Hydrocarbons | 0.10 | 0.58 | GAS ID GRO |
|------------------------------------|-------------|-------------|---------------|

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 105% |
| Bromobenzene | 104% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 105% |
| Bromobenzene | 103% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-6

SAMPLE

Lab Sample ID: XC65C

LIMS ID: 13-17942

Matrix: Water

Data Release Authorized: *MW*

Reported: 08/30/13

QC Report No: XC65-Hart Crowser Inc.

Project: Ken's Auto Wash

Event: 7168-10

Date Sampled: 08/27/13

Date Received: 08/28/13

Date Analyzed: 08/29/13 18:36

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|------------------------------------|-------------|-------------|------------|
| Gasoline Range Hydrocarbons | 0.10 | 0.30 | GAS ID |
| | | | GRO |

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 105% |
| Bromobenzene | 102% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 104% |
| Bromobenzene | 101% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-13
SAMPLE

Lab Sample ID: XC65D
LIMS ID: 13-17943
Matrix: Water
Data Release Authorized: *MW*
Reported: 08/30/13

QC Report No: XC65-Hart Crowser Inc.
Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

Date Analyzed: 08/29/13 19:04
Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|-----------------------------|------|----------|------------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |
|-----------------------------|------|----------|------------|

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 105% |
| Bromobenzene | 104% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 105% |
| Bromobenzene | 102% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: Trip Blanks
SAMPLE

Lab Sample ID: XC65E
LIMS ID: 13-17944
Matrix: Water
Data Release Authorized: *MW*
Reported: 08/30/13

QC Report No: XC65-Hart Crowser Inc.
Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

Date Analyzed: 08/29/13 15:47
Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 111% |
| Bromobenzene | 106% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 108% |
| Bromobenzene | 105% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-082913

METHOD BLANK

Lab Sample ID: MB-082913

LIMS ID: 13-17940

Matrix: Water

Data Release Authorized: *mmw*

Reported: 08/30/13

QC Report No: XC65-Hart Crowser Inc.

Project: Ken's Auto Wash

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed: 08/29/13 15:01

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | |
|-------------|-----------------------------|------|----------|------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 102% |
| Bromobenzene | 103% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 103% |
| Bromobenzene | 103% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: XC65
Matrix: Water

QC Report No: XC65-Hart Crowser Inc.
Project: Ken's Auto Wash
Event: 7168-10

| <u>Client ID</u> | <u>TFT</u> | <u>BBZ</u> | <u>TOT OUT</u> |
|------------------|------------|------------|----------------|
| MB-082913 | 102% | 103% | 0 |
| LCS-082913 | 111% | 110% | 0 |
| LCSD-082913 | 109% | 111% | 0 |
| MW-4R | 106% | 108% | 0 |
| MW-14 | 105% | 104% | 0 |
| MW-6 | 105% | 102% | 0 |
| MW-13 | 105% | 104% | 0 |
| Trip Blanks | 111% | 106% | 0 |

| | | <u>LCS/MB LIMITS</u> | <u>QC LIMITS</u> |
|--------------------------|------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (5 mL PV) | (80-120) | (80-120) |
| (TFT) = Trifluorotoluene | (15 mL PV) | (79-120) | (80-120) |
| (BBZ) = Bromobenzene | (5 mL PV) | (80-120) | (77-120) |
| (BBZ) = Bromobenzene | (15 mL PV) | (79-120) | (80-120) |

Log Number Range: 13-17940 to 13-17944

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: XC65
Matrix: Water

QC Report No: XC65-Hart Crowser Inc.
Project: Ken's Auto Wash
Event: 7168-10

| <u>Client ID</u> | <u>TFT</u> | <u>BBZ</u> | <u>TOT</u> | <u>OUT</u> |
|------------------|------------|------------|------------|------------|
| MB-082913 | 103% | 103% | 0 | |
| LCS-082913 | 111% | 114% | 0 | |
| LCSD-082913 | 112% | 118% | 0 | |
| MW-4R | 106% | 104% | 0 | |
| MW-14 | 105% | 103% | 0 | |
| MW-6 | 104% | 101% | 0 | |
| MW-13 | 105% | 102% | 0 | |
| Trip Blanks | 108% | 105% | 0 | |

| | LCS/MB LIMITS | QC LIMITS |
|--------------------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (80-120) | (80-120) |
| (BBZ) = Bromobenzene | (80-120) | (80-120) |

Log Number Range: 13-17940 to 13-17944

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-082913

LAB CONTROL SAMPLE

Lab Sample ID: LCS-082913
 LIMS ID: 13-17940
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 08/30/13

QC Report No: XC65-Hart Crowser Inc.
 Project: Ken's Auto Wash
 Event: 7168-10
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 08/29/13 14:04
 LCSD: 08/29/13 14:32
 Instrument/Analyst LCS: PID3/PKC
 LCSD: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

| Analyte | LCS | Spike | LCS | LCSD | Spike | LCSD | RPD |
|--------------|------|-----------|----------|------|------------|----------|------|
| | | Added-LCS | Recovery | | Added-LCSD | Recovery | |
| Benzene | 2.26 | 2.10 | 108% | 2.19 | 2.10 | 104% | 3.1% |
| Toluene | 33.5 | 34.8 | 96.3% | 33.0 | 34.8 | 94.8% | 1.5% |
| Ethylbenzene | 16.6 | 17.4 | 95.4% | 16.3 | 17.4 | 93.7% | 1.8% |
| m,p-Xylene | 61.0 | 62.7 | 97.3% | 60.0 | 62.7 | 95.7% | 1.7% |
| o-Xylene | 31.5 | 34.6 | 91.0% | 31.4 | 34.6 | 90.8% | 0.3% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

| | LCS | LCSD |
|------------------|------|------|
| Trifluorotoluene | 111% | 109% |
| Bromobenzene | 110% | 111% |



ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-082913

LAB CONTROL SAMPLE

Lab Sample ID: LCS-082913
LIMS ID: 13-17940
Matrix: Water
Data Release Authorized: *mmw*
Reported: 08/30/13

QC Report No: XC65-Hart Crowser Inc.
Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/29/13 14:04
LCSD: 08/29/13 14:32
Instrument/Analyst LCS: PID3/PKC
LCSD: PID3/PKC

Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|-----------------------------|------|-----------------|--------------|------|------------------|---------------|------|
| Gasoline Range Hydrocarbons | 2.66 | 2.50 | 106% | 2.64 | 2.50 | 106% | 0.8% |

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCSD |
|------------------|------|------|
| Trifluorotoluene | 111% | 112% |
| Bromobenzene | 114% | 118% |

SAMPLE RESULTS-CONVENTIONALS
XC65-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 08/30/13

A handwritten signature in black ink, appearing to be 'JK', written over the 'Data Release Authorized' text.

Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

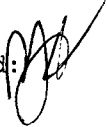
Client ID: MW-4R
ARI ID: 13-17940 XC65A

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 08/28/13 082813#1 | EPA 300.0 | mg-N/L | 0.1 | 0.3 |
| Sulfate | 08/29/13 082913#1 | EPA 300.0 | mg/L | 0.2 | 5.8 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XC65-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/30/13

Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

Client ID: MW-14
ARI ID: 13-17941 XC65B

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 08/28/13 082813#1 | EPA 300.0 | mg-N/L | 0.1 | 0.9 |
| Sulfate | 08/29/13 082913#1 | EPA 300.0 | mg/L | 2.0 | 73.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XC65-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 08/30/13

A handwritten signature in black ink, appearing to be 'J. Crowser', is written over the 'Data Release Authorized' text.

Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

Client ID: MW-6
ARI ID: 13-17942 XC65C

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| N-Nitrate | 08/28/13 082813#1 | EPA 300.0 | mg-N/L | 0.1 | < 0.1 U |
| Sulfate | 08/28/13 082813#1 | EPA 300.0 | mg/L | 0.1 | 1.4 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XC65-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 08/30/13

A handwritten signature in black ink, appearing to be a stylized name or initials.

Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

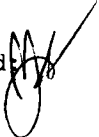
Client ID: MW-13
ARI ID: 13-17943 XC65D

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 08/28/13 082813#1 | EPA 300.0 | mg-N/L | 0.1 | 0.3 |
| Sulfate | 08/28/13 082813#1 | EPA 300.0 | mg/L | 0.1 | 3.1 |

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
XC65-Hart Crowser Inc.




Matrix: Water
Data Release Authorized: 
Reported: 08/30/13

Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | Blank | ID |
|-----------|-----------|----------------------|--------|--------------------|----|
| N-Nitrate | EPA 300.0 | 08/28/13 | mg-N/L | < 0.1 U | |
| Sulfate | EPA 300.0 | 08/28/13 08/29/13 | mg/L | < 0.1 U < 0.1 U | |

STANDARD REFERENCE RESULTS-CONVENTIONALS
XC65-Hart Crowser Inc.



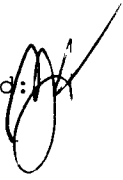
Matrix: Water
Data Release Authorized: 
Reported: 08/30/13

Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|--------------------------|-----------|----------------------|--------|------------|------------|------------------|
| N-Nitrate ERA #220912 | EPA 300.0 | 08/28/13 | mg-N/L | 3.1 | 3.0 | 103.3% |
| Sulfate ERA 240312 | EPA 300.0 | 08/28/13 08/29/13 | mg/L | 3.0 3.0 | 3.0 3.0 | 100.0% 100.0% |

REPLICATE RESULTS-CONVENTIONALS
XC65-Hart Crowser Inc.




Matrix: Water
Data Release Authorized: 
Reported: 08/30/13

Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

| Analyte | Method | Date | Units | Sample | Replicate(s) | RPD/RSD |
|--------------------------------|-----------|----------|--------|--------|--------------|---------|
| ARI ID: XC65A Client ID: MW-4R | | | | | | |
| N-Nitrate | EPA 300.0 | 08/28/13 | mg-N/L | 0.3 | 0.3 | 0.0% |
| Sulfate | EPA 300.0 | 08/29/13 | mg/L | 5.8 | 5.8 | 0.0% |

MS/MSD RESULTS-CONVENTIONALS
XC65-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/30/13

Project: Ken's Auto Wash
Event: 7168-10
Date Sampled: 08/27/13
Date Received: 08/28/13

| Analyte | Method | Date | Units | Sample | Spike | Spike Added | Recovery |
|--------------------------------|-----------|----------|--------|--------|-------|-------------|----------|
| ARI ID: XC65A Client ID: MW-4R | | | | | | | |
| N-Nitrate | EPA 300.0 | 08/28/13 | mg-N/L | 0.3 | 2.4 | 2.0 | 105.0% |
| Sulfate | EPA 300.0 | 08/29/13 | mg/L | 5.8 | 9.8 | 4.0 | 100.0% |



Analytical Resources, Incorporated
Analytical Chemists and Consultants

December 9, 2013

Angie Goodwin
Hart Crowser, Inc.
1700 Westlake Avenue N. Suite 200
Seattle, WA 98109-3256

RE: Client Project: Ken's Auto, 7168-11
ARI Job No.: XP00

Dear Angie:

Please find enclosed the original Chain-of-Custody record (COC), sample receipt documentation, and the final data for samples from the project referenced above. Analytical Resources, Inc. (ARI) received nine water samples and one trip blank on November 20, 2013. The samples were received in good condition with a cooler temperature of 3.4°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for NWTPH-Gx plus BTEX, total lead and Anions, as requested on the COC.

There were no anomalies associated with the analyses.

Sincerely,
ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Kelly Bottem".

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211
Enclosures

cc: eFile XP00



Cooler Receipt Form

ARI Client Hart Crowsey

Project Name Ken's Auto

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: XP00 (NA)

Tracking No. _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? ... YES NO

Were custody papers properly filled out (ink, signed, etc.) ... YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)
Time: 1453 34 Temp Gun ID# 90877952

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: A Date: 11/20/13 Time: 1453

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? ... YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? ... NA YES NO

Were all bottles sealed in individual plastic bags? ... YES NO

Did all bottles arrive in good condition (unbroken)? ... YES NO

Were all bottle labels complete and legible? ... YES NO

Did the number of containers listed on COC match with the number of containers received? ... YES NO

Did all bottle labels and tags agree with custody papers? ... YES NO

Were all bottles used correct for the requested analyses? ... YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? ... NA YES NO

Was sufficient amount of sample sent in each bottle? ... YES NO

Date VOC Trip Blank was made at ARI ... NA 11/18/13

Was Sample Split by ARI: YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by JM Date: 11/20/13 Time: 1631

**** Notify Project Manager of discrepancies or concerns ****

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
| | | | |
| | | | |
| | | | |

Additional Notes, Discrepancies, & Resolutions:
All sample ID's have "HC-" at the beginning on containers

By: JM Date: 11/20/13

| | | | |
|--|--|--|---------------------------------|
| | | | Small → "sm" (< 2 mm) |
| | | | Peabubbles → "pb" (2 to < 4 mm) |
| | | | Large → "lg" (4 to < 6 mm) |
| | | | Headspace → "hs" (> 6 mm) |



ARI Job No: XP00
PC: Kelly
VTSR: 11/20/13

Inquiry Number: NONE
Analysis Requested: 11/20/13
Contact: Goodwin, Angie
Client: Hart Crowser Inc.
Logged by: JM
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

Project #: 7168-11
Project: Kens Auto
Sample Site:
SDG No:
Analytical Protocol: In-house

| LOGNUM ARI ID | CLIENT ID | CN >12 | WAD >12 | NH3 <2 | COD <2 | FOG <2 | MET <2 | PHEN <2 | PHOS <2 | TKN <2 | NO23 <2 | TOC <2 | S2 >9 | TPHD <2 | Fe2+ <2 | DMET DOC FLT FLT | ADJUSTED TO | LOT NUMBER | AMOUNT ADDED | DATE/BY |
|-------------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|------------|-----------|------------|-----------|----------|------------|------------|---------------------|----------------|---------------|-----------------|---------|
| 13-25772 XP00A | MW-4R | | | | | | P | | | | | | | | | | | | | |
| 13-25773 XP00B | MW-3 | | | | | | P | | | | | | | | | | | | | |
| 13-25774 XP00C | MW-2 | | | | | | P | | | | | | | | | | | | | |
| 13-25775 XP00D | MW-5 | | | | | | P | | | | | | | | | | | | | |
| 13-25776 XP00E | MW-14 | | | | | | P | | | | | | | | | | | | | |
| 13-25777 XP00F | MW-KA | | | | | | P | | | | | | | | | | | | | |
| 13-25778 XP00G | MW-6 | | | | | | P | | | | | | | | | | | | | |
| 13-25779 XP00H | MW-13 | | | | | | P | | | | | | | | | | | | | |
| 13-25780 XP00I | MW-15 | | | | | | P | | | | | | | | | | | | | |

P=Pass

XP00 : 00004

Checked By JM Date 11/20/13

Sample ID Cross Reference Report



ARI Job No: XP00
Client: Hart Crowser Inc.
Project Event: 7168-11
Project Name: Kens Auto

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|-----------|------------|-------------|--------|------------------|----------------|
| 1. MW-4R | XP00A | 13-25772 | Water | 11/19/13 12:17 | 11/20/13 14:53 |
| 2. MW-3 | XP00B | 13-25773 | Water | 11/19/13 09:45 | 11/20/13 14:53 |
| 3. MW-2 | XP00C | 13-25774 | Water | 11/19/13 13:30 | 11/20/13 14:53 |
| 4. MW-5 | XP00D | 13-25775 | Water | 11/19/13 14:35 | 11/20/13 14:53 |
| 5. MW-14 | XP00E | 13-25776 | Water | 11/19/13 11:15 | 11/20/13 14:53 |
| 6. MW-KA | XP00F | 13-25777 | Water | 11/20/13 12:10 | 11/20/13 14:53 |
| 7. MW-6 | XP00G | 13-25778 | Water | 11/20/13 11:40 | 11/20/13 14:53 |
| 8. MW-13 | XP00H | 13-25779 | Water | 11/20/13 09:57 | 11/20/13 14:53 |
| 9. MW-15 | XP00I | 13-25780 | Water | 11/20/13 10:50 | 11/20/13 14:53 |
| 10. TB | XP00J | 13-25781 | Water | 11/19/13 | 11/20/13 14:53 |



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification”
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value “calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria”
(Dioxin/Furan analysis only)
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers.
(Dioxin/Furan analysis only)
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-112213

METHOD BLANK

Lab Sample ID: MB-112213

LIMS ID: 13-25772

Matrix: Water

Data Release Authorized: *MMW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: NA

Date Received: NA

Date Analyzed: 11/22/13 11:59

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|-----------------------------|------|----------|---------------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |
|-----------------------------|------|----------|---------------|

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 98.8% |
| Bromobenzene | 95.2% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 95.4% |
| Bromobenzene | 88.0% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-4R
SAMPLE

Lab Sample ID: XP00A

LIMS ID: 13-25772

Matrix: Water

Data Release Authorized: *YWW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: 11/19/13

Date Received: 11/20/13

Date Analyzed: 11/22/13 19:02

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.2% |
| Bromobenzene | 93.0% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 93.7% |
| Bromobenzene | 90.2% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-3

SAMPLE

Lab Sample ID: XP00B

LIMS ID: 13-25773

Matrix: Water

Data Release Authorized: *MW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: 11/19/13

Date Received: 11/20/13

Date Analyzed: 11/22/13 19:31

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | RL | Result | GAS ID |
|-----------------------------|------|----------|--------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 95.8% |
| Bromobenzene | 92.2% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 92.8% |
| Bromobenzene | 89.7% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-2

SAMPLE

Lab Sample ID: XP00C

LIMS ID: 13-25774

Matrix: Water

Data Release Authorized: *TNW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: 11/19/13

Date Received: 11/20/13

Date Analyzed: 11/22/13 20:00

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | RL | Result | GAS ID |
|-----------------------------|------|----------|--------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 96.1% |
| Bromobenzene | 92.5% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 93.6% |
| Bromobenzene | 89.2% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-5

SAMPLE

Lab Sample ID: XP00D

LIMS ID: 13-25775

Matrix: Water

Data Release Authorized: *Thw*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: 11/19/13

Date Received: 11/20/13

Date Analyzed: 11/22/13 20:30

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|-----------------------------|------|----------|---------------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |
|-----------------------------|------|----------|---------------|

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 95.8% |
| Bromobenzene | 91.9% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 93.6% |
| Bromobenzene | 89.7% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-14
SAMPLE

Lab Sample ID: XP00E

LIMS ID: 13-25776

Matrix: Water

Data Release Authorized: *MW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: 11/19/13

Date Received: 11/20/13

Date Analyzed: 11/22/13 20:59

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-----------------|---------------------|-------------|-------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | 0.49 |
| 100-41-4 | Ethylbenzene | 0.25 | 1.3 |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|------------------------------------|-------------|------------|---------------|
| Gasoline Range Hydrocarbons | 0.10 | 1.1 | GAS ID |
| | | | GAS |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 98.4% |
| Bromobenzene | 96.3% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 96.9% |
| Bromobenzene | 91.7% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-KA
SAMPLE

Lab Sample ID: XP00F

LIMS ID: 13-25777

Matrix: Water

Data Release Authorized: *TW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: 11/20/13

Date Received: 11/20/13

Date Analyzed: 11/22/13 21:28

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|------------------------------------|-------------|-------------|-----------------------|
| Gasoline Range Hydrocarbons | 0.10 | 0.28 | GAS ID GAS |
|------------------------------------|-------------|-------------|-----------------------|

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.5% |
| Bromobenzene | 93.4% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 95.8% |
| Bromobenzene | 89.8% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-6
 SAMPLE

Lab Sample ID: XP00G
 LIMS ID: 13-25778
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.
 Project: Kens Auto
 Event: 7168-11
 Date Sampled: 11/20/13
 Date Received: 11/20/13

Date Analyzed: 11/22/13 21:57
 Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

Gasoline Range Hydrocarbons 0.10 0.31 GAS ID
 GAS

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.0% |
| Bromobenzene | 92.6% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 94.9% |
| Bromobenzene | 89.3% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-13
SAMPLE

Lab Sample ID: XP00H

LIMS ID: 13-25779

Matrix: Water

Data Release Authorized: *MMW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: 11/20/13

Date Received: 11/20/13

Date Analyzed: 11/22/13 23:25

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 96.2% |
| Bromobenzene | 94.0% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 92.5% |
| Bromobenzene | 90.7% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-15

SAMPLE

Lab Sample ID: XP00I

LIMS ID: 13-25780

Matrix: Water

Data Release Authorized: *MW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: 11/20/13

Date Received: 11/20/13

Date Analyzed: 11/22/13 23:54

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | RL | Result | GAS ID |
|-----------------------------|------|----------|--------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 94.3% |
| Bromobenzene | 91.8% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 92.2% |
| Bromobenzene | 89.1% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TB
SAMPLE

Lab Sample ID: XP00J
LIMS ID: 13-25781
Matrix: Water
Data Release Authorized: *mm*
Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
Event: 7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

Date Analyzed: 11/23/13 00:23
Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 95.2% |
| Bromobenzene | 92.7% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 92.9% |
| Bromobenzene | 90.2% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-112213

LAB CONTROL SAMPLE

Lab Sample ID: LCS-112213

LIMS ID: 13-25772

Matrix: Water

Data Release Authorized: *MW*

Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

Event: 7168-11

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/22/13 11:00

LCS D: 11/22/13 11:29

Instrument/Analyst LCS: PID1/PKC

LCS D: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCS D: 1.0

| Analyte | LCS | LCS | | LCS D | LCS D | | RPD |
|--------------|------|-------------|----------|-------|-------------|----------|------|
| | | Spike Added | Recovery | | Spike Added | Recovery | |
| Benzene | 2.01 | 2.10 | 95.7% | 1.96 | 2.10 | 93.3% | 2.5% |
| Toluene | 36.3 | 34.8 | 104% | 34.9 | 34.8 | 100% | 3.9% |
| Ethylbenzene | 17.7 | 17.4 | 102% | 17.0 | 17.4 | 97.7% | 4.0% |
| m,p-Xylene | 62.6 | 62.7 | 99.8% | 60.4 | 62.7 | 96.3% | 3.6% |
| o-Xylene | 34.0 | 34.6 | 98.3% | 32.7 | 34.6 | 94.5% | 3.9% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

| | LCS | LCS D |
|------------------|-------|-------|
| Trifluorotoluene | 109% | 104% |
| Bromobenzene | 99.3% | 97.4% |

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-112213

LAB CONTROL SAMPLE

Lab Sample ID: LCS-112213
 LIMS ID: 13-25772
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 11/27/13

QC Report No: XP00-Hart Crowser Inc.
 Project: Kens Auto
 Event: 7168-11
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 11/22/13 11:00
 LCSD: 11/22/13 11:29
 Instrument/Analyst LCS: PID1/PKC
 LCSD: PID1/PKC

Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

| Analyte | LCS | | LCS | | LCSD | | RPD |
|-----------------------------|------|-----------------|----------|------|------------------|----------|------|
| | LCS | Spike Added-LCS | Recovery | LCSD | Spike Added-LCSD | Recovery | |
| Gasoline Range Hydrocarbons | 2.27 | 2.50 | 90.8% | 2.21 | 2.50 | 88.4% | 2.7% |

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 109% | 105% |
| Bromobenzene | 94.5% | 91.6% |

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: XP00
Matrix: Water

QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
Event: 7168-11

| Client ID | TFT | BBZ | TOT OUT |
|------------------|------------|------------|----------------|
| MB-112213 | 98.8% | 95.2% | 0 |
| LCS-112213 | 109% | 99.3% | 0 |
| LCSD-112213 | 104% | 97.4% | 0 |
| MW-4R | 97.2% | 93.0% | 0 |
| MW-3 | 95.8% | 92.2% | 0 |
| MW-2 | 96.1% | 92.5% | 0 |
| MW-5 | 95.8% | 91.9% | 0 |
| MW-14 | 98.4% | 96.3% | 0 |
| MW-KA | 97.5% | 93.4% | 0 |
| MW-6 | 97.0% | 92.6% | 0 |
| MW-13 | 96.2% | 94.0% | 0 |
| MW-15 | 94.3% | 91.8% | 0 |
| TB | 95.2% | 92.7% | 0 |

LCS/MB LIMITS QC LIMITS

| | | | |
|--------------------------|------------|----------|----------|
| (TFT) = Trifluorotoluene | (5 mL PV) | (80-120) | (80-120) |
| (TFT) = Trifluorotoluene | (15 mL PV) | (79-120) | (80-120) |
| (BBZ) = Bromobenzene | (5 mL PV) | (80-120) | (77-120) |
| (BBZ) = Bromobenzene | (15 mL PV) | (79-120) | (80-120) |

Log Number Range: 13-25772 to 13-25781

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: XP00
Matrix: Water

QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
Event: 7168-11

| <u>Client ID</u> | <u>TFT</u> | <u>BBZ</u> | <u>TOT OUT</u> |
|------------------|------------|------------|----------------|
| MB-112213 | 95.4% | 88.0% | 0 |
| LCS-112213 | 109% | 94.5% | 0 |
| LCSD-112213 | 105% | 91.6% | 0 |
| MW-4R | 93.7% | 90.2% | 0 |
| MW-3 | 92.8% | 89.7% | 0 |
| MW-2 | 93.6% | 89.2% | 0 |
| MW-5 | 93.6% | 89.7% | 0 |
| MW-14 | 96.9% | 91.7% | 0 |
| MW-KA | 95.8% | 89.8% | 0 |
| MW-6 | 94.9% | 89.3% | 0 |
| MW-13 | 92.5% | 90.7% | 0 |
| MW-15 | 92.2% | 89.1% | 0 |
| TB | 92.9% | 90.2% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|--------------------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (80-120) | (80-120) |
| (BBZ) = Bromobenzene | (80-120) | (80-120) |

Log Number Range: 13-25772 to 13-25781

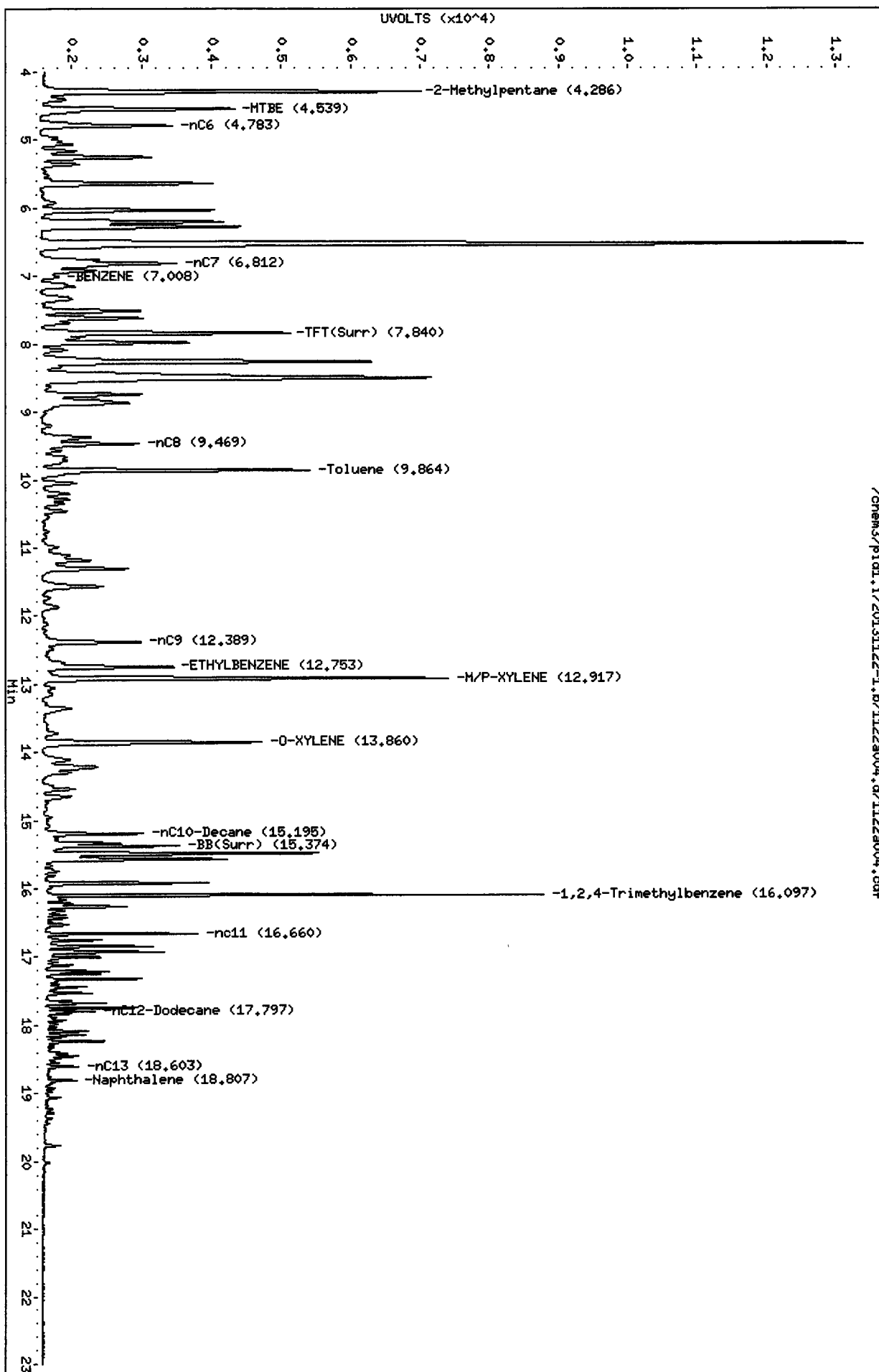
Data File: /chem3/pid1.i/20131122-1.b/1122a004.d
Date: 22-NOV-2013 11:00
Client ID:
Sample Info: LCS1122

Column phase: RTX 502-2 FID

/chem3/pid1.i/20131122-1.b/1122a004.d/1122a004.cdf

Instrument: pid1.i
Operator: PC
Column diameter: 0.18

Page 1



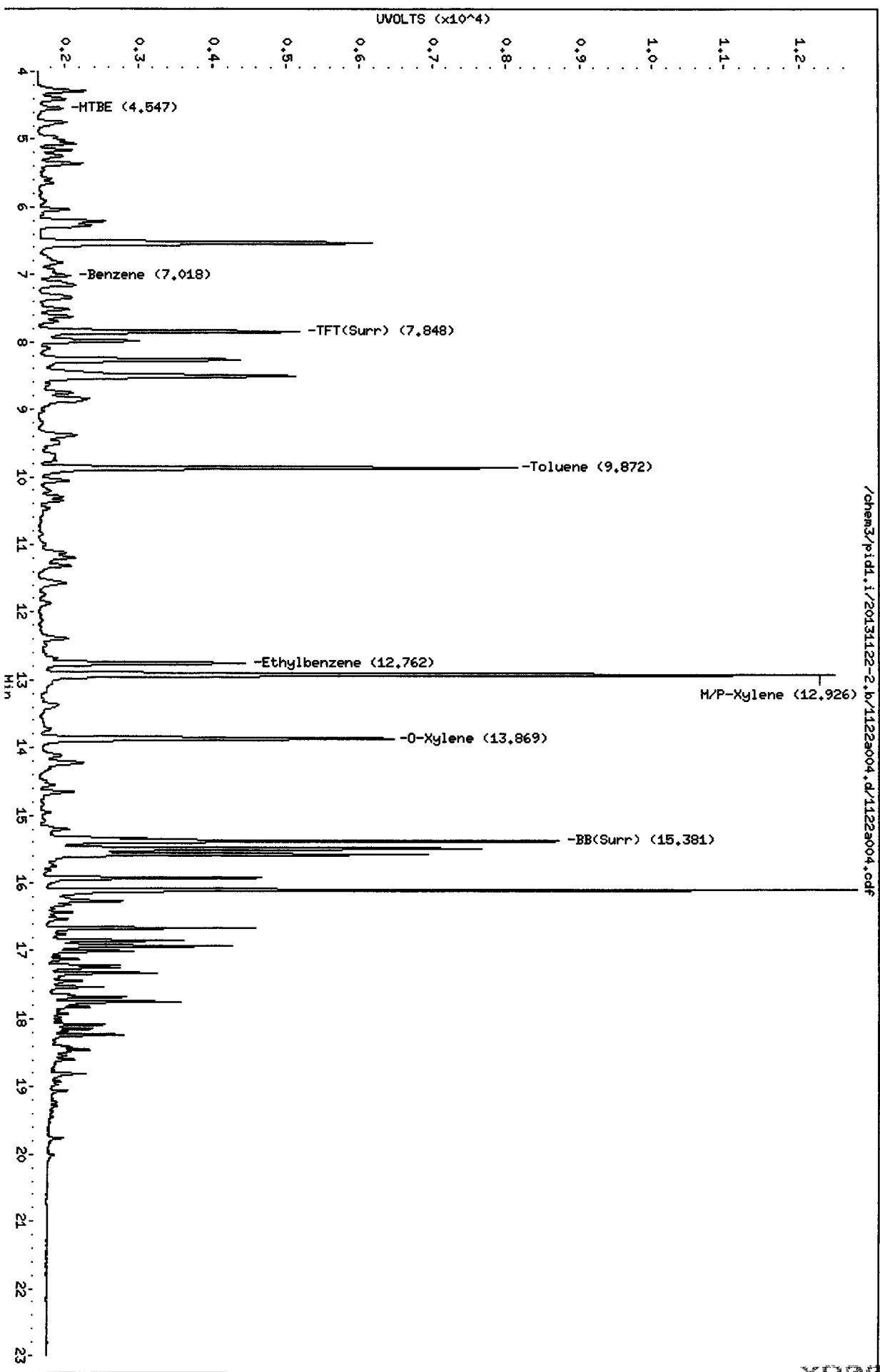
XP08 : 00024

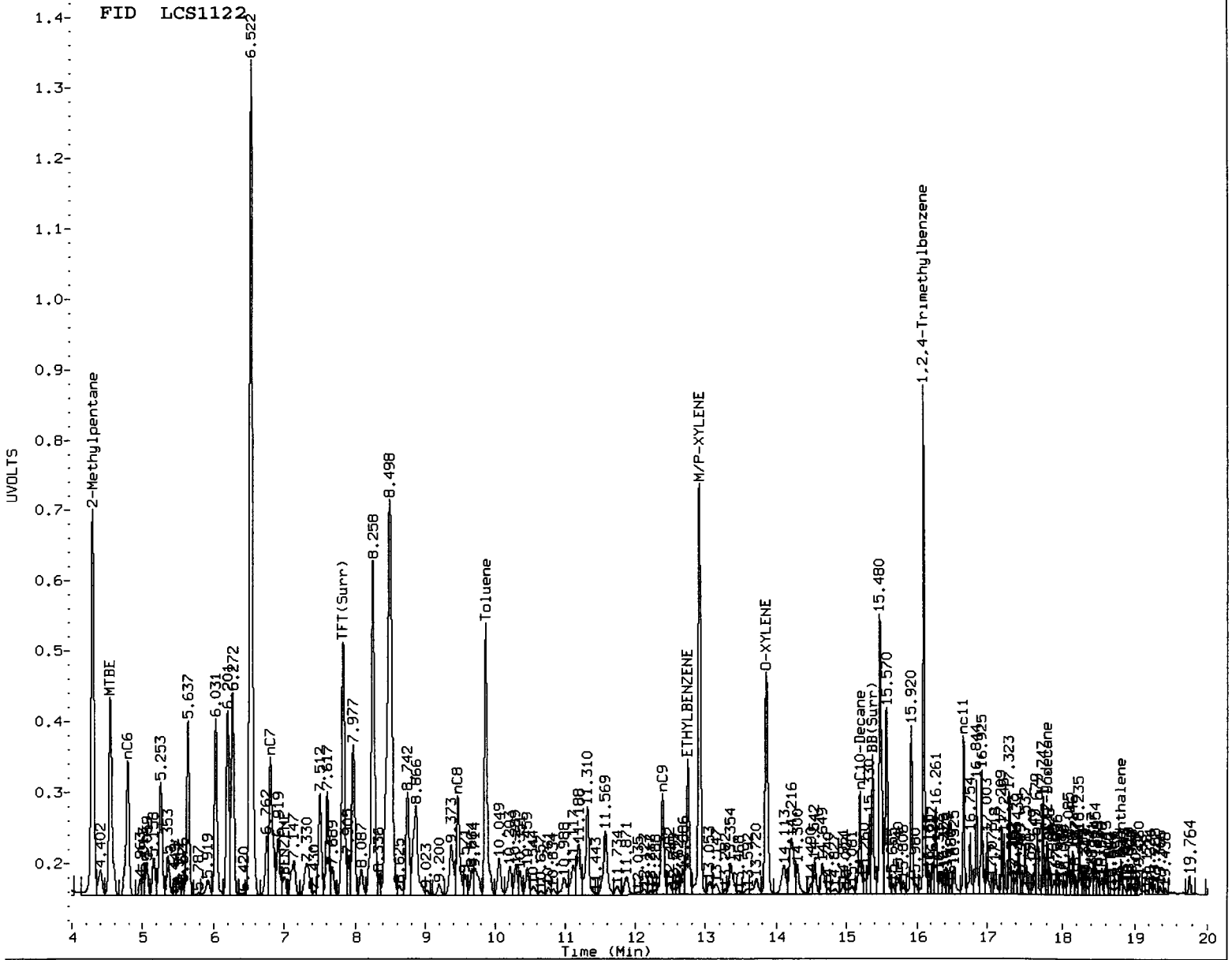
Data File: /chem3/pid1.i/20131122-2.b/1122a004.d
Date: 22-NOV-2013 11:00
Client ID:
Sample Info: LCS1122

Column phase: RTX 502-2 PID

/chem3/pid1.i/20131122-2.b/1122a004.d/1122a004.cdf

Instrument: pid1.i
Operator: PC
Column diameter: 0.18





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: PL Date: 11/26/13

Data File: /chem3/pid1.i/20131122-1.b/1122a005.d
Date : 22-NOV-2013 11:29

Client ID:

Sample Info: LCSDM122

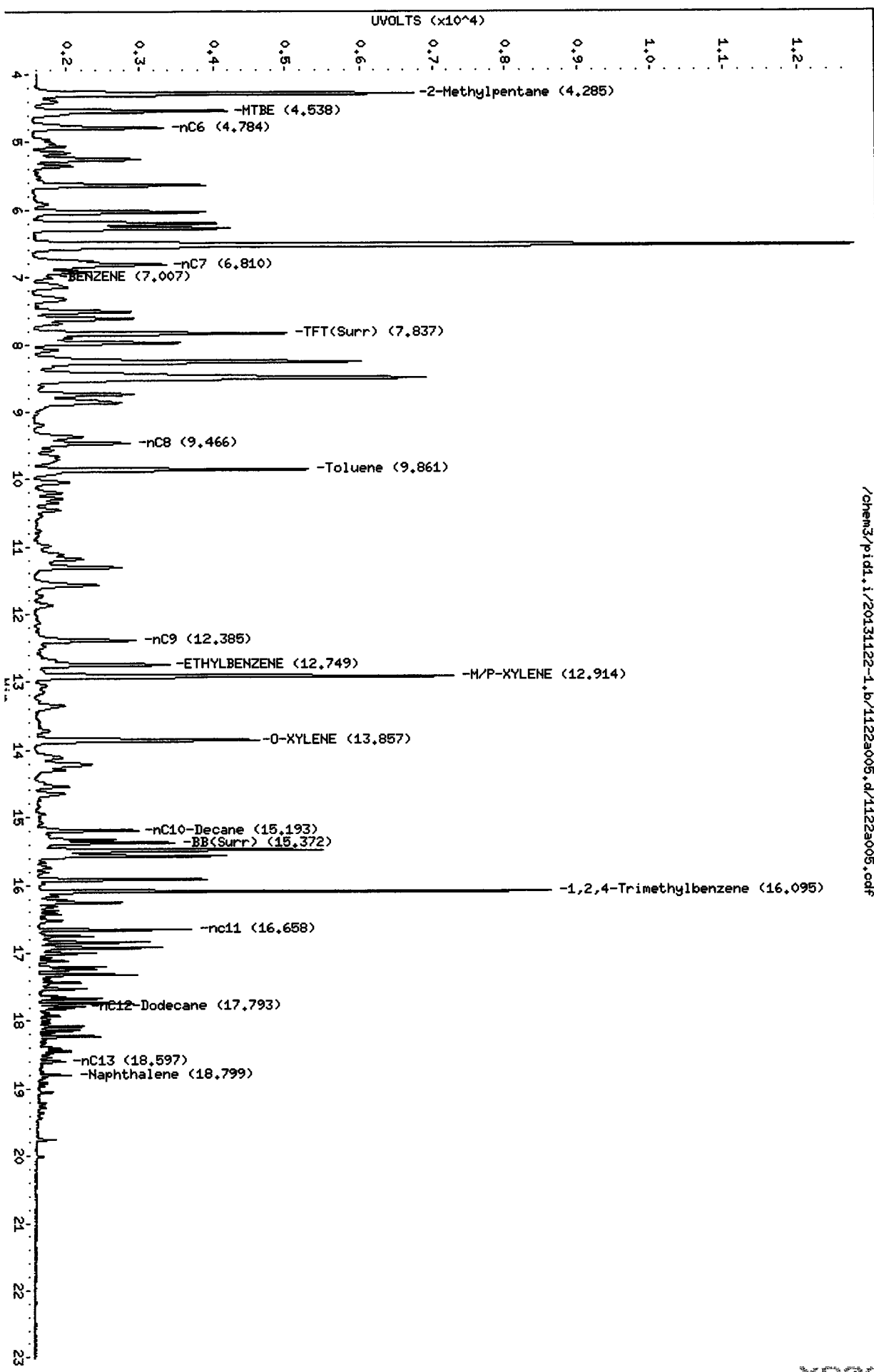
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

/chem3/pid1.i/20131122-1.b/1122a005.d/1122a005.odf

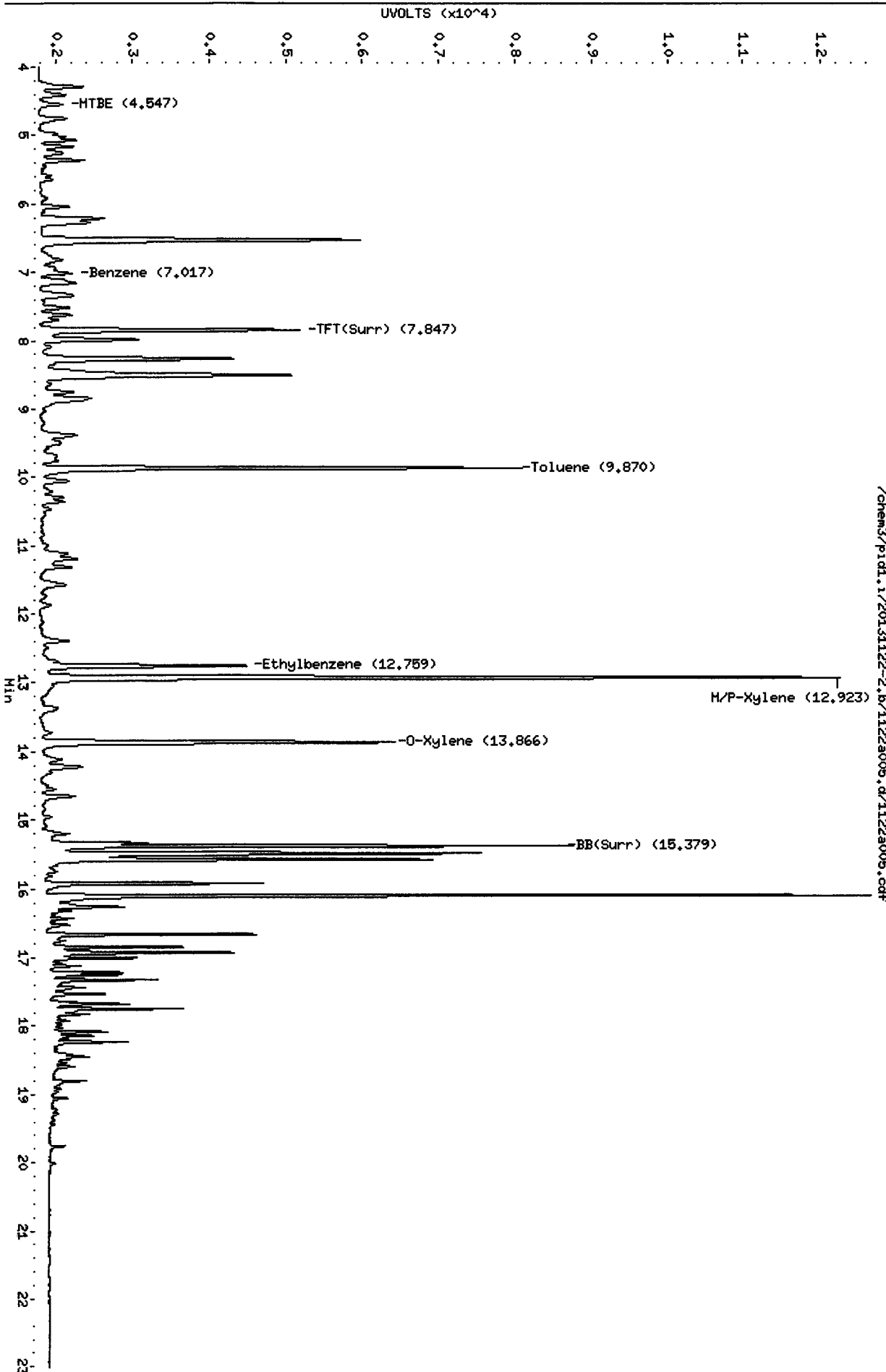


Data File: /chem3/pid1.i/20131122-2.b/1122a005.d
Date: 22-NOV-2013 11:29
Client ID:
Sample Info: LCSD1122

Column phase: RTX 502-2 PID

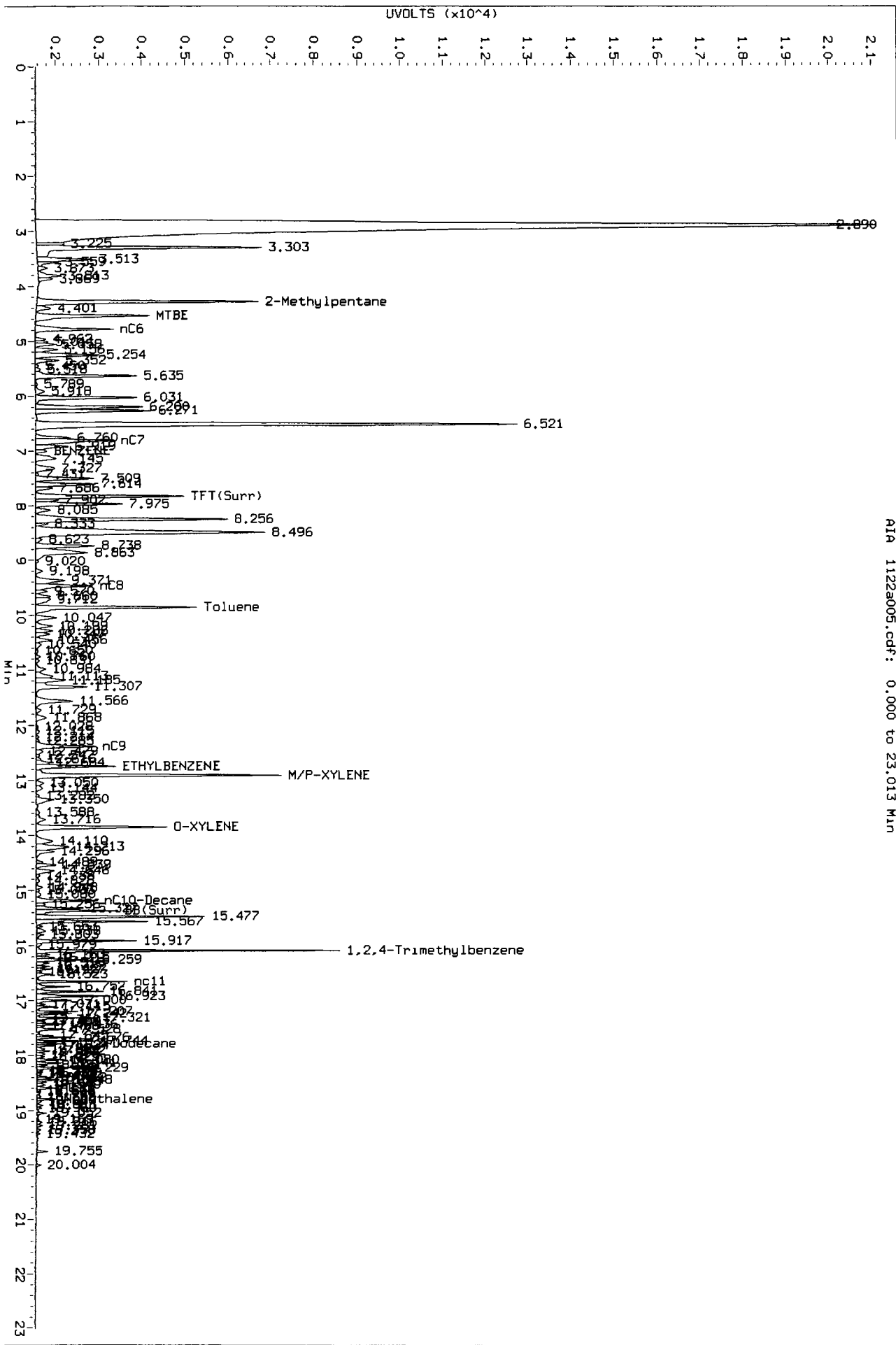
/chem3/pid1.i/20131122-2.b/1122a005.d

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



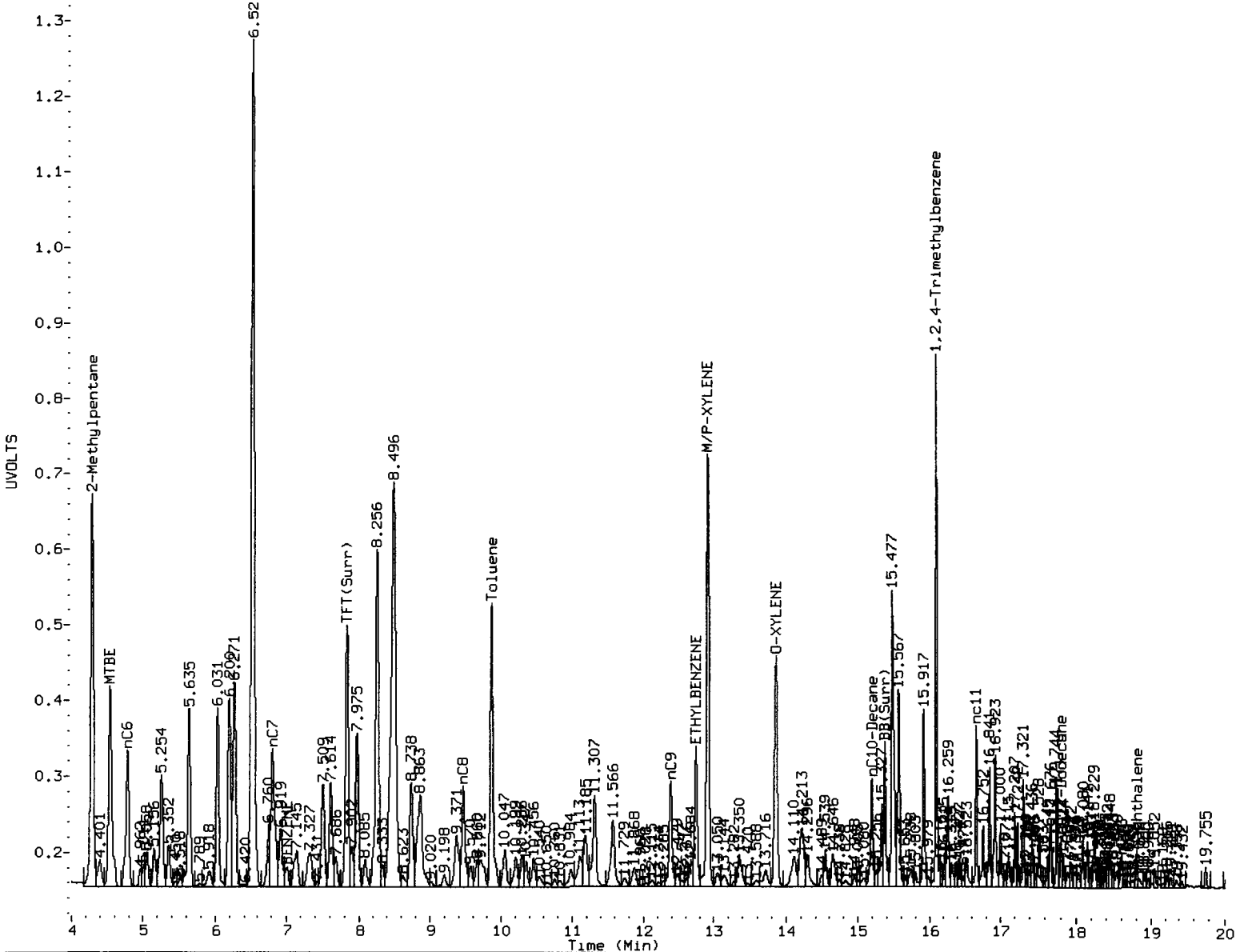
PC
11/25/13

Data File: /chem3/pid1.1/20131122-1.b/1122a005.d/1122a005.cdf
Injection Date: 22-NOV-2013 11:29
Instrument: pid1.1
Client Sample ID:



AIA 1122a005.cdf: 0.000 to 23.013 Min

FID LCSD1122



MANUAL INTEGRATION

- ① Baseline correction
- ② Poor chromatography
- ③ Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: PL Date: 11/20/05

Data File: /chem3/pid1.i/20131122-1.b/1122a006.d
Date: 22-NOV-2013 11:59
Client ID:
Sample Info: HB1122

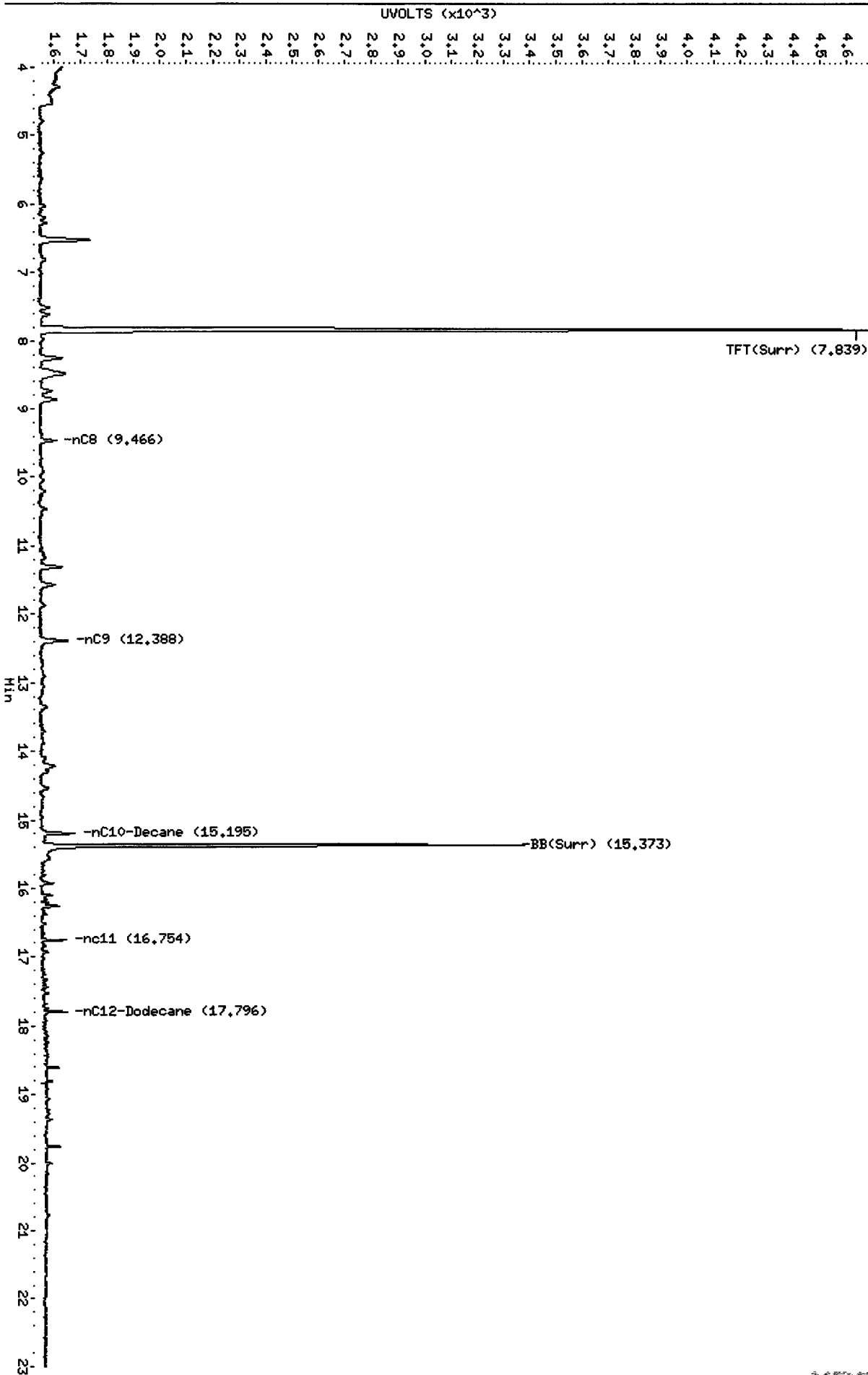
Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: PC
Column diameter: 0.18

/chem3/pid1.i/20131122-1.b/1122a006.d/1122a006.cdf



XP00 : 000032

Data File: /chem3/pid1.i/20131122-2.b/1122a006.d
Date: 22-NOV-2013 14:59

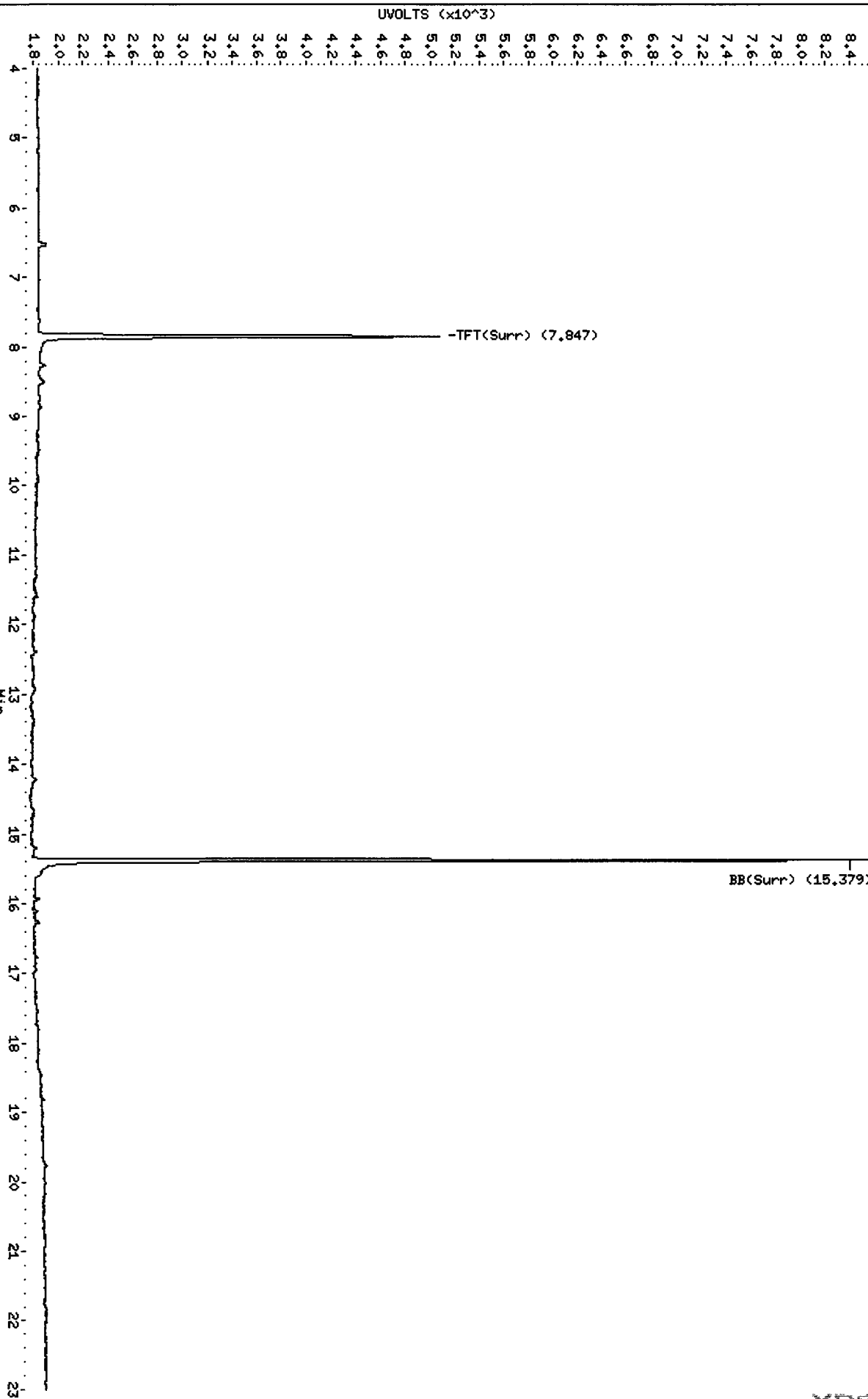
Client ID:
Sample Info: MB1122

Instrument: pid1.i

Column phase: RTX 502-2 PID

Operator: PC
Column diameter: 0.18

/chem3/pid1.i/20131122-2.b/1122a006.d/1122a006.cdf

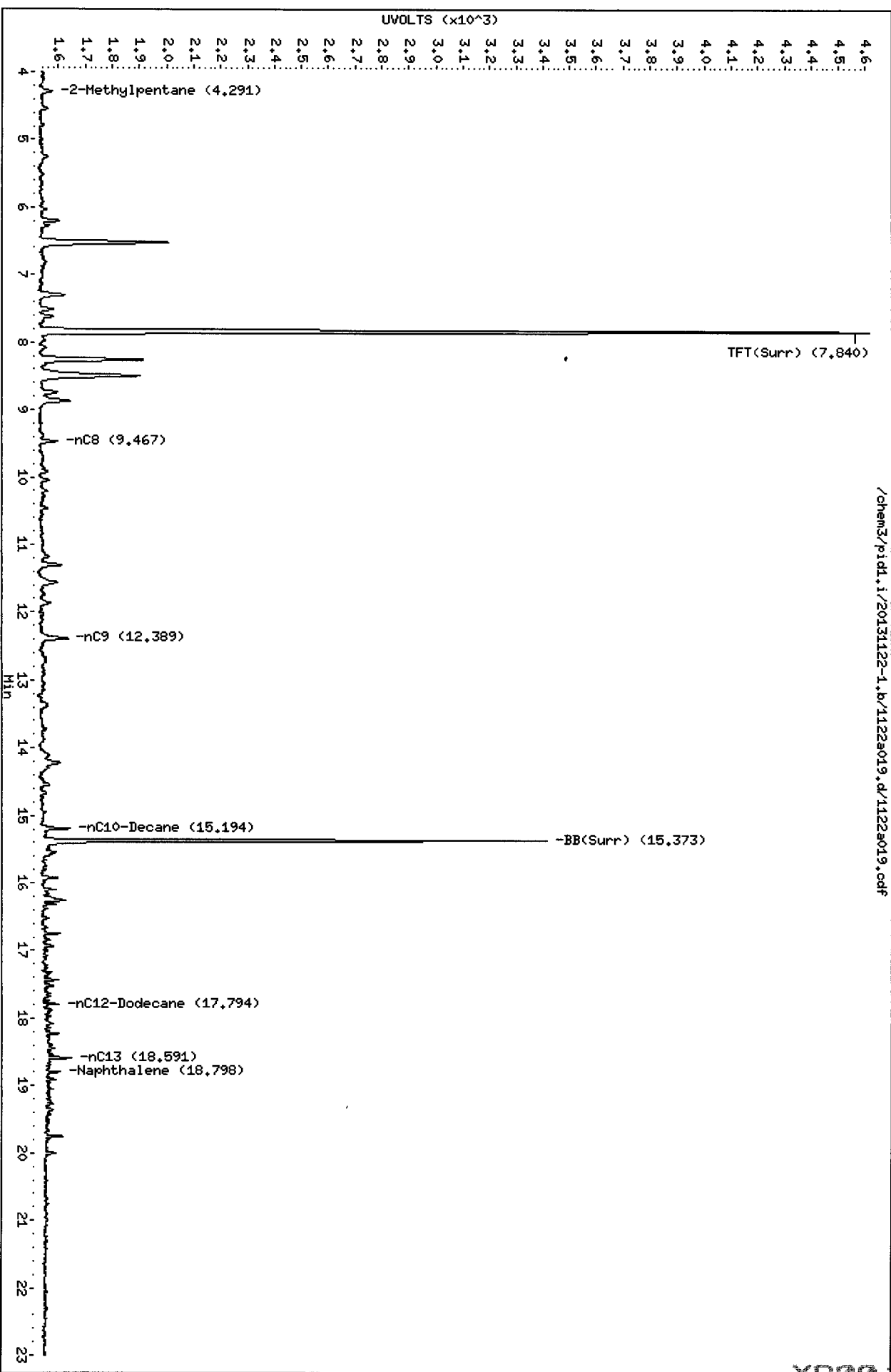


Data File: /chem3/pid1.i/20131122-1.b/1122a019.d
Date : 22-NOV-2013 19:02
Client ID: MW-4R
Sample Info: XPO0A

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18

/chem3/pid1.i/20131122-1.b/1122a019.d/1122a019.cdf



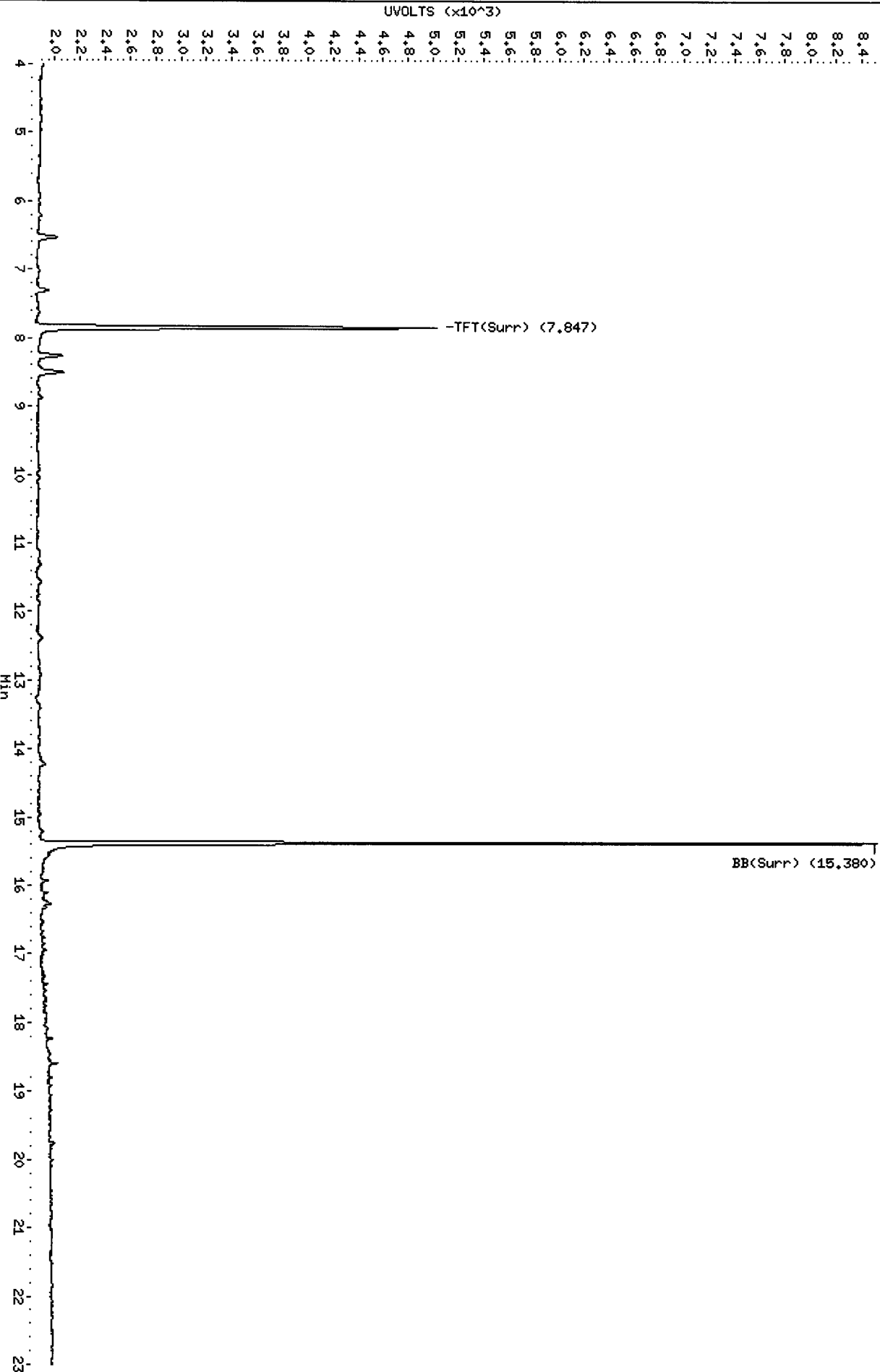
Data File: /chem3/pid1.i/20131122-2.b/1122s019.d
Date: 22-NOV-2013 19:02
Client ID: MW-4R
Sample Info: XP00A

Instrument: pid1.i

Column phase: RTX 502-2 PID

Operator: PC
Column diameter: 0.18

/chem3/pid1.i/20131122-2.b/1122s019.cdf

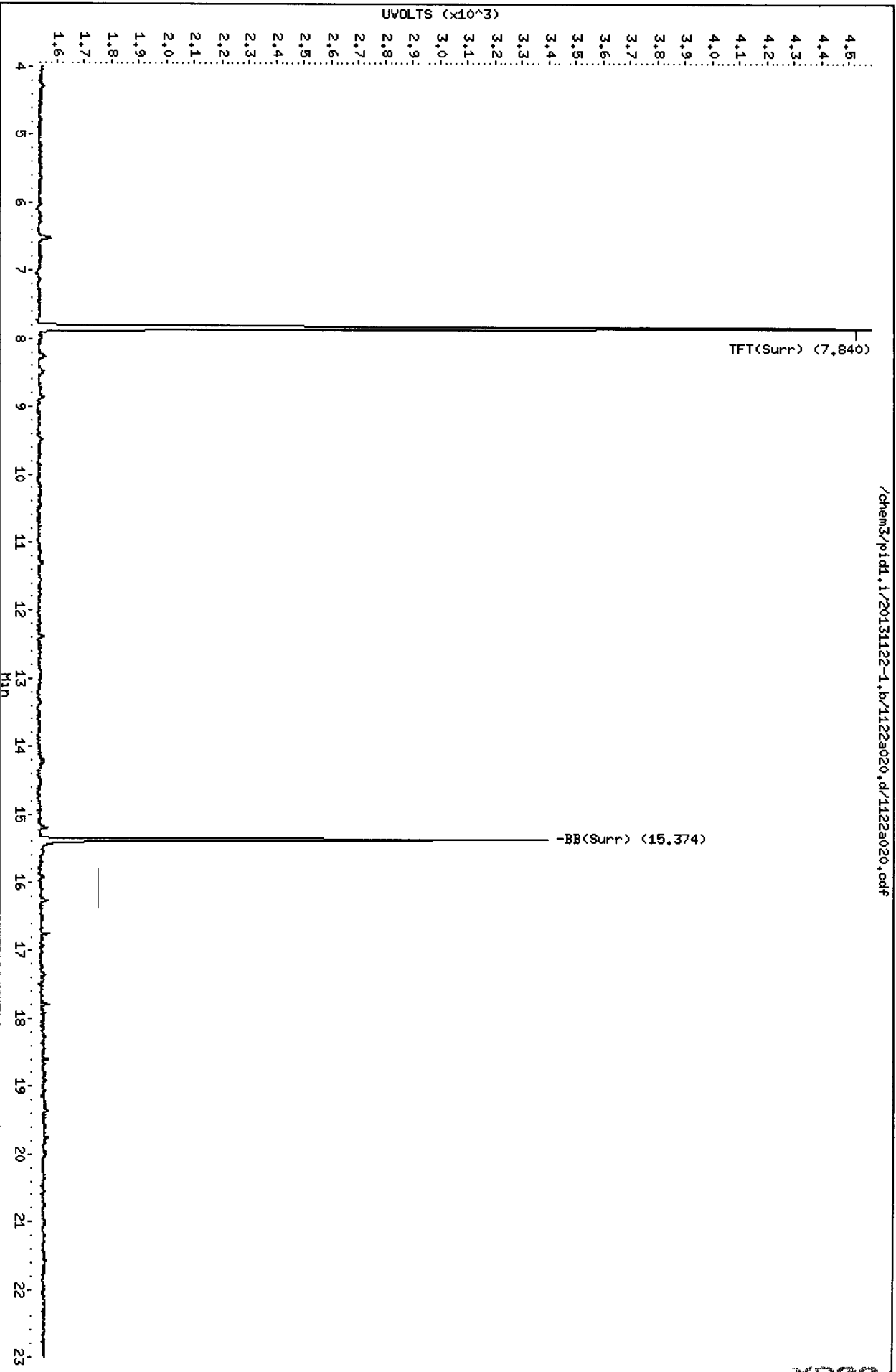


XP00A 000000

Data File: /chem3/pid1.i/20131122-1.b/1122a020.d
Date: 22-NOV-2013 19:31
Client ID: MW-3
Sample Info: XP00B

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



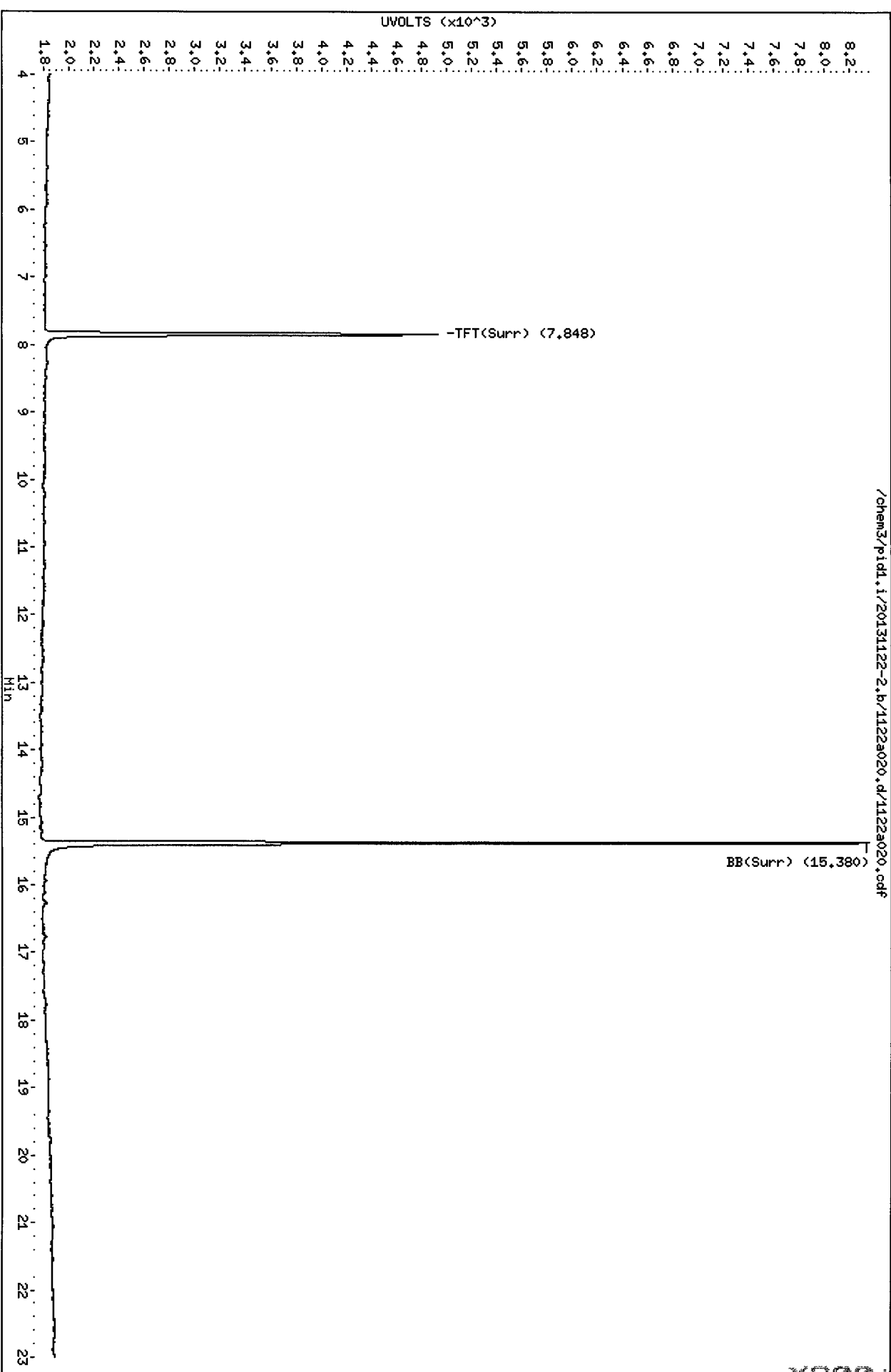
XP00B 000036

Data File: /chem3/pid1.i/20131122-2.b/1122a020.d
Date: 22-NOV-2013 19:31
Client ID: MW-3
Sample Info: XP00B

Instrument: pid1.i

Column phase: RTX 502-2 PID

Operator: PC
Column diameter: 0.18



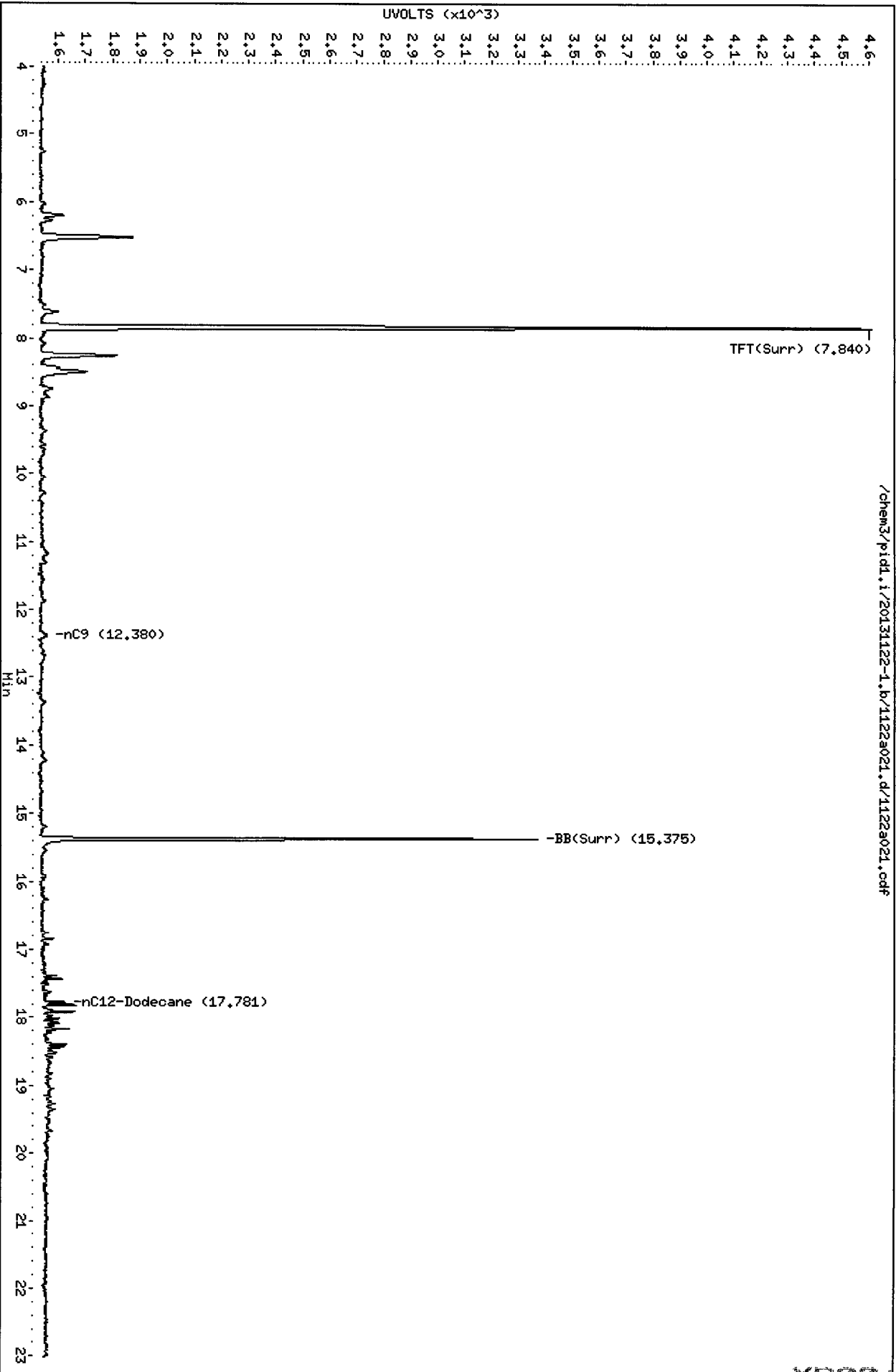
/chem3/pid1.i/20131122-2.b/1122a020.d/1122a020.cdf

Data File: /chem3/pid1.i/20131122-1.b/1122a021.d
Date: 22-NOV-2013 20:00
Client ID: MW-2
Sample Info: XP000

Column phase: RTX 502-2 FID

/chem3/pid1.i/20131122-1.b/1122a021.d/1122a021.cdf

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



XP00 00038

Data File: /chem3/pid1.i/20131122-2.b/1122a021.d

Date: 22-NOV-2013 20:00

Client ID: MW-2

Sample Info: XP00C

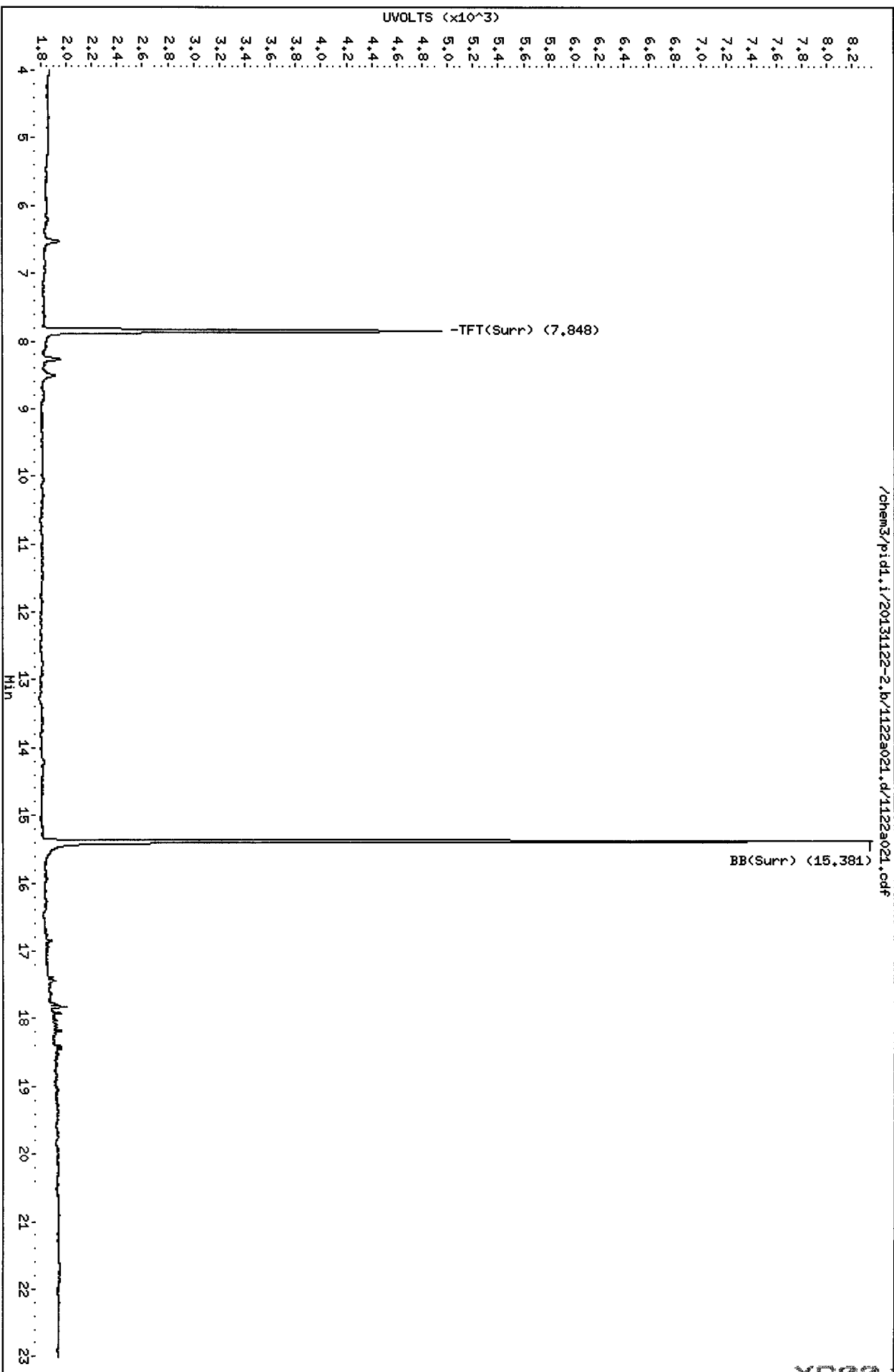
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

Page 1



XP00 00000

Data File: /chem3/pid1.i/20131122-1.b/1122a022.d

Page 1

Date : 22-NOV-2013 20:30

Client ID: MW-5

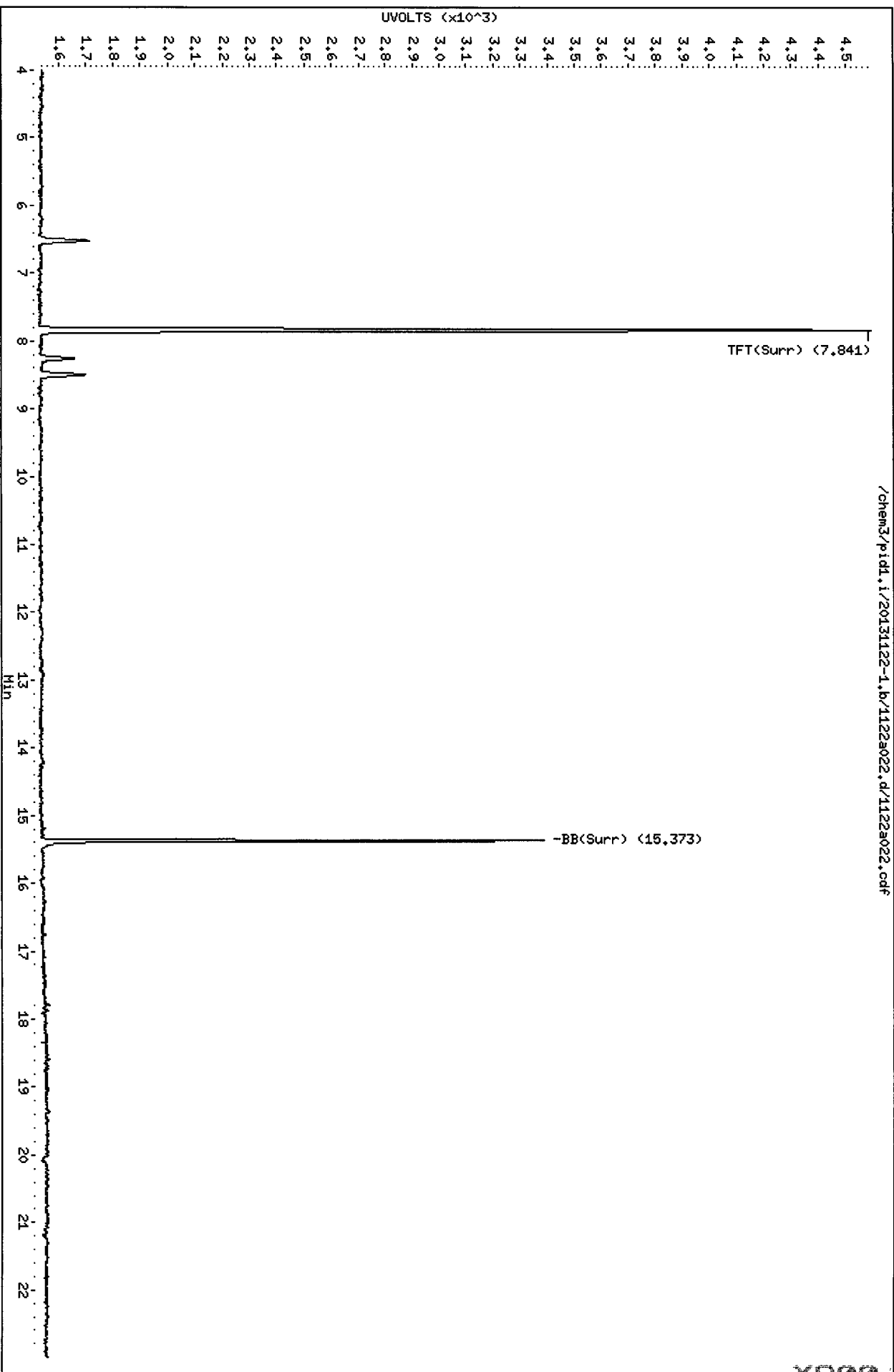
Instrument: pid1.i

Sample Info: XPO00

Operator: PC

Column phase: RTX 502-2 FID

Column diameter: 0.18



XPO0 00040

Data File: /chem3/pid1.i/20131122-2.b/1122a022.d

Date: 22-NOV-2013 20:30

Client ID: MM-5

Sample Info: XP00D

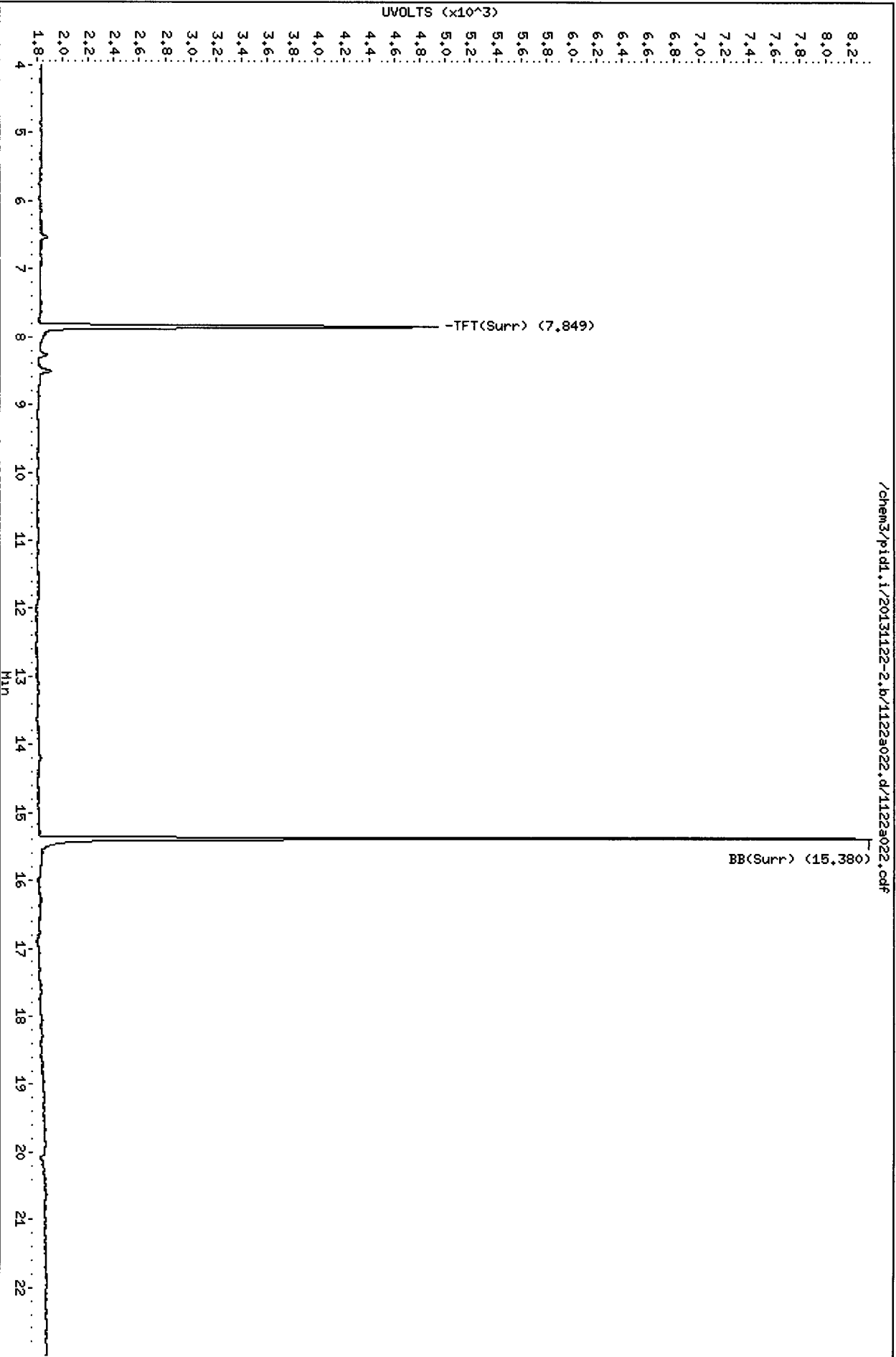
Column phase: RTX 502-2 PID

Instrument: pid1.1

Operator: PC

Column diameter: 0.18

Page 1



/chem3/pid1.i/20131122-2.b/1122a022.d/1122a022.cdf

XP00 00041

Data File: /chem3/pid1.i/20131122-1.b/1122a023.d

Date: 22-NOV-2013 20:59

Client ID: MW-14

Sample Info: XPO0E

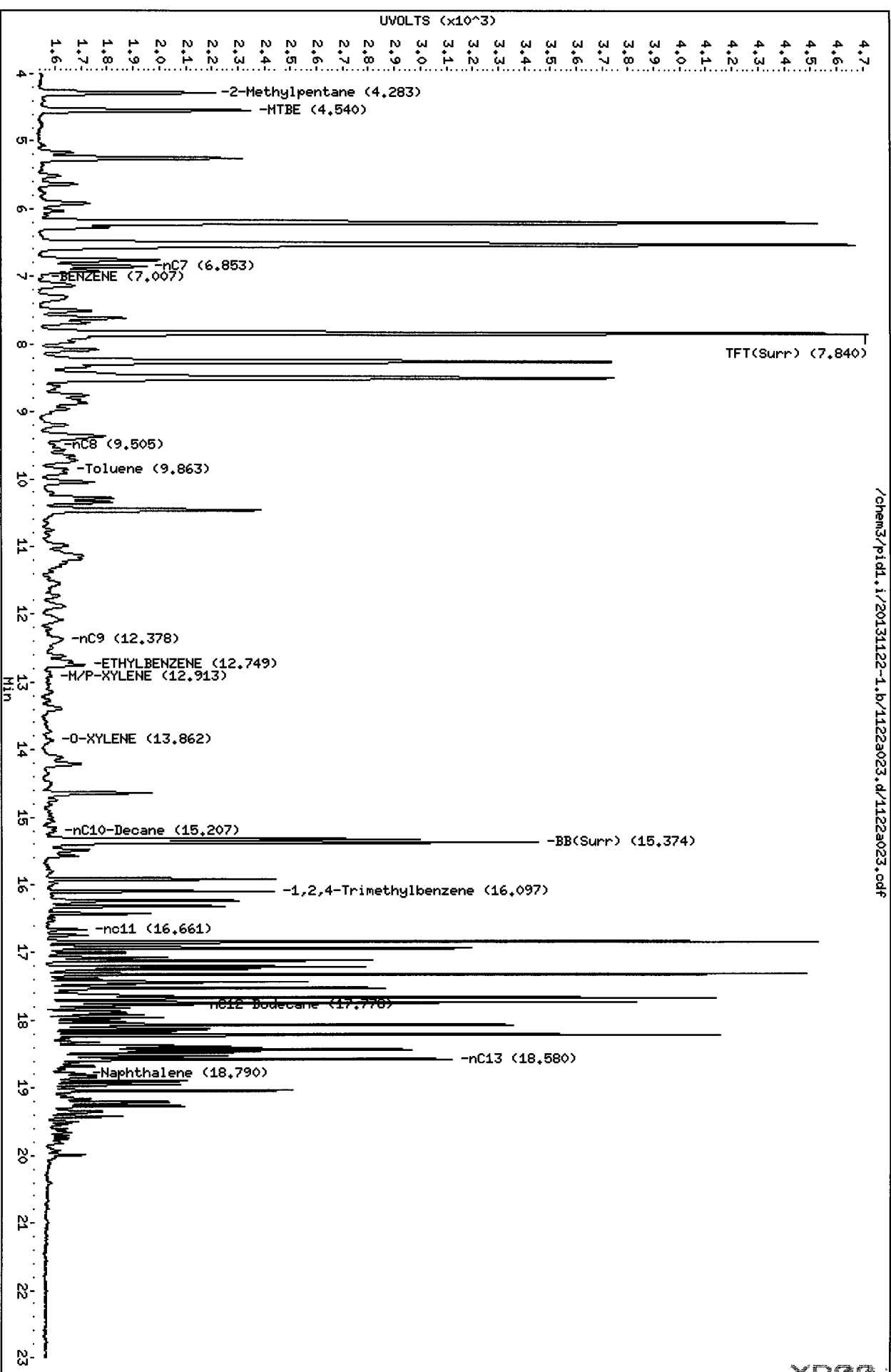
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

/chem3/pid1.i/20131122-1.b/1122a023.d/1122a023.cdf



Data File: /chem3/pid1.i/20131122-2.b/1122a023.d

Date: 22-NOV-2013 20:59

Client ID: MW-14

Sample Info: XPO0E

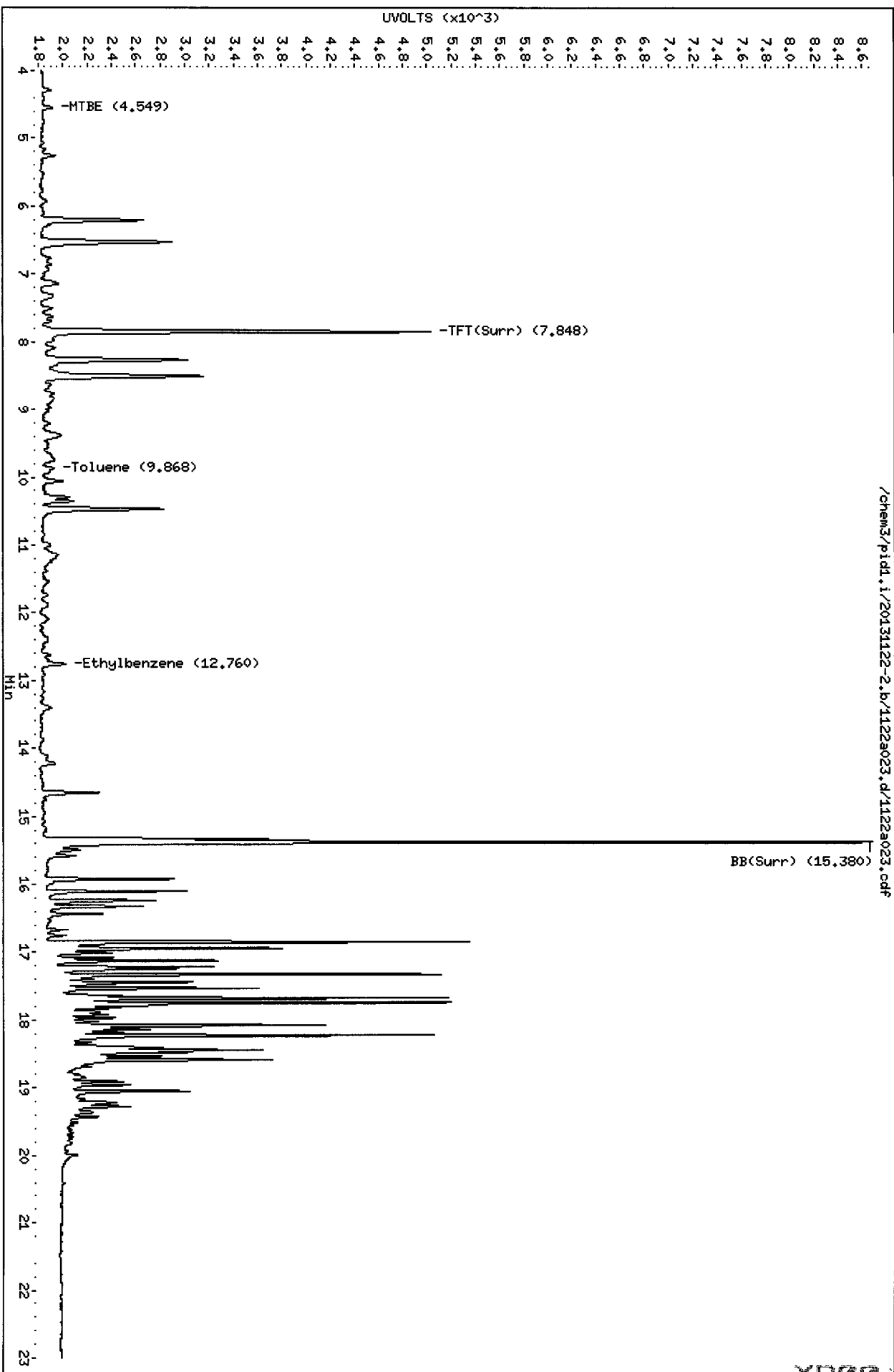
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

Page 1

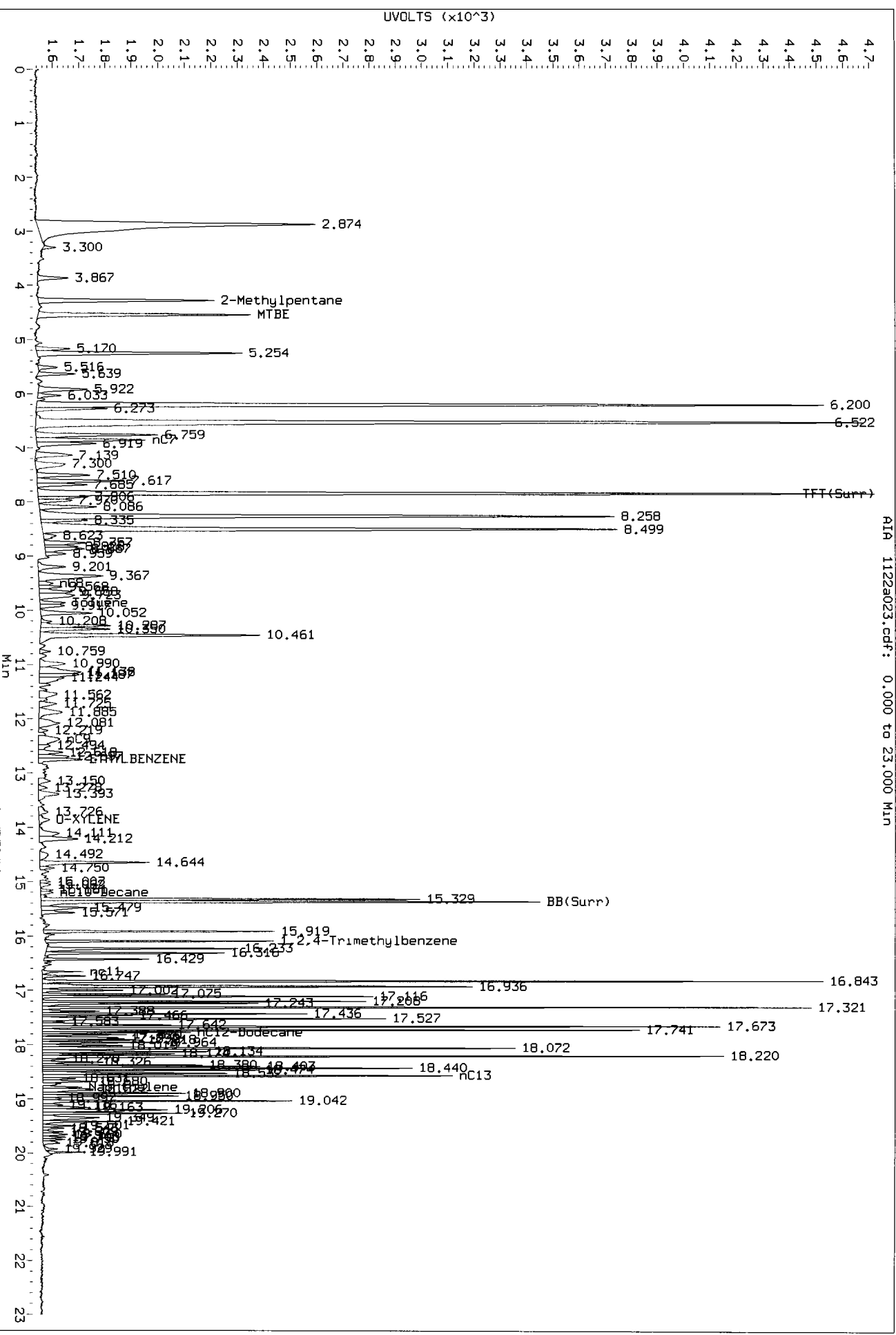


/chem3/pid1.i/20131122-2.b/1122a023.d

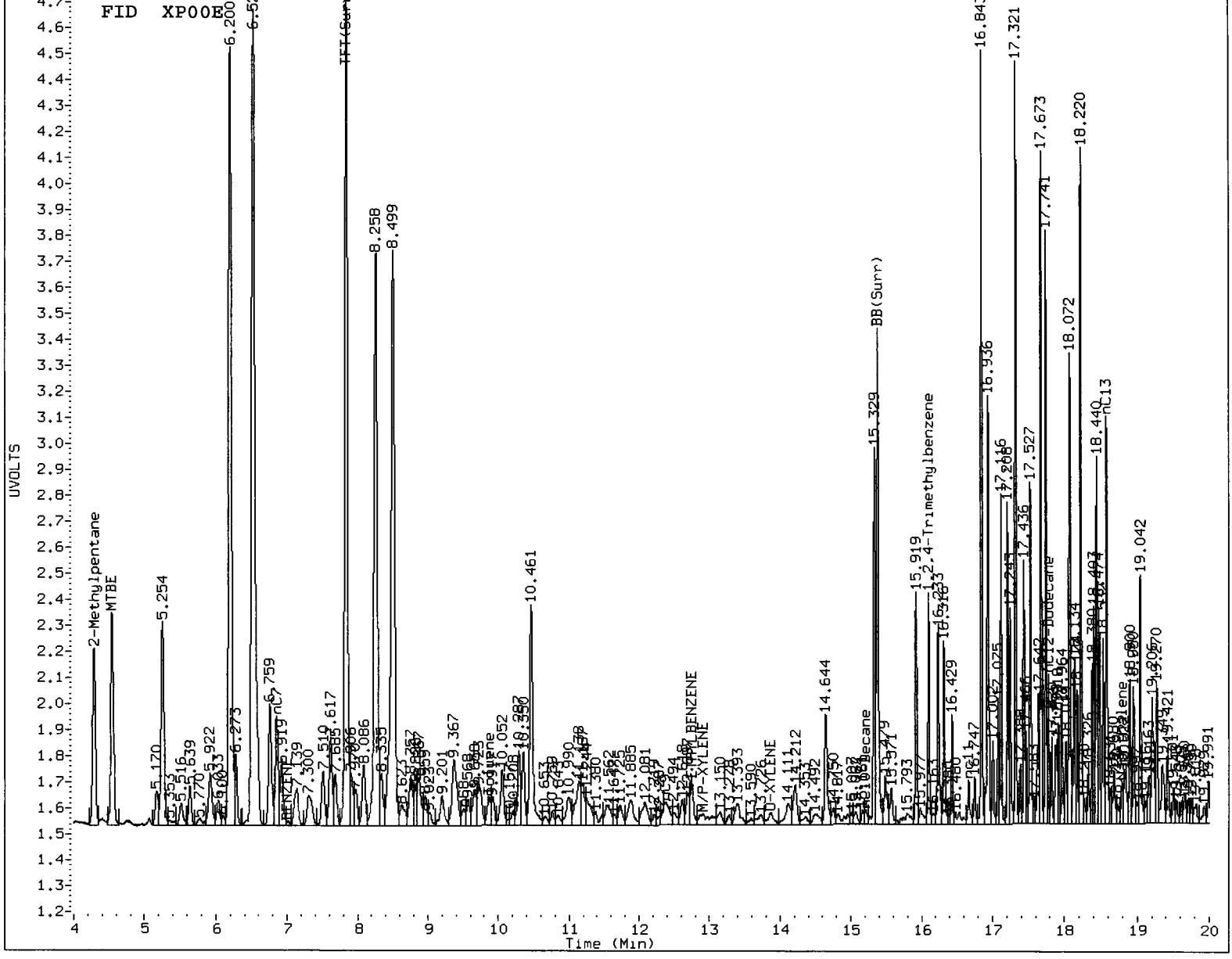
XP00 00040

Data File: /chem3/pid1.1/20131122-1.b/1122a023.d/1122a023.cdf
Injection Date: 22-NOV-2013 20:59
Instrument: pid1.1
Client Sample ID: MW-14

MW
11/27/13



RII 1122a023.cdf: 0.000 to 23.000 Min



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: KL

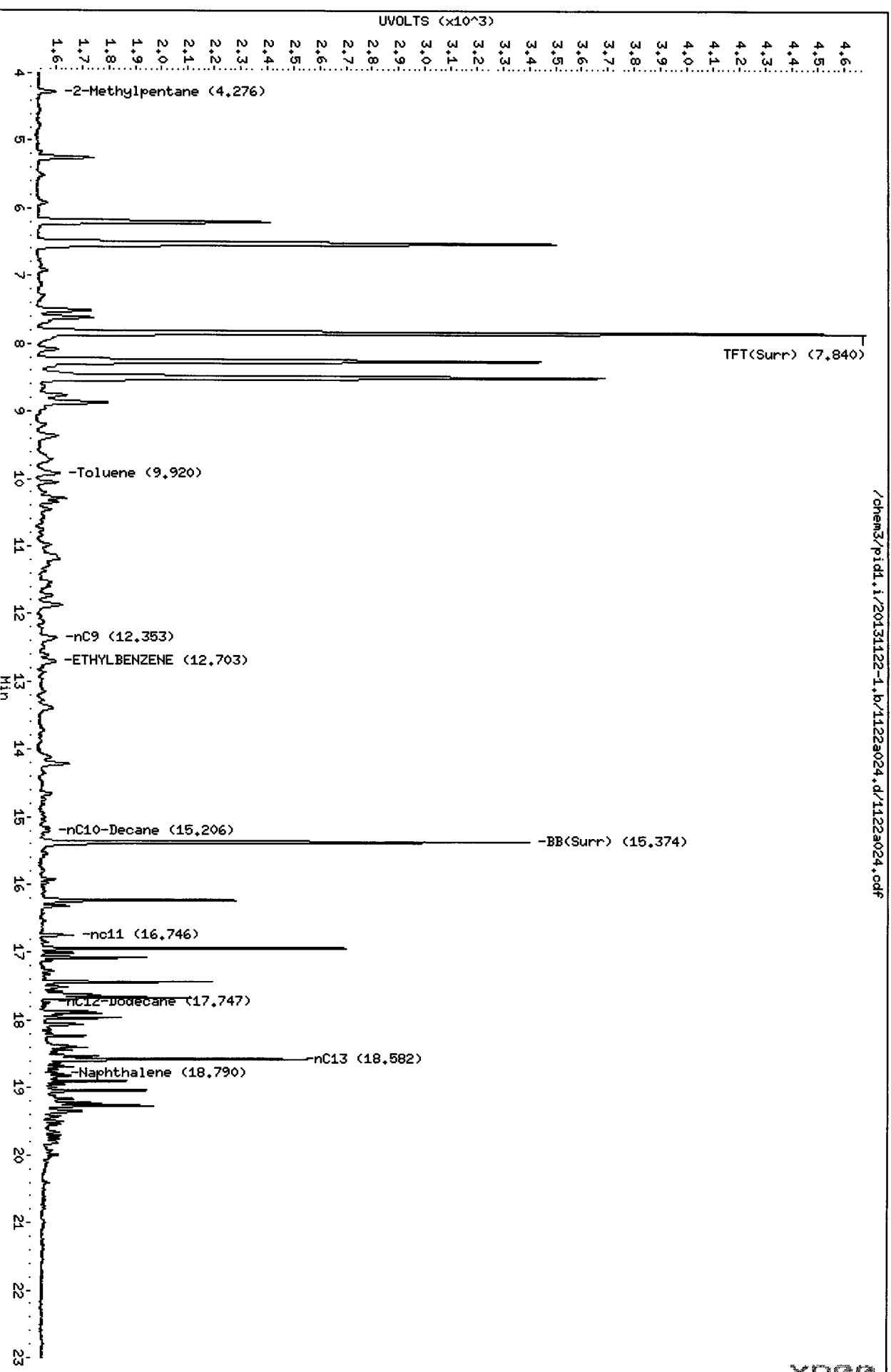
Date: 11/27/13

Data File: /chem3/pid1.i/20131122-1.b/1122a024.d
Date: 22-NOV-2013 21:28
Client ID: MM-KA
Sample Info: XPOOF

Column phase: RTX 502-2 FID

/chem3/pid1.i/20131122-1.b/1122a024.d/1122a024.cdf

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid1.i/20131122-2.b/1122a024.d

Date: 22-NOV-2013 21:28

Client ID: MM-KA

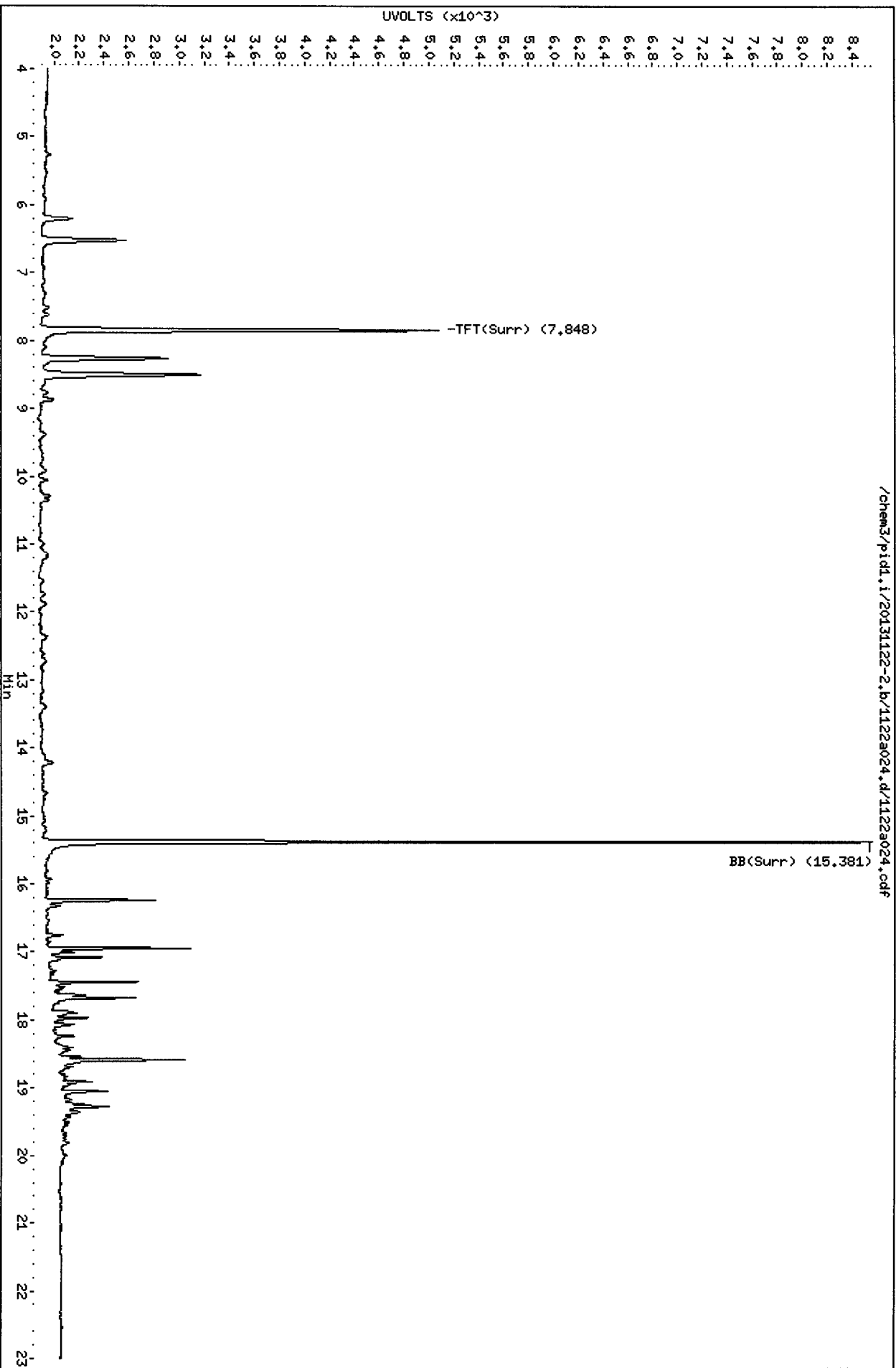
Sample Info: XPOOF

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

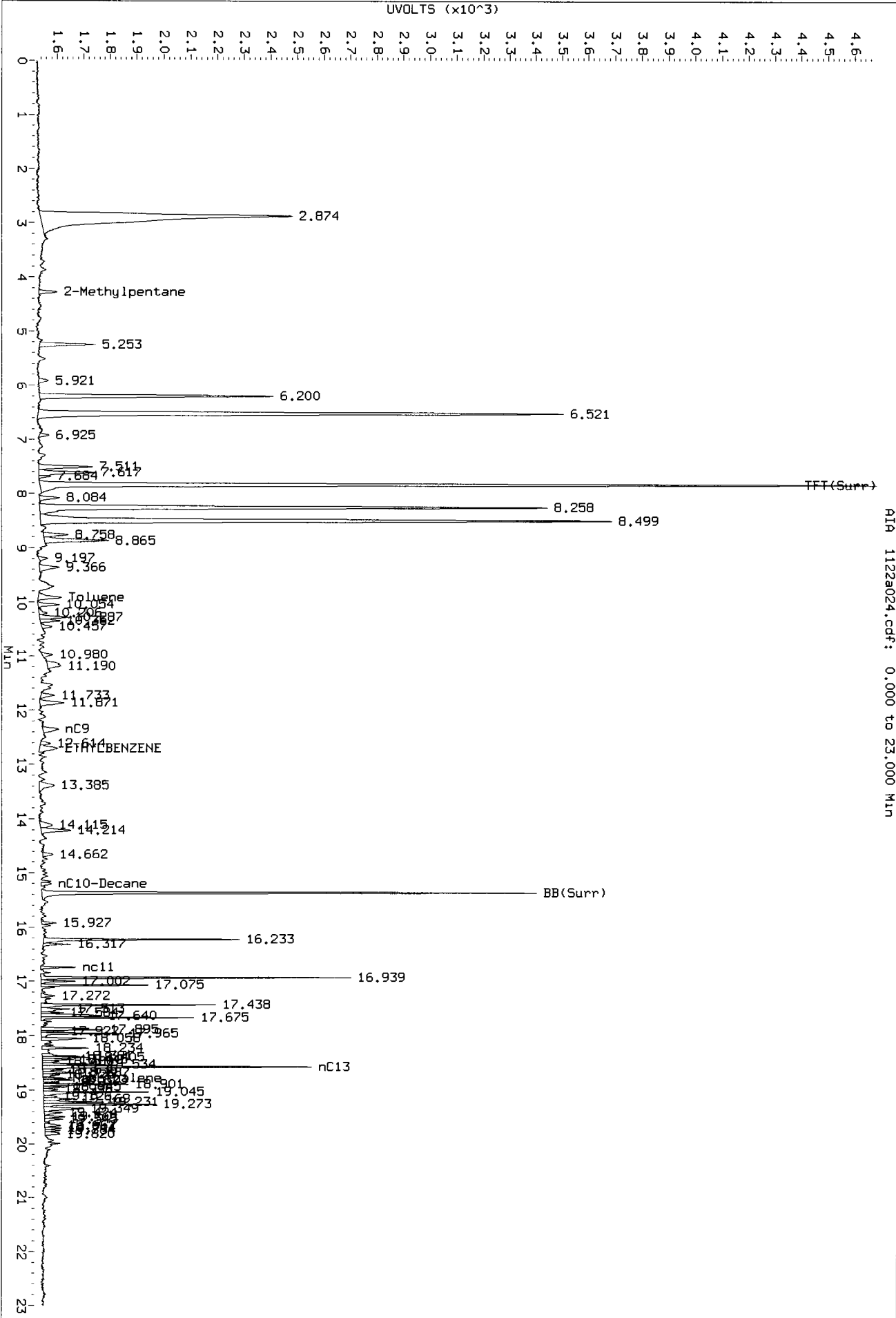
Column diameter: 0.18



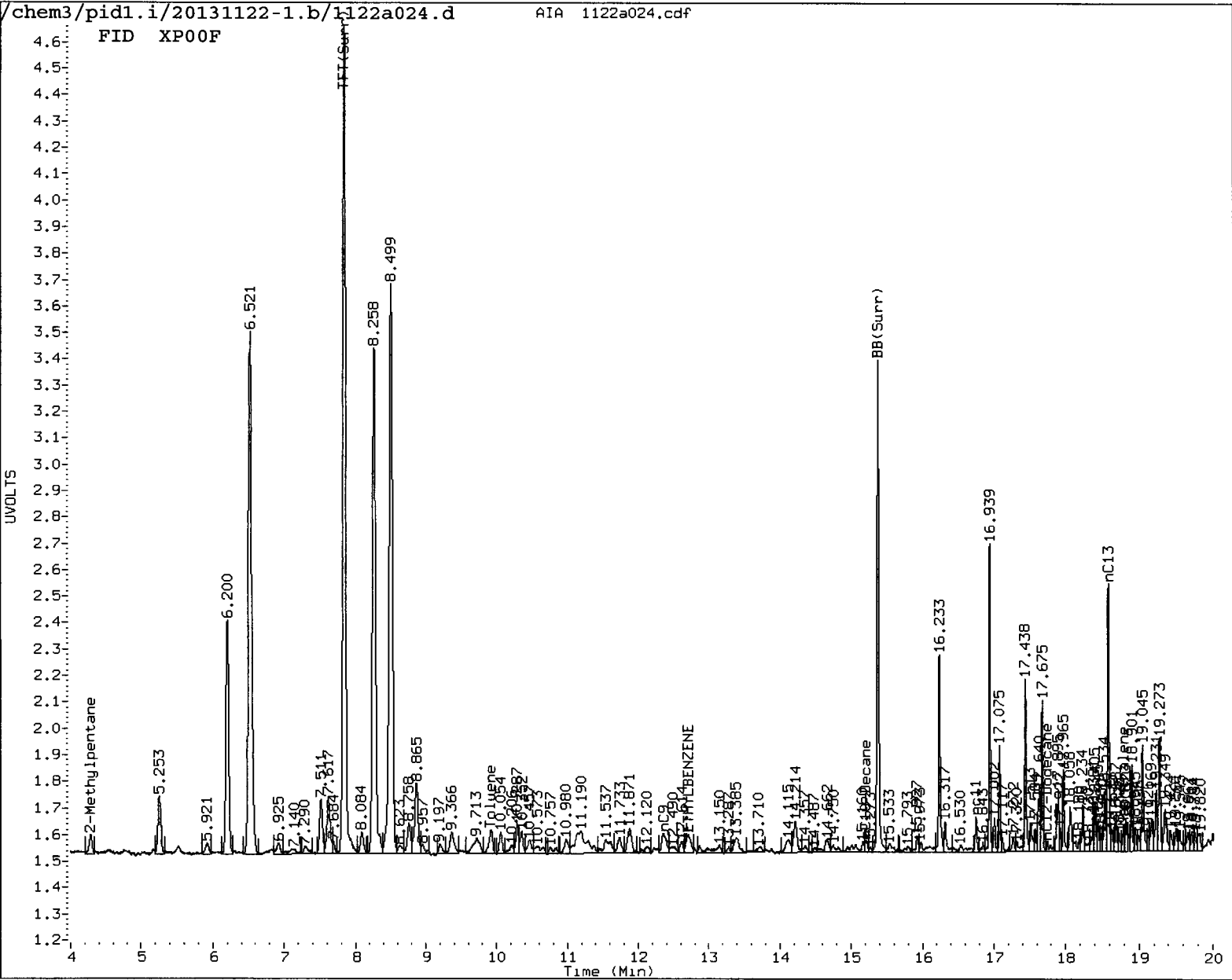
0000 0000

Data File: /chem3/p1d1.1/20131122-1.b/1122a024.d/1122a024.cdf
Injection Date: 22-NOV-2013 21:28
Instrument: p1d1.1
Client Sample ID: MW-KA

PC
4/27/13



AIA 1122a024.cdf: 0.000 to 23.000 Min



MANUAL INTEGRATION

- 1 Baseline correction
- 2 Poor chromatography
- 3 Peak not found
- 4 Totals calculation
- 5. Other _____

Analyst: PC Date: 11/27/13

Data File: /chem3/pid1.i/20131122-1.b/1122a025.d

Date: 22-NOV-2013 21:57

Client ID: MM-6

Sample Info: XP000

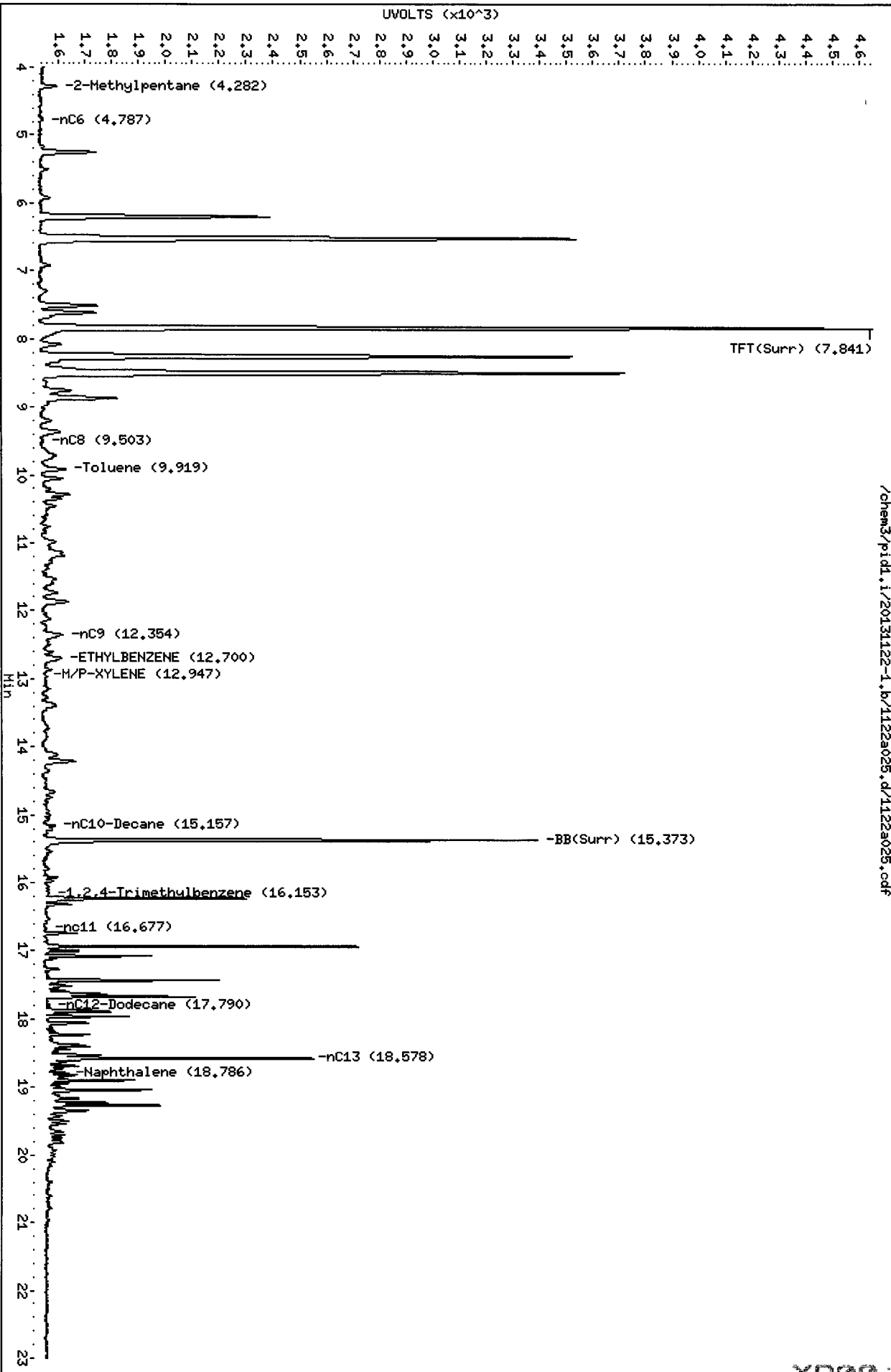
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

Page 1



XP00 00050

Data File: /chem3/pid1.i/20131122-2.b/1122a025.d

Date: 22-NOV-2013 21:57

Client ID: MW-6

Sample Info: XP000

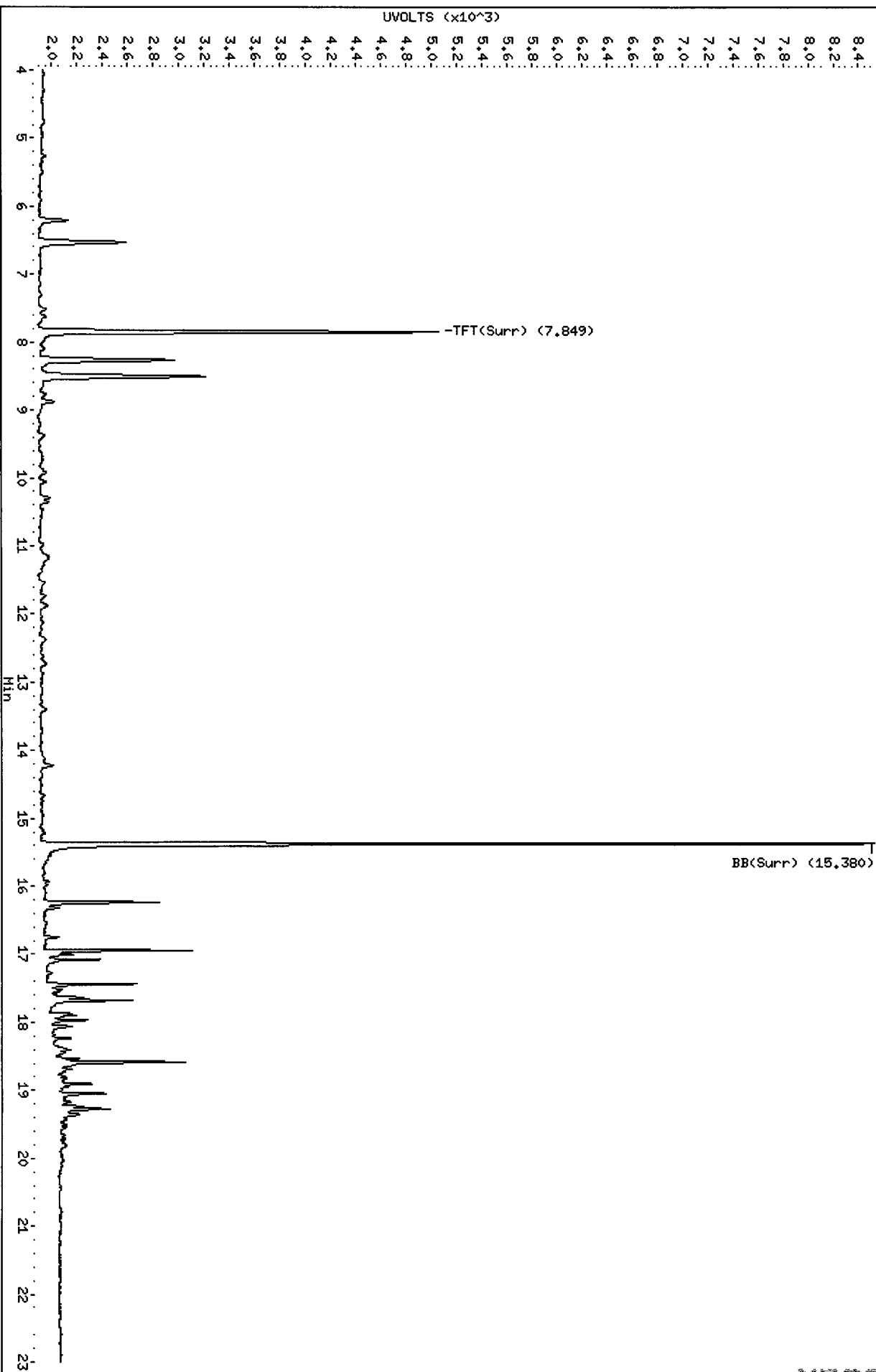
Instrument: pid1.i

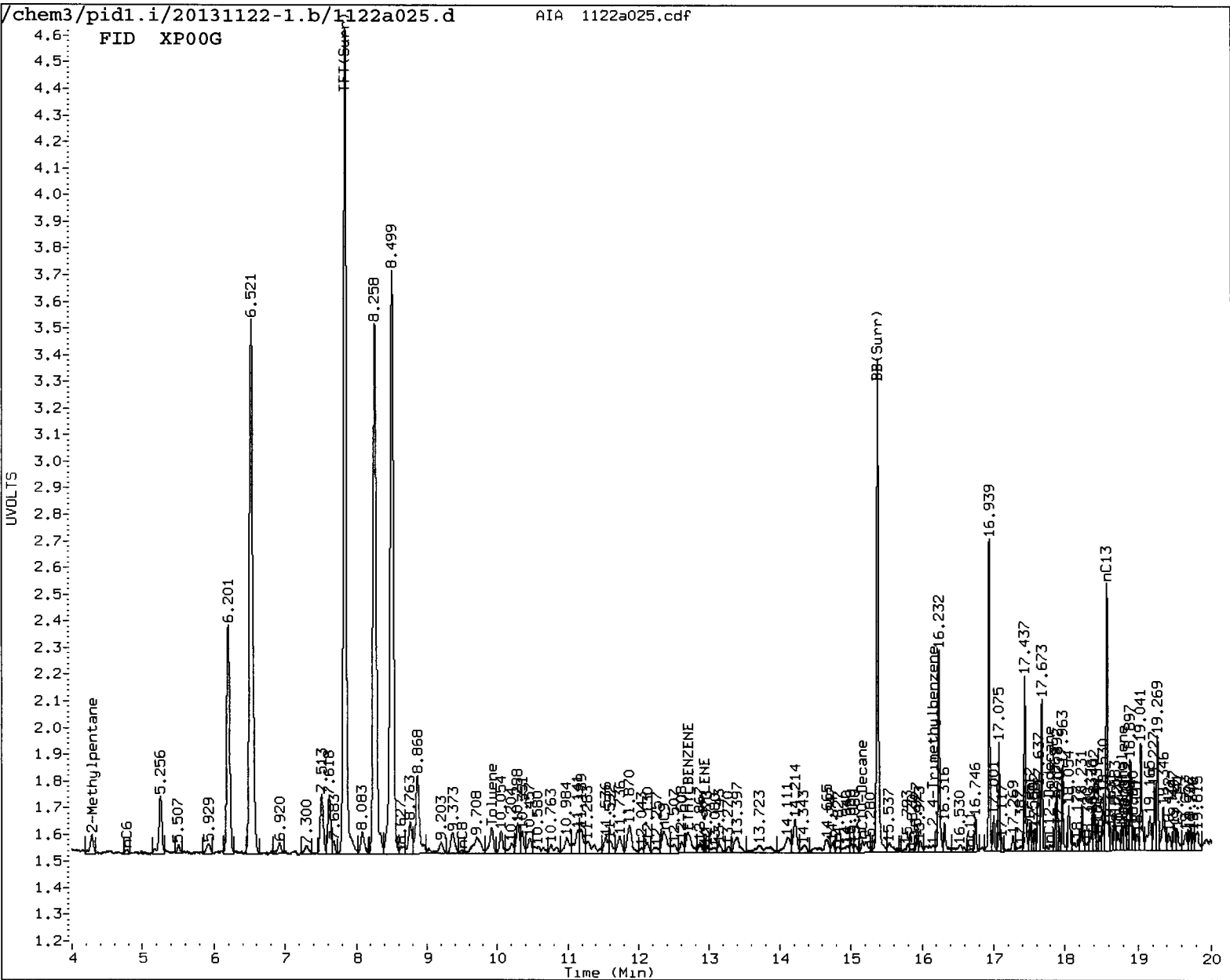
Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid1.i/20131122-2.b/1122a025.d/1122a025.cdf





MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: Date: 11/27/13

Data File: /chem3/pid1.i/20131122-1.b/1122a028.d

Date : 22-NOV-2013 23:26

Client ID: MW-13

Sample Info: XPOOH

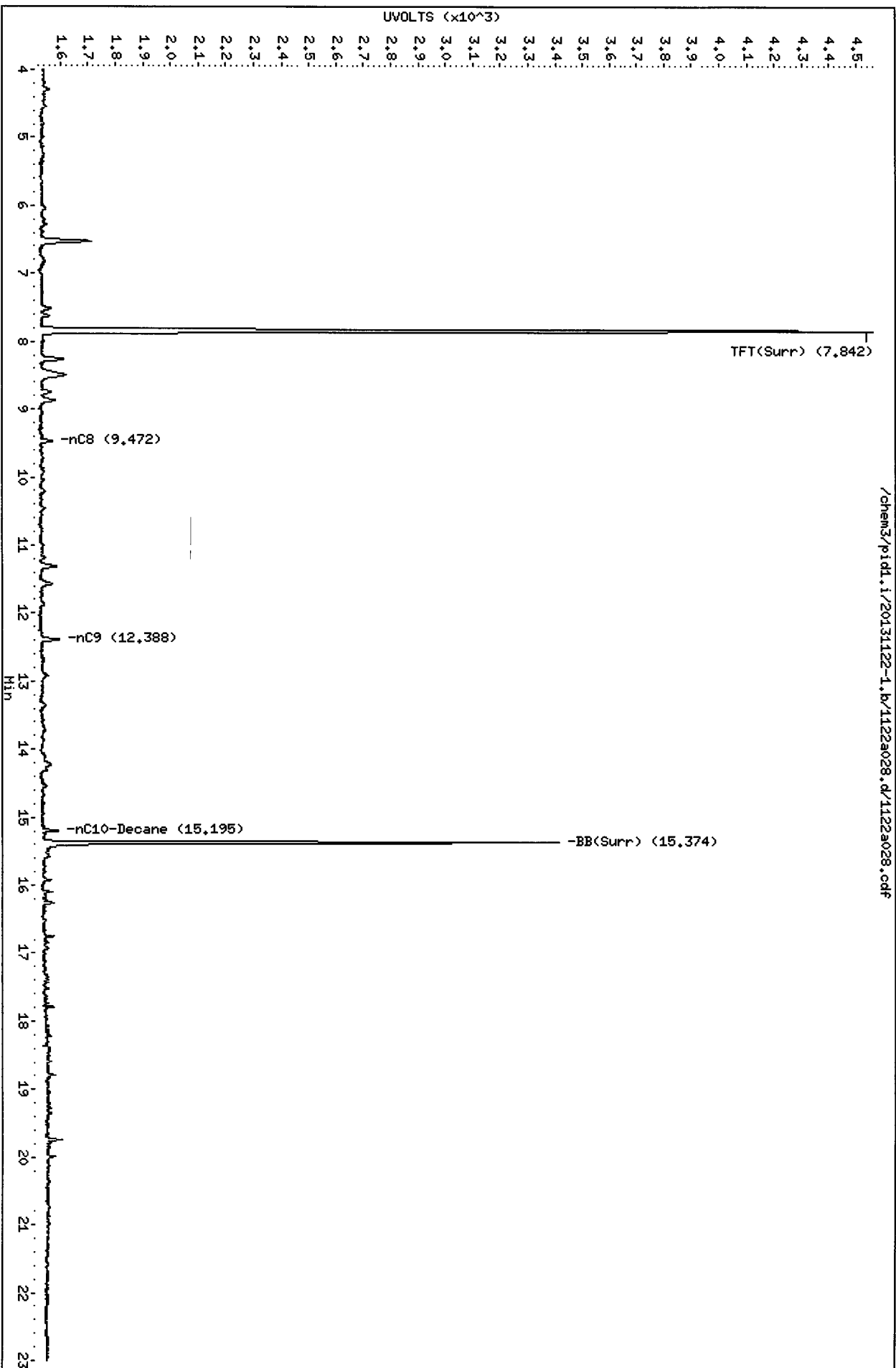
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

Page 1



/chem3/pid1.i/20131122-1.b/1122a028.d/1122a028.cdf

00054 0000

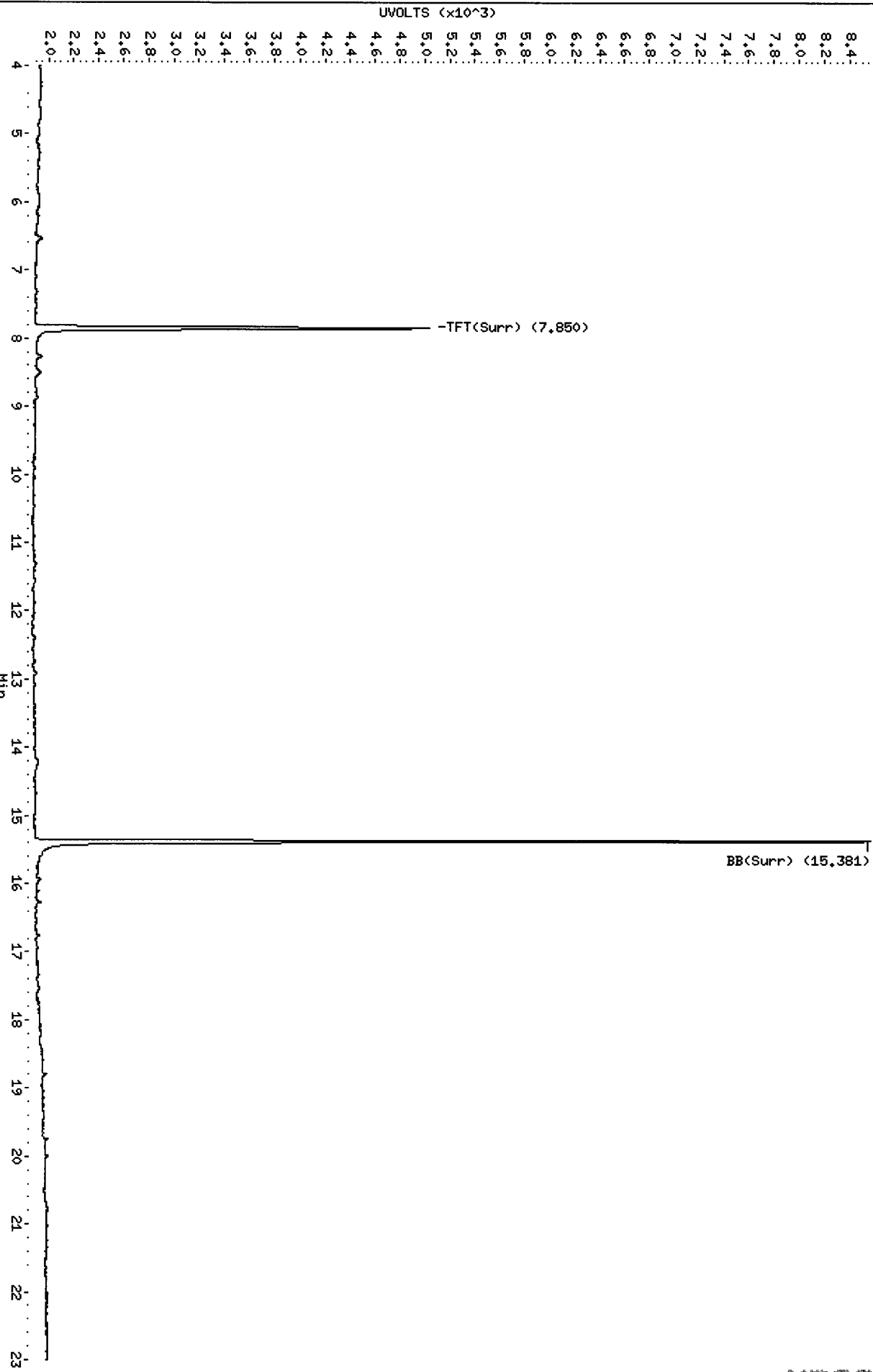
Data File: /chem3/pid1.i/20131122-2.b/1122a028.d
Date : 22-NOV-2013 23:25
Client ID: MW-13
Sample Info: XPOOH

Instrument: pid1.1

Column phase: RTX 502-2 PID

Operator: PC
Column diameter: 0.18

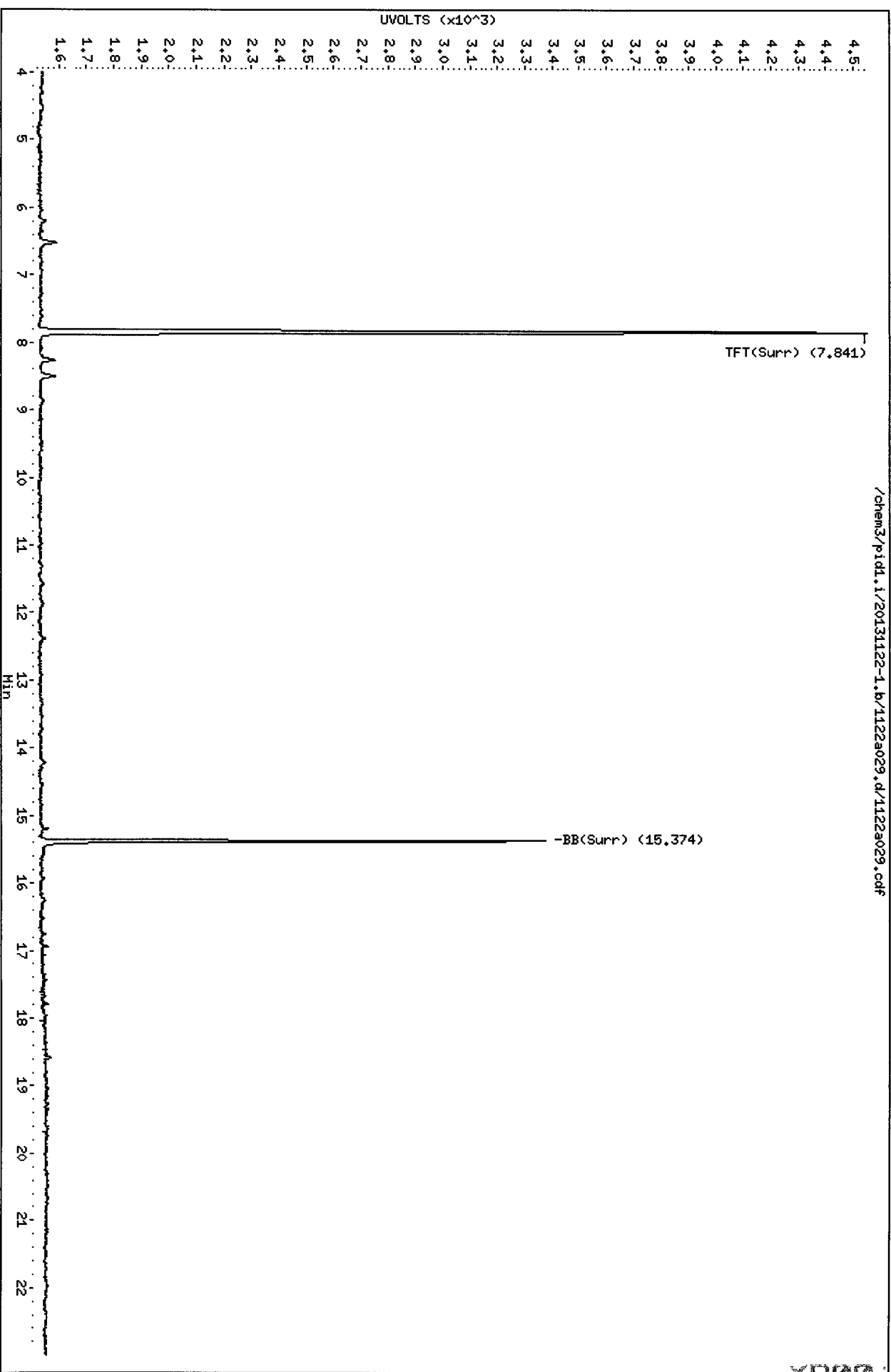
/chem3/pid1.i/20131122-2.b/1122a028.d/1122a028.cdf



Data File: /chem3/pid1.i/20131122-1.b/1122a029.d
Date : 22-NOV-2013 23:54
Client ID: MW-15
Sample Info: XP001

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



/chem3/pid1.i/20131122-1.b/1122a029.d/1122a029.cdf

Data File: /chem3/pid1.i/20131122-2.b/1122a029.d

Date : 22-NOV-2013 23:54

Client ID: MW-15

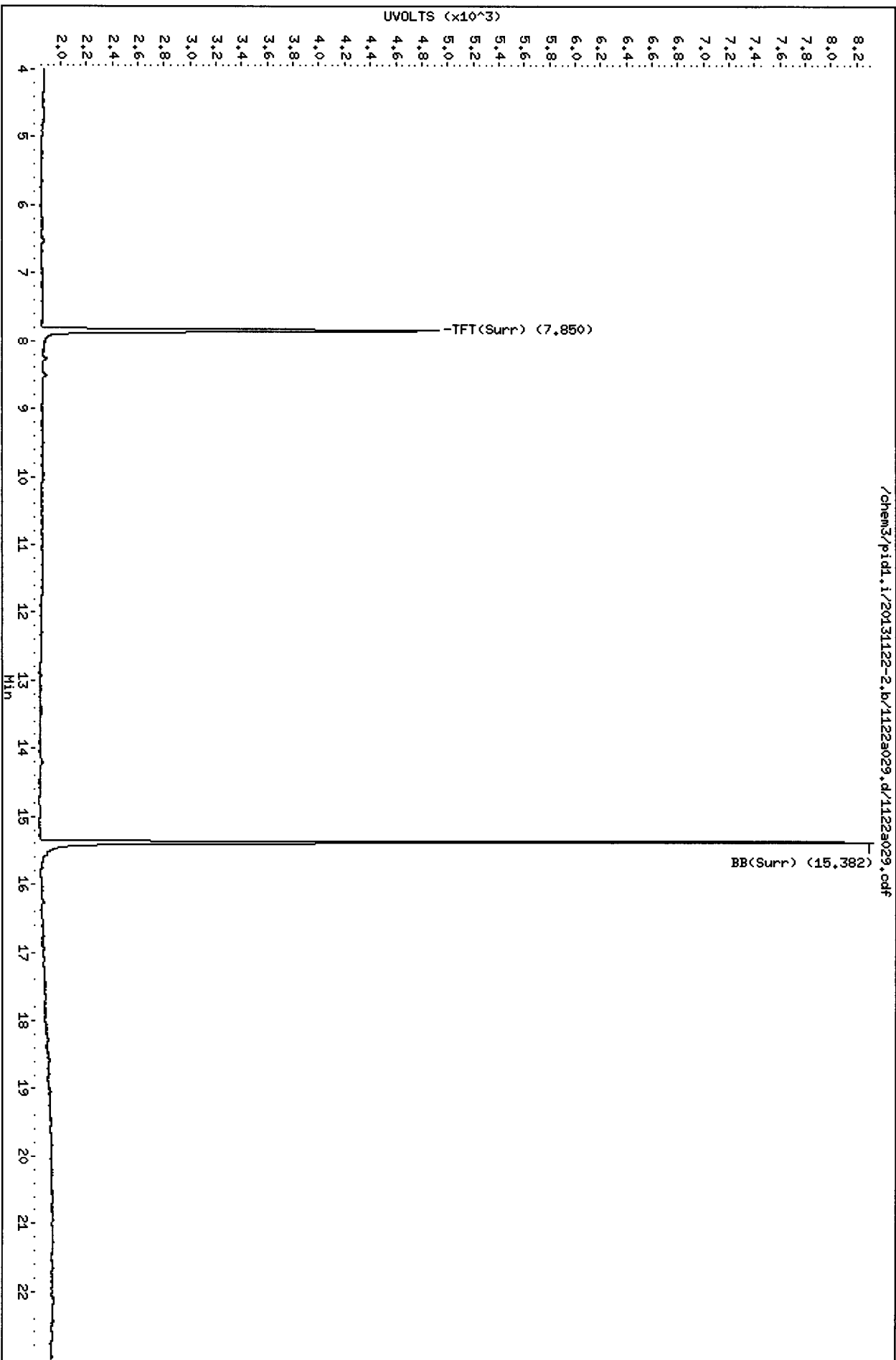
Sample Info: XP001

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18



/chem3/pid1.i/20131122-2.b/1122a029.d/1122a029.cdf

Data File: /chem3/pid1.i/20131122-1.b/1122a030.d
Date: 23-NOV-2013 00:23
Client ID: TB
Sample Info: XP00J

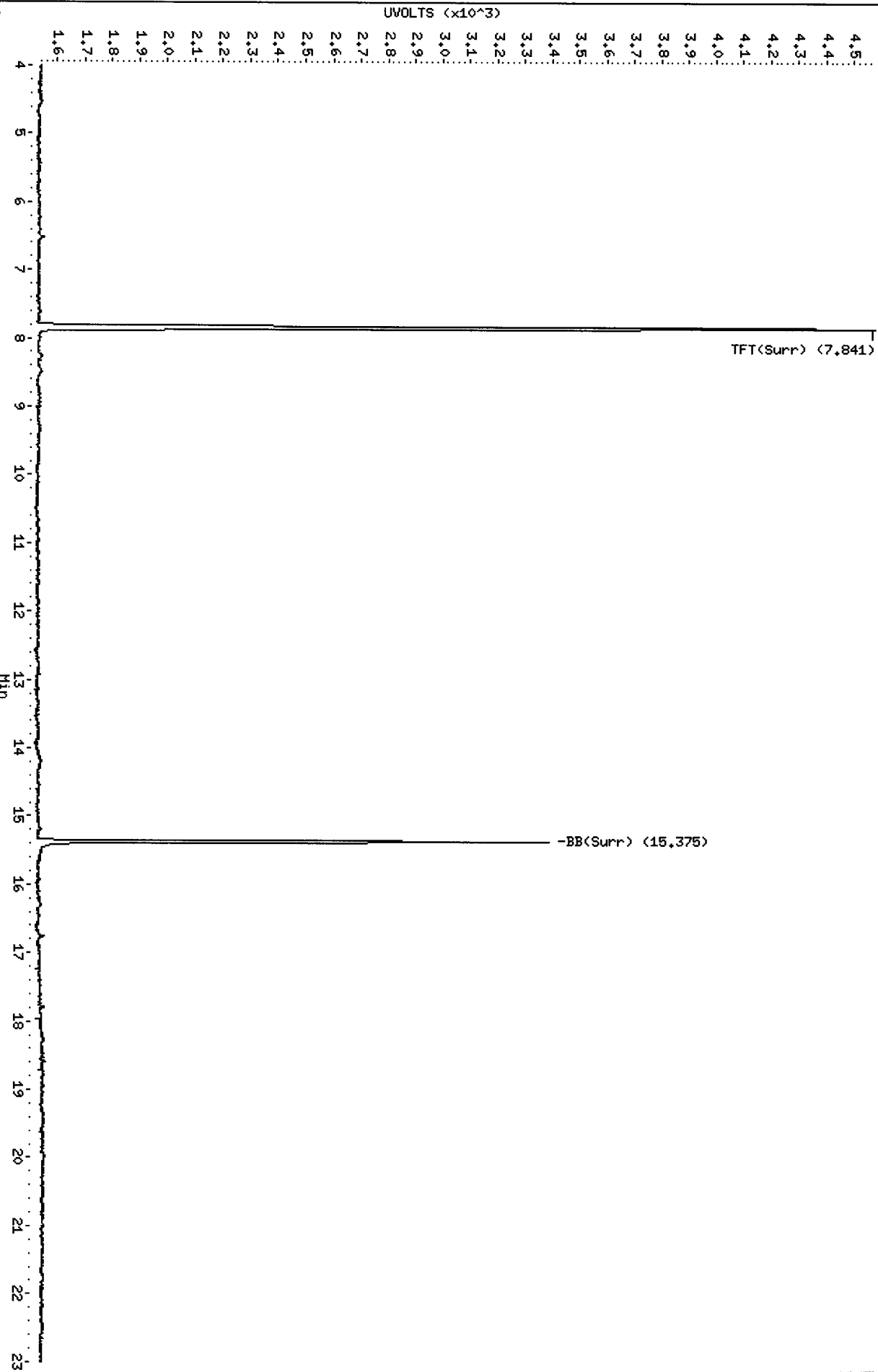
Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: PC
Column diameter: 0.18

/chem3/pid1.i/20131122-1.b/1122a030.d/1122a030.pdf



XP00 00058

Data File: /chem3/pid1.i/20131122-2.b/1122a030.d

Date: 23-NOV-2013 00:23

Client ID: TB

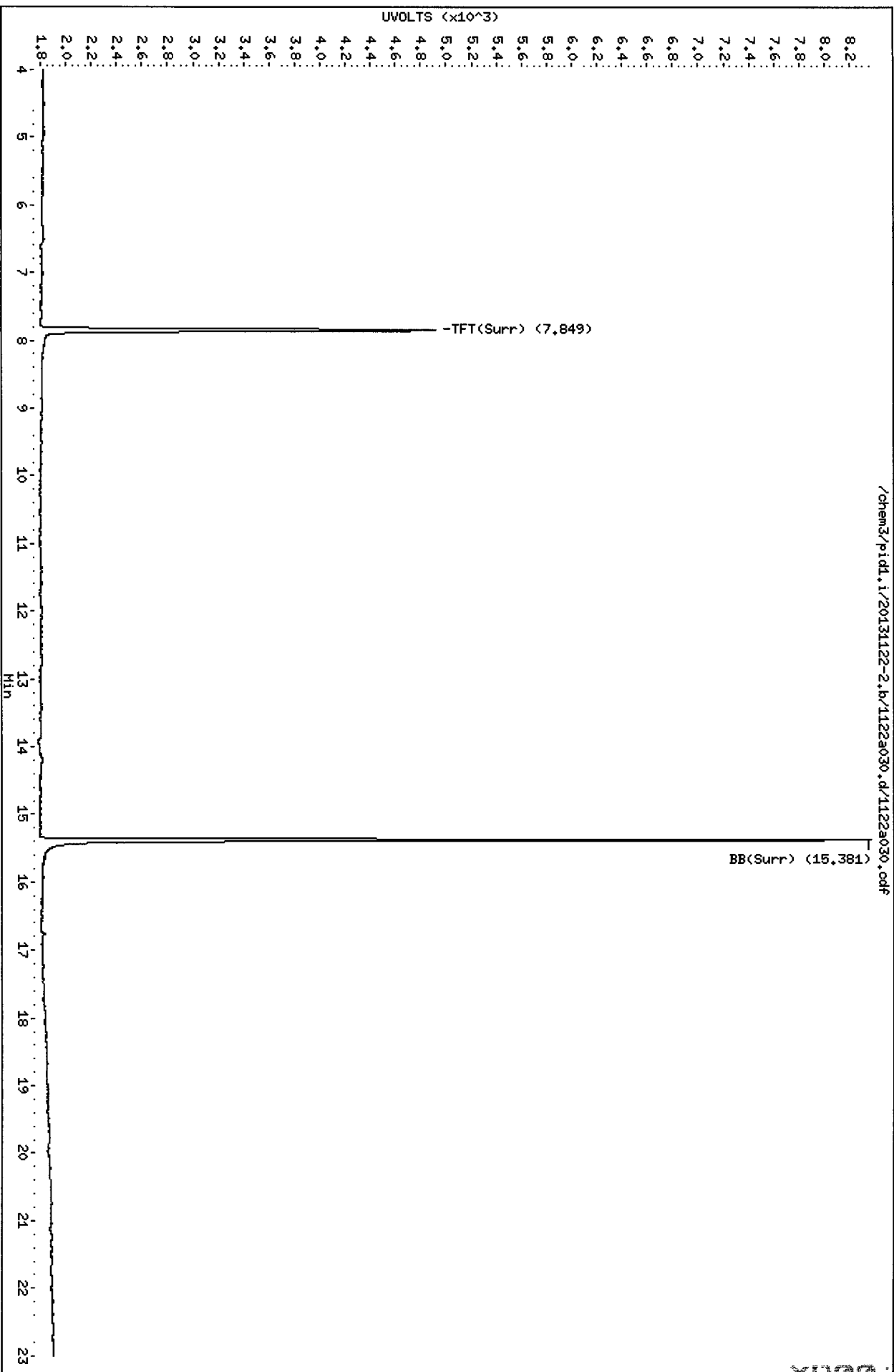
Sample Info: KP003

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18



1100 00059

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 12/09/13

A handwritten signature in black ink, appearing to be 'JP', written over the 'Data Release Authorized' text.

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

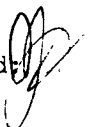
Client ID: MW-4R
ARI ID: 13-25772 XP00A

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.5 | 10.0 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | 0.1 |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | 0.7 |
| Sulfate | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.5 | 9.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 12/09/13

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

Client ID: MW-3
ARI ID: 13-25773 XP00B

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.2 | 5.8 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | 0.2 |
| Sulfate | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | 4.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 12/09/13

A handwritten signature in black ink, appearing to be a stylized name or initials.

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

Client ID: MW-2
ARI ID: 13-25774 XP00C

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.2 | 5.7 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | 0.2 |
| Sulfate | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | 4.2 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 12/09/13

A handwritten signature in black ink, appearing to be 'B. J.', written over the 'Data Release Authorized' text.

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

Client ID: MW-5
ARI ID: 13-25775 XP00D

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.5 | 10.0 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | 0.5 |
| Sulfate | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.5 | 9.7 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 12/09/13

A handwritten signature in black ink, appearing to be 'J. J.', written over the 'Data Release Authorized' text.

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

Client ID: MW-14
ARI ID: 13-25776 XP00E

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.5 | 10.2 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | < 0.1 U |
| Sulfate | 11/27/13 112713#1 | EPA 300.0 | mg/L | 1.0 | 39.1 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 12/09/13

A handwritten signature in black ink, appearing to be 'JL' or similar, written over the 'Data Release Authorized' text.

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/20/13
Date Received: 11/20/13

Client ID: MW-KA
ARI ID: 13-25777 XP00F

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.5 | 8.9 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | 0.1 |
| Sulfate | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | 1.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 12/09/13

A handwritten signature in black ink, appearing to be 'J. Crowser', written over the 'Data Release Authorized' text.

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/20/13
Date Received: 11/20/13

Client ID: MW-6
ARI ID: 13-25778 XP00G

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.5 | 9.0 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | 0.1 |
| Sulfate | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | 1.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 12/09/13

A handwritten signature in black ink, appearing to be 'MS', written over the 'Data Release Authorized' text.

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/20/13
Date Received: 11/20/13

Client ID: MW-13
ARI ID: 13-25779 XP00H

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.2 | 5.6 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | 0.4 |
| Sulfate | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | 3.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 12/09/13

A handwritten signature in black ink, appearing to be 'JW' or similar, written over the 'Data Release Authorized' text.

Project: Kens Auto
Event: 7168-11
Date Sampled: 11/20/13
Date Received: 11/20/13


Client ID: MW-15
ARI ID: 13-25780 XP00I

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 11/27/13 112713#1 | EPA 300.0 | mg/L | 0.2 | 6.8 |
| Bromide | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 11/20/13 112013#1 | EPA 300.0 | mg-N/L | 0.1 | 0.2 |
| Sulfate | 11/20/13 112013#1 | EPA 300.0 | mg/L | 0.1 | 4.0 |

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



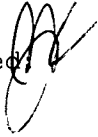
Matrix: Water
Data Release Authorized: 
Reported: 12/09/13

Project: Kens Auto
Event: 7168-11
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | Blank | ID |
|-----------|-----------|----------------------|--------|--------------------|----|
| Chloride | EPA 300.0 | 11/27/13 | mg/L | < 0.1 U | |
| Bromide | EPA 300.0 | 11/20/13 | mg/L | < 0.1 U | |
| N-Nitrate | EPA 300.0 | 11/20/13 | mg-N/L | < 0.1 U | |
| Sulfate | EPA 300.0 | 11/20/13 11/27/13 | mg/L | < 0.1 U < 0.1 U | |

STANDARD REFERENCE RESULTS-CONVENTIONALS
XP00-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 12/09/13

Project: Kens Auto
Event: 7168-11
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|--------------------------|-----------|----------------------|--------|------------|------------|-----------------|
| Chloride ERA 210312 | EPA 300.0 | 11/27/13 | mg/L | 2.9 | 3.0 | 96.7% |
| Bromide ERA 370911 | EPA 300.0 | 11/20/13 | mg/L | 2.9 | 3.0 | 96.7% |
| N-Nitrate ERA #220912 | EPA 300.0 | 11/20/13 | mg-N/L | 2.9 | 3.0 | 96.7% |
| Sulfate ERA 240312 | EPA 300.0 | 11/20/13 11/27/13 | mg/L | 3.0 2.9 | 3.0 3.0 | 100.0% 96.7% |

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MW-4R
SAMPLE

Lab Sample ID: XP00A

LIMS ID: 13-25772

Matrix: Water

Data Release Authorized: 

Reported: 11/26/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

7168-11

Date Sampled: 11/19/13

Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given RL


RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-4R
DUPLICATE

Lab Sample ID: XP00A
LIMS ID: 13-25772
Matrix: Water
Data Release Authorized: 
Reported: 11/26/13

QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---------|-----------------|--------|-----------|------|---------------|---|
| Lead | 200.8 | 0.1 U | 0.1 U | 0.0% | +/- 0.1 | L |

Reported in µg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-4R

MATRIX SPIKE

Lab Sample ID: XP00A
LIMS ID: 13-25772
Matrix: Water
Data Release Authorized:
Reported: 11/26/13



QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---------|-----------------|--------|-------|-------------|------------|---|
| Lead | 200.8 | 0.1 U | 23.5 | 25.0 | 94.0% | |

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked
NR-Not Recovered

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MW-3
SAMPLE

Lab Sample ID: XP00B

LIMS ID: 13-25773

Matrix: Water

Data Release Authorized: 

Reported: 11/26/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

7168-11

Date Sampled: 11/19/13

Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given RL


RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-2
SAMPLE

Lab Sample ID: XP00C
LIMS ID: 13-25774
Matrix: Water
Data Release Authorized 
Reported: 11/26/13

QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.1 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-5
SAMPLE

Lab Sample ID: XP00D
LIMS ID: 13-25775
Matrix: Water
Data Release Authorized:
Reported: 11/26/13



QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
7168-11
Date Sampled: 11/19/13
Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.2 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MW-14
SAMPLE

Lab Sample ID: XP00E

LIMS ID: 13-25776

Matrix: Water

Data Release Authorized: 

Reported: 11/26/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

7168-11

Date Sampled: 11/19/13

Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 4.5 | |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MW-KA
SAMPLE

Lab Sample ID: XP00F

LIMS ID: 13-25777

Matrix: Water

Data Release Authorized: 

Reported: 11/26/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

7168-11

Date Sampled: 11/20/13

Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.2 | |

U-Analyte undetected at given RL


RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-6
SAMPLE

Lab Sample ID: XP00G
LIMS ID: 13-25778
Matrix: Water
Data Release Authorized: 
Reported: 11/26/13

QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
7168-11
Date Sampled: 11/20/13
Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.2 | |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

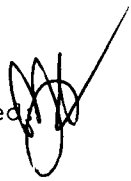
Page 1 of 1

**Sample ID: MW-13
SAMPLE**

Lab Sample ID: XP00H

LIMS ID: 13-25779

Matrix: Water

Data Release Authorized 

Reported: 11/26/13

QC Report No: XP00-Hart Crowser Inc.

Project: Kens Auto

7168-11

Date Sampled: 11/20/13

Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

**Sample ID: MW-15
SAMPLE**

Lab Sample ID: XP00I
LIMS ID: 13-25780
Matrix: Water
Data Release Authorized
Reported: 11/26/13



QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
7168-11
Date Sampled: 11/20/13
Date Received: 11/20/13

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Sample ID: METHOD BLANK

Page 1 of 1

Lab Sample ID: XP00MB
LIMS ID: 13-25773
Matrix: Water
Data Release Authorized:
Reported: 11/26/13



QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
7168-11
Date Sampled: NA
Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/22/13 | 200.8 | 11/25/13 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: XP00LCS
LIMS ID: 13-25773
Matrix: Water
Data Release Authorized
Reported: 11/26/13



QC Report No: XP00-Hart Crowser Inc.
Project: Kens Auto
7168-11
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|----------------|------------------------|--------------------|--------------------|-------------------|----------|
| Lead | 200.8 | 25.0 | 25.0 | 100% | |

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 6, 2014

Angie Goodwin
Hart Crowser, Inc.
1700 Westlake Avenue N. Suite 200
Seattle, WA 98109-3256

RE: Client Project: Ken's Auto, 7168-11
ARI Job No.: YA81

Dear Angie:

Please find enclosed the original Chain-of-Custody record (COC), sample receipt documentation, and the final data for samples from the project referenced above. Analytical Resources, Inc. (ARI) received four water samples and one trip blank on February 27, 2014. The samples were received in good condition with a cooler temperature of 0.9°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for NWTPH-Gx plus BTEX and Anions, as requested on the COC.

There were no anomalies associated with the analyses.

Sincerely,
ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink that reads "Kelly Bottem".

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211
Enclosures

cc: eFile YA81

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **YAS1** Turn-around Requested: **Standard**
 ARI Client Company: **HART CROWSER** Phone: **(206) 826-4495**
 Client Contact: **ANGIE GOODWIN**
 Client Project Name: **KEN'S AUTO**
 Client Project #: **7168-11**



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Page: **1** of **1**
 Date: **2/27/14** Ice Present? **Y**
 No. of Coolers: **1** Cooler Temps: **0.9**

Analysis Requested

Notes/Comments

| Sample ID | Date | Time | Matrix | No Containers | Analysis Requested | | | | Notes/Comments |
|-----------|---------|------|--------|---------------|--------------------|----------|-------|--|----------------|
| | | | | | 1PH-6/ | NO3/SO4/ | Br/Cu | | |
| MW-4 | 2/27/14 | 1000 | WATER | 3 | X | X | | | |
| MW-14 | ↓ | 1100 | ↓ | 3 | X | X | | | |
| MW-6 | ↓ | 1200 | ↓ | 3 | X | X | | | |
| MW-13 | ↓ | 1235 | ↓ | 3 | X | X | | | |
| TB | 2/24/14 | — | ↓ | 2 | X | | | | TRIP BLANK |

Comments/Special Instructions: **For gas chromat, please report to the curve.**

| Relinquished by (Signature) | Received by (Signature) |
|-------------------------------------|---------------------------------------|
| <i>Andrew Kaporas</i> | <i>Jennifer Mittsag</i> |
| Printed Name: Andrew Kaporas | Printed Name: Jennifer Mittsag |
| Company: Hart Crowser | Company: ARI |
| Date & Time: 2/27/14 1530 | Date & Time: 2/27/14 1530 |

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Hart Crowzen

Project Name: Ken's Auto

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: YASI

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 0.9

Time _____

Temp Gun ID#: 90877952

Cooler Accepted by: JM Date 2/27/14 Time 1530

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? .. Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs).. NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA 2/24/14

Was Sample Split by ARI. NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by JM Date: 2/27/14 Time: 1535

**** Notify Project Manager of discrepancies or concerns ****

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
| <u>MW-4R</u> | <u>MW-4</u> | | |
| | | | |
| | | | |

Additional Notes, Discrepancies, & Resolutions:

TRB = sm in 2582
→ Used ID from container.
By: JM Date: 2/27/14



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: YA81
Client: Hart Crowser Inc.
Project Event: 7168-11
Project Name: Ken's Auto

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|-----------|------------|-------------|--------|------------------|----------------|
| 1. MW-4R | YA81A | 14-3276 | Water | 02/27/14 10:00 | 02/27/14 15:30 |
| 2. MW-14 | YA81B | 14-3277 | Water | 02/27/14 11:00 | 02/27/14 15:30 |
| 3. MW-6 | YA81C | 14-3278 | Water | 02/27/14 12:00 | 02/27/14 15:30 |
| 4. MW-13 | YA81D | 14-3279 | Water | 02/27/14 12:35 | 02/27/14 15:30 |
| 5. TB | YA81E | 14-3280 | Water | 02/27/14 | 02/27/14 15:30 |

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-4R
 SAMPLE

Lab Sample ID: YA81A
 LIMS ID: 14-3276
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 03/04/14

QC Report No: YA81-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-11
 Date Sampled: 02/27/14
 Date Received: 02/27/14

Date Analyzed: 03/03/14 15:07
 Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 96.1% |
| Bromobenzene | 93.9% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.5% |
| Bromobenzene | 94.9% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-14

SAMPLE

Lab Sample ID: YA81B

LIMS ID: 14-3277

Matrix: Water

Data Release Authorized: *VD*

Reported: 03/14/14

QC Report No: YA81-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-11

Date Sampled: 02/27/14

Date Received: 02/27/14

Date Analyzed: 03/03/14 16:35

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|---------------------|-------------|-------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | 1.5 |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | 0.54 |

| | | | |
|------------------------------------|-------------|------------|-----------------------|
| Gasoline Range Hydrocarbons | 0.10 | 1.4 | GAS ID GAS |
|------------------------------------|-------------|------------|-----------------------|

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.7% |
| Bromobenzene | 98.3% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 100% |
| Bromobenzene | 103% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-6

SAMPLE

Lab Sample ID: YA81C

LIMS ID: 14-3278

Matrix: Water

Data Release Authorized: *MMW*

Reported: 03/04/14

QC Report No: YA81-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-11

Date Sampled: 02/27/14

Date Received: 02/27/14

Date Analyzed: 03/03/14 17:04

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | |
|-------------|-----------------------------|------|----------|------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 96.6% |
| Bromobenzene | 96.7% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.8% |
| Bromobenzene | 97.4% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-13
 SAMPLE

Lab Sample ID: YA81D
 LIMS ID: 14-3279
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 03/04/14

QC Report No: YA81-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-11
 Date Sampled: 02/27/14
 Date Received: 02/27/14

Date Analyzed: 03/03/14 17:33
 Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | |
|-------------|-----------------------------|------|----------|------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 94.6% |
| Bromobenzene | 95.7% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 95.8% |
| Bromobenzene | 97.8% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TB

SAMPLE

Lab Sample ID: YA81E

LIMS ID: 14-3280

Matrix: Water

Data Release Authorized: *WW*

Reported: 03/04/14

QC Report No: YA81-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-11

Date Sampled: 02/27/14

Date Received: 02/27/14

Date Analyzed: 03/03/14 12:12

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|------------------------------------|-----------------------------|-------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |
| BETX Surrogate Recovery | | | | |
| | Trifluorotoluene | 99.5% | | |
| | Bromobenzene | 96.9% | | |
| Gasoline Surrogate Recovery | | | | |
| | Trifluorotoluene | 100% | | |
| | Bromobenzene | 97.7% | | |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-030314

METHOD BLANK

Lab Sample ID: MB-030314

LIMS ID: 14-3276

Matrix: Water

Data Release Authorized: *MW*

Reported: 03/04/14

QC Report No: YA81-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-11

Date Sampled: NA

Date Received: NA

Date Analyzed: 03/03/14 11:25

Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | |
|-------------|-----------------------------|------|----------|------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 94.6% |
| Bromobenzene | 95.4% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 96.5% |
| Bromobenzene | 96.2% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: YA81
Matrix: Water

QC Report No: YA81-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-11

| <u>Client ID</u> | <u>TFT</u> | <u>BBZ</u> | <u>TOT OUT</u> |
|------------------|------------|------------|----------------|
| MB-030314 | 94.6% | 95.4% | 0 |
| LCS-030314 | 104% | 99.4% | 0 |
| LCSD-030314 | 102% | 97.0% | 0 |
| MW-4R | 96.1% | 93.9% | 0 |
| MW-14 | 97.7% | 98.3% | 0 |
| MW-6 | 96.6% | 96.7% | 0 |
| MW-13 | 94.6% | 95.7% | 0 |
| TB | 99.5% | 96.9% | 0 |

| | | <u>LCS/MB LIMITS</u> | <u>QC LIMITS</u> |
|--------------------------|------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (5 mL PV) | (80-120) | (80-120) |
| (TFT) = Trifluorotoluene | (15 mL PV) | (79-120) | (80-120) |
| (BBZ) = Bromobenzene | (5 mL PV) | (80-120) | (77-120) |
| (BBZ) = Bromobenzene | (15 mL PV) | (79-120) | (80-120) |

Log Number Range: 14-3276 to 14-3280

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: YA81
Matrix: Water

QC Report No: YA81-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-11

| <u>Client ID</u> | <u>TFT</u> | <u>BBZ</u> | <u>TOT OUT</u> |
|------------------|------------|------------|----------------|
| MB-030314 | 96.5% | 96.2% | 0 |
| LCS-030314 | 111% | 105% | 0 |
| LCSD-030314 | 109% | 102% | 0 |
| MW-4R | 97.5% | 94.9% | 0 |
| MW-14 | 100% | 103% | 0 |
| MW-6 | 97.8% | 97.4% | 0 |
| MW-13 | 95.8% | 97.8% | 0 |
| TB | 100% | 97.7% | 0 |

| | <u>LCS/MB LIMITS</u> | <u>QC LIMITS</u> |
|--------------------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (80-120) | (80-120) |
| (BBZ) = Bromobenzene | (80-120) | (80-120) |

Log Number Range: 14-3276 to 14-3280

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-030314
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030314
LIMS ID: 14-3276
Matrix: Water
Data Release Authorized: *MW*
Reported: 03/04/14

QC Report No: YA81-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-11
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 03/03/14 10:27
LCSD: 03/03/14 10:56
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

| Analyte | LCS | Spike | LCS | LCSD | Spike | LCS | RPD |
|--------------|------|-----------|----------|------|------------|----------|------|
| | | Added-LCS | Recovery | | Added-LCSD | Recovery | |
| Benzene | 1.83 | 2.10 | 87.1% | 1.95 | 2.10 | 92.9% | 6.3% |
| Toluene | 34.2 | 34.8 | 98.3% | 35.0 | 34.8 | 101% | 2.3% |
| Ethylbenzene | 15.9 | 17.4 | 91.4% | 16.2 | 17.4 | 93.1% | 1.9% |
| m,p-Xylene | 58.7 | 62.7 | 93.6% | 59.8 | 62.7 | 95.4% | 1.9% |
| o-Xylene | 31.5 | 34.6 | 91.0% | 32.3 | 34.6 | 93.4% | 2.5% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 104% | 102% |
| Bromobenzene | 99.4% | 97.0% |

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-030314

LAB CONTROL SAMPLE

Lab Sample ID: LCS-030314

LIMS ID: 14-3276

Matrix: Water

Data Release Authorized: *ThW*

Reported: 03/04/14

QC Report No: YA81-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-11

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 03/03/14 10:27

LCSD: 03/03/14 10:56

Instrument/Analyst LCS: PID1/PKC

LCSD: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

| Analyte | LCS | Spike | LCS | LCSD | Spike | LCS | RPD |
|-----------------------------|------|-----------|----------|------|------------|----------|------|
| | | Added-LCS | Recovery | | Added-LCSD | Recovery | |
| Gasoline Range Hydrocarbons | 2.50 | 2.50 | 100% | 2.60 | 2.50 | 104% | 3.9% |

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCSD |
|------------------|------|------|
| Trifluorotoluene | 111% | 109% |
| Bromobenzene | 105% | 102% |

SAMPLE RESULTS-CONVENTIONALS
YA81-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 03/05/14

A handwritten signature in black ink, appearing to be 'JK' or similar, written over the 'Data Release Authorized' line.

Project: Ken's Auto
Event: 7168-11
Date Sampled: 02/27/14
Date Received: 02/27/14


Client ID: MW-4R
ARI ID: 14-3276 YA81A

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| Chloride | 03/03/14 030314#1 | EPA 300.0 | mg/L | 0.5 | 8.5 |
| Bromide | 02/27/14 022714#1 | EPA 300.0 | mg/L | 0.1 | 0.1 |
| N-Nitrate | 02/28/14 022814#1 | EPA 300.0 | mg-N/L | 0.5 | 11.5 |
| Sulfate | 03/04/14 030414#1 | EPA 300.0 | mg/L | 1.0 | 44.0 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YA81-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 03/05/14

Project: Ken's Auto
Event: 7168-11
Date Sampled: 02/27/14
Date Received: 02/27/14


Client ID: MW-14
ARI ID: 14-3277 YA81B

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 03/03/14 030314#1 | EPA 300.0 | mg/L | 0.5 | 11.4 |
| Bromide | 02/27/14 022714#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 02/28/14 022814#1 | EPA 300.0 | mg-N/L | 0.5 | 17.4 |
| Sulfate | 03/03/14 030314#1 | EPA 300.0 | mg/L | 1.0 | 39.0 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YA81-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 03/05/14

Project: Ken's Auto
Event: 7168-11
Date Sampled: 02/27/14
Date Received: 02/27/14

Client ID: MW-6
ARI ID: 14-3278 YA81C

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 03/03/14 030314#1 | EPA 300.0 | mg/L | 0.5 | 15.7 |
| Bromide | 02/27/14 022714#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 02/27/14 022714#1 | EPA 300.0 | mg-N/L | 0.1 | 0.6 |
| Sulfate | 03/03/14 030314#1 | EPA 300.0 | mg/L | 0.2 | 8.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YA81-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 03/05/14

A handwritten signature in black ink, appearing to be 'M. J. ...', written over the 'Data Release Authorized' text.

Project: Ken's Auto
Event: 7168-11
Date Sampled: 02/27/14
Date Received: 02/27/14

Client ID: MW-13
ARI ID: 14-3279 YA81D

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| Chloride | 03/03/14 030314#1 | EPA 300.0 | mg/L | 1.0 | 26.6 |
| Bromide | 02/27/14 022714#1 | EPA 300.0 | mg/L | 0.1 | < 0.1 U |
| N-Nitrate | 02/27/14 022714#1 | EPA 300.0 | mg-N/L | 0.1 | 0.5 |
| Sulfate | 03/03/14 030314#1 | EPA 300.0 | mg/L | 0.2 | 4.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
YA81-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 03/05/14

A handwritten signature in black ink, appearing to be 'WJ', is written over the 'Data Release Authorized' text.

Project: Ken's Auto
Event: 7168-11
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | Blank | ID |
|-----------|-----------|----------------------|--------|--------------------|----|
| Chloride | EPA 300.0 | 03/03/14 | mg/L | < 0.1 U | |
| Bromide | EPA 300.0 | 02/27/14 | mg/L | < 0.1 U | |
| N-Nitrate | EPA 300.0 | 02/27/14 02/28/14 | mg-N/L | < 0.1 U < 0.1 U | |
| Sulfate | EPA 300.0 | 03/03/14 03/04/14 | mg/L | < 0.1 U < 0.1 U | |

STANDARD REFERENCE RESULTS-CONVENTIONALS
YA81-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 03/05/14

Project: Ken's Auto
Event: 7168-11
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|--------------------------|-----------|----------------------|--------|------------|------------|------------------|
| Chloride ERA 210312 | EPA 300.0 | 03/03/14 | mg/L | 2.8 | 3.0 | 93.3% |
| Bromide ERA 370911 | EPA 300.0 | 02/27/14 | mg/L | 3.0 | 3.0 | 100.0% |
| N-Nitrate ERA #220912 | EPA 300.0 | 02/27/14 02/28/14 | mg-N/L | 3.0 2.9 | 3.0 3.0 | 100.0% 96.7% |
| Sulfate ERA 240312 | EPA 300.0 | 03/03/14 03/04/14 | mg/L | 3.0 3.1 | 3.0 3.0 | 100.0% 103.3% |



Analytical Resources, Incorporated
Analytical Chemists and Consultants

June 4, 2014

Angie Goodwin
Hart Crowser, Inc.
1700 Westlake Avenue N. Suite 200
Seattle, WA 98109-3256

RE: Client Project: Ken's Auto, 7168-10
ARI Job No.: YL36

Dear Angie:

Please find enclosed the original Chain-of-Custody record (COC), sample receipt documentation, and the final data for samples from the project referenced above. Analytical Resources, Inc. (ARI) received four water samples and one trip blank on May 23, 2014. The samples were received in good condition with a cooler temperature of 10.8°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for NWTPH-Gx plus BTEX and Anions, as requested on the COC.

There were no anomalies associated with the analyses.

Sincerely,
ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Kelly Bottem".

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211
Enclosures

cc: eFile YL36

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **136** Turn-around Requested: **Standard** Page: **1** of **1**

ARI Client Company: **Hart Crowser** Phone: **(206) 826-4495** Date: **5/23/2014** Ice Present? **Y**

Client Contact: **Angie Goodwin** No. of Coolers: **1** Cooler Temps: **10.8**

Client Project Name: **Ken's Auto** Samplers: **MS & MM**

Client Project #: **7168-10**

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)
 www.arilabs.com



| Sample ID | Date | Time | Matrix | No Containers | Analysis Requested | | | | Notes/Comments |
|--|-----------|------|--------|---------------|---|---------|--|--|----------------|
| | | | | | TPH-61 | N03/S04 | | | |
| MW-14 | 5/23/2014 | 1010 | Water | 3 | X | X | | | |
| MW-4R | 5/23/2014 | 1045 | | 3 | X | X | | | |
| MW-13 | 5/23/2014 | 1120 | | 3 | X | X | | | |
| MW-6 | 5/23/2014 | 1205 | Y | 3 | X | X | | | |
| T0 | 5/21/2014 | - | ↓ | 2 | X | | | | Trip Back |
| Comments/Special Instructions For Gas Benzene, Please report to the Curve. | | | | | | | | | |
| Relinquished by: (Signature) <i>Marc Miller</i> Printed Name: Marc Miller Company: Hart Crowser Date & Time: 5/23/2014 1400 | | | | | Received by: (Signature) <i>Jennifer Milop</i> Printed Name: Jennifer Milop Company: ARI Date & Time: 5/23/14 1525 | | | | |

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

YL36: 00002



Cooler Receipt Form

ARI Client: Hart Crowser

Project Name: Ken's Auto

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: YL36

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)

Were custody papers included with the cooler? YES (YES) NO

Were custody papers properly filled out (ink, signed, etc.) YES (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 10.8

Time: _____

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 5/23/14 Time: 1525

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... (Bubble Wrap) (Wet Ice) Gel Packs Baggies (Foam Block) Paper Other: _____

Was sufficient ice used (if appropriate)? NA (YES) NO

Were all bottles sealed in individual plastic bags? YES (NO)

Did all bottles arrive in good condition (unbroken)? (YES) NO

Were all bottle labels complete and legible? (YES) NO

Did the number of containers listed on COC match with the number of containers received? (YES) NO

Did all bottle labels and tags agree with custody papers? (YES) NO

Were all bottles used correct for the requested analyses? (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES NO

Were all VOC vials free of air bubbles? NA (YES) NO

Was sufficient amount of sample sent in each bottle? (YES) NO

Date VOC Trip Blank was made at ARI: NA (5/21/14)

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 5/23/14 Time: 1531

**** Notify Project Manager of discrepancies or concerns ****

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
| | | | |
| | | | |
| | | | |

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

| | | | |
|-----------------------------------|------------------------------|--|--|
| <p>Small Air Bubbles -2mm</p> | <p>Peabubbles 2-4 mm</p> | <p>LARGE Air Bubbles > 4 mm</p> | <p>Small → "sm" (< 2 mm)</p> <p>Peabubbles → "pb" (2 to < 4 mm)</p> <p>Large → "lg" (4 to < 6 mm)</p> <p>Headspace → "hs" (> 6 mm)</p> |
|-----------------------------------|------------------------------|--|--|



Cooler Temperature Compliance Form

4L36

| Cooler#: | Temperature(°C): | Sample ID | Bottle Count | Bottle Type |
|----------|------------------|--|--------------|-------------|
| 1 | 10.8 | All samples associated with this job were received at a temp greater than 6°C. | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Cooler#: | Temperature(°C): | Sample ID | Bottle Count | Bottle Type |
|----------|------------------|-----------|--------------|-------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Cooler#: | Temperature(°C): | Sample ID | Bottle Count | Bottle Type |
|----------|------------------|-----------|--------------|-------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Cooler#: | Temperature(°C): | Sample ID | Bottle Count | Bottle Type |
|----------|------------------|-----------|--------------|-------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Completed by: JIM Date: 5/23/14 Time: 1531

Sample ID Cross Reference Report



ARI Job No: YL36
Client: Hart Crowser Inc.
Project Event: 7168-10
Project Name: Ken's Auto

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|-----------|------------|-------------|--------|------------------|----------------|
| 1. MW-14 | YL36A | 14-10183 | Water | 05/23/14 10:10 | 05/23/14 15:25 |
| 2. MW-4R | YL36B | 14-10184 | Water | 05/23/14 10:45 | 05/23/14 15:25 |
| 3. MW-13 | YL36C | 14-10185 | Water | 05/23/14 11:20 | 05/23/14 15:25 |
| 4. MW-6 | YL36D | 14-10186 | Water | 05/23/14 12:05 | 05/23/14 15:25 |
| 5. TB | YL36E | 14-10187 | Water | 05/23/14 | 05/23/14 15:25 |


ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

**Sample ID: MW-14
SAMPLE**

Lab Sample ID: YL36A
LIMS ID: 14-10183
Matrix: Water
Data Release Authorized: 
Reported: 06/04/14

QC Report No: YL36-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-10
Date Sampled: 05/23/14
Date Received: 05/23/14

Date Analyzed: 05/29/14 20:34
Instrument/Analyst: PID1/JLW

Purge Volume: 5.0 mL
Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|------------------------------------|-------------|-------------|-----------------------|
| Gasoline Range Hydrocarbons | 0.10 | 0.11 | GAS ID GRO |
|------------------------------------|-------------|-------------|-----------------------|

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 107% |
| Bromobenzene | 100% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.4% |
| Bromobenzene | 95.1% |


BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-4R
SAMPLE

Lab Sample ID: YL36B
 LIMS ID: 14-10184
 Matrix: Water
 Data Release Authorized: 
 Reported: 06/04/14

QC Report No: YL36-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-10
 Date Sampled: 05/23/14
 Date Received: 05/23/14

Date Analyzed: 05/29/14 21:03
 Instrument/Analyst: PID1/JLW

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 105% |
| Bromobenzene | 100% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 95.6% |
| Bromobenzene | 95.5% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW-13

SAMPLE

Lab Sample ID: YL36C

LIMS ID: 14-10185

Matrix: Water

Data Release Authorized: 

Reported: 06/04/14

QC Report No: YL36-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 05/23/14

Date Received: 05/23/14

Date Analyzed: 05/29/14 21:33

Instrument/Analyst: PID1/JLW

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|-----------------------------|------|----------|---------------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |
|-----------------------------|------|----------|---------------|

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 107% |
| Bromobenzene | 99.9% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.6% |
| Bromobenzene | 95.5% |


BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Sample ID: MW-6
SAMPLE

Lab Sample ID: YL36D
LIMS ID: 14-10186
Matrix: Water
Data Release Authorized: 
Reported: 06/04/14

QC Report No: YL36-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-10
Date Sampled: 05/23/14
Date Received: 05/23/14

Date Analyzed: 05/29/14 23:00
Instrument/Analyst: PID1/JLW

Purge Volume: 5.0 mL
Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | 6.9 |
| 179601-23-1 | m,p-Xylene | 0.50 | 0.55 |
| 95-47-6 | o-Xylene | 0.25 | 0.58 |

Gasoline Range Hydrocarbons 0.10 0.92 GAS ID
GAS

BETX Surrogate Recovery

Trifluorotoluene 104%
Bromobenzene 99.6%

Gasoline Surrogate Recovery

Trifluorotoluene 95.7%
Bromobenzene 94.1%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

**Sample ID: TB
SAMPLE**

Lab Sample ID: YL36E

LIMS ID: 14-10187

Matrix: Water

Data Release Authorized.

Reported: 06/04/14

QC Report No: YL36-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 05/23/14

Date Received: 05/23/14

Date Analyzed: 05/29/14 12:47

Instrument/Analyst: PID1/JLW

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|-----------------------------|------|----------|---------------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | GAS ID --- |
|-----------------------------|------|----------|---------------|

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 112% |
| Bromobenzene | 97.7% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 99.8% |
| Bromobenzene | 94.4% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MB-052914

METHOD BLANK

Lab Sample ID: MB-052914

LIMS ID: 14-10183

Matrix: Water

Data Release Authorized: 

Reported: 06/04/14

QC Report No: YL36-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed: 05/29/14 11:25

Instrument/Analyst: PID1/JLW

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 113% |
| Bromobenzene | 102% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 102% |
| Bromobenzene | 97.5% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: YL36
Matrix: Water

QC Report No: YL36-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-10

| Client ID | TFT | BBZ | TOT OUT |
|------------------|------------|------------|----------------|
| MB-052914 | 113% | 102% | 0 |
| LCS-052914 | 106% | 97.1% | 0 |
| LCSD-052914 | 104% | 94.1% | 0 |
| MW-14 | 107% | 100% | 0 |
| MW-4R | 105% | 100% | 0 |
| MW-13 | 107% | 99.9% | 0 |
| MW-6 | 104% | 99.6% | 0 |
| TB | 112% | 97.7% | 0 |

| | | LCS/MB LIMITS | QC LIMITS |
|--------------------------|------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (5 mL PV) | (80-120) | (80-120) |
| (TFT) = Trifluorotoluene | (15 mL PV) | (79-120) | (80-120) |
| (BBZ) = Bromobenzene | (5 mL PV) | (80-120) | (77-120) |
| (BBZ) = Bromobenzene | (15 mL PV) | (79-120) | (80-120) |

Log Number Range: 14-10183 to 14-10187

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: YL36
Matrix: Water

QC Report No: YL36-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-10

| Client ID | TFT | BBZ | TOT OUT |
|------------------|------------|------------|----------------|
| MB-052914 | 102% | 97.5% | 0 |
| LCS-052914 | 96.9% | 91.9% | 0 |
| LCSD-052914 | 94.0% | 89.8% | 0 |
| MW-14 | 97.4% | 95.1% | 0 |
| MW-4R | 95.6% | 95.5% | 0 |
| MW-13 | 97.6% | 95.5% | 0 |
| MW-6 | 95.7% | 94.1% | 0 |
| TB | 99.8% | 94.4% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|--------------------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (80-120) | (80-120) |
| (BBZ) = Bromobenzene | (80-120) | (80-120) |

Log Number Range: 14-10183 to 14-10187

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: LCS-052914

LAB CONTROL SAMPLE

Lab Sample ID: LCS-052914

LIMS ID: 14-10183

Matrix: Water

Data Release Authorized: 

Reported: 06/04/14

QC Report No: YL36-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 05/29/14 10:27

LCS D: 05/29/14 10:56

Instrument/Analyst LCS: PID1/JLW

LCS D: PID1/JLW

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCS D: 1.0

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCS D | Spike Added-LCS D | LCS D Recovery | RPD |
|-----------------------------|------|--------------------|-----------------|-------|----------------------|-------------------|------|
| | | | | | | | |
| Gasoline Range Hydrocarbons | 0.90 | 1.00 | 90.0% | 0.89 | 1.00 | 89.0% | 1.1% |

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCS D |
|------------------|-------|-------|
| Trifluorotoluene | 96.9% | 94.0% |
| Bromobenzene | 91.9% | 89.8% |

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1


Sample ID: LCS-052914

LAB CONTROL SAMPLE

Lab Sample ID: LCS-052914

LIMS ID: 14-10183

Matrix: Water

Data Release Authorized: 

Reported: 06/04/14

QC Report No: YL36-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 05/29/14 10:27

LCSD: 05/29/14 10:56

Instrument/Analyst LCS: PID1/JLW

LCSD: PID1/JLW

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|----------------|------------|----------------------------|-------------------------|-------------|-----------------------------|--------------------------|------------|
| Benzene | 7.63 | 7.00 | 109% | 7.46 | 7.00 | 107% | 2.3% |
| Toluene | 58.4 | 49.4 | 118% | 58.9 | 49.4 | 119% | 0.9% |
| Ethylbenzene | 13.8 | 12.3 | 112% | 13.8 | 12.3 | 112% | 0.0% |
| m,p-Xylene | 44.6 | 40.0 | 112% | 44.5 | 40.0 | 111% | 0.2% |
| o-Xylene | 17.1 | 15.3 | 112% | 17.1 | 15.3 | 112% | 0.0% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

| | LCS | LCSD |
|------------------|------------|-------------|
| Trifluorotoluene | 106% | 104% |
| Bromobenzene | 97.1% | 94.1% |

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pidl.i/20140529-1.b/0529a006.d ARI ID: MB0529
 Data file 2: /chem3/pidl.i/20140529-2.b/0529a006.d Client ID:
 Method: /chem3/pidl.i/20140529-2.b/PIDB.m Injection Date: 29-MAY-2014 11:25
 Instrument: pidl.i Matrix: WATER
 Gas Ical Date: 20-MAR-2014 Dilution Factor: 1.000
 BETX Ical Date: 20-MAR-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|-----------|
| 7.834 | 0.000 | 2723 | 34804 | 102.5 | TFT(Surr) |
| 15.378 | 0.001 | 1626 | 14644 | 97.5 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 (9.76 to 17.90) | 324574 | 0 | 0.000 |
| 8015C 2MP-TMB (4.16 to 16.20) | 612077 | 0 | 0.000 |
| AK101 nC6-nC10 (4.66 to 15.10) | 460138 | 0 | 0.000 |
| NWTPHG Tol-Nap (9.76 to 18.90) | 336167 | 0 | 0.000 |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-----------|
| 7.835 | 0.001 | 2849 | 112.9 | TFT(Surr) |
| 15.380 | 0.001 | 5918 | 102.1 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|--------------|
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

JW
5/30/14

\ Indicates Peak Area was used for quantitation instead of Height
 I Indicates peak was manually integrated

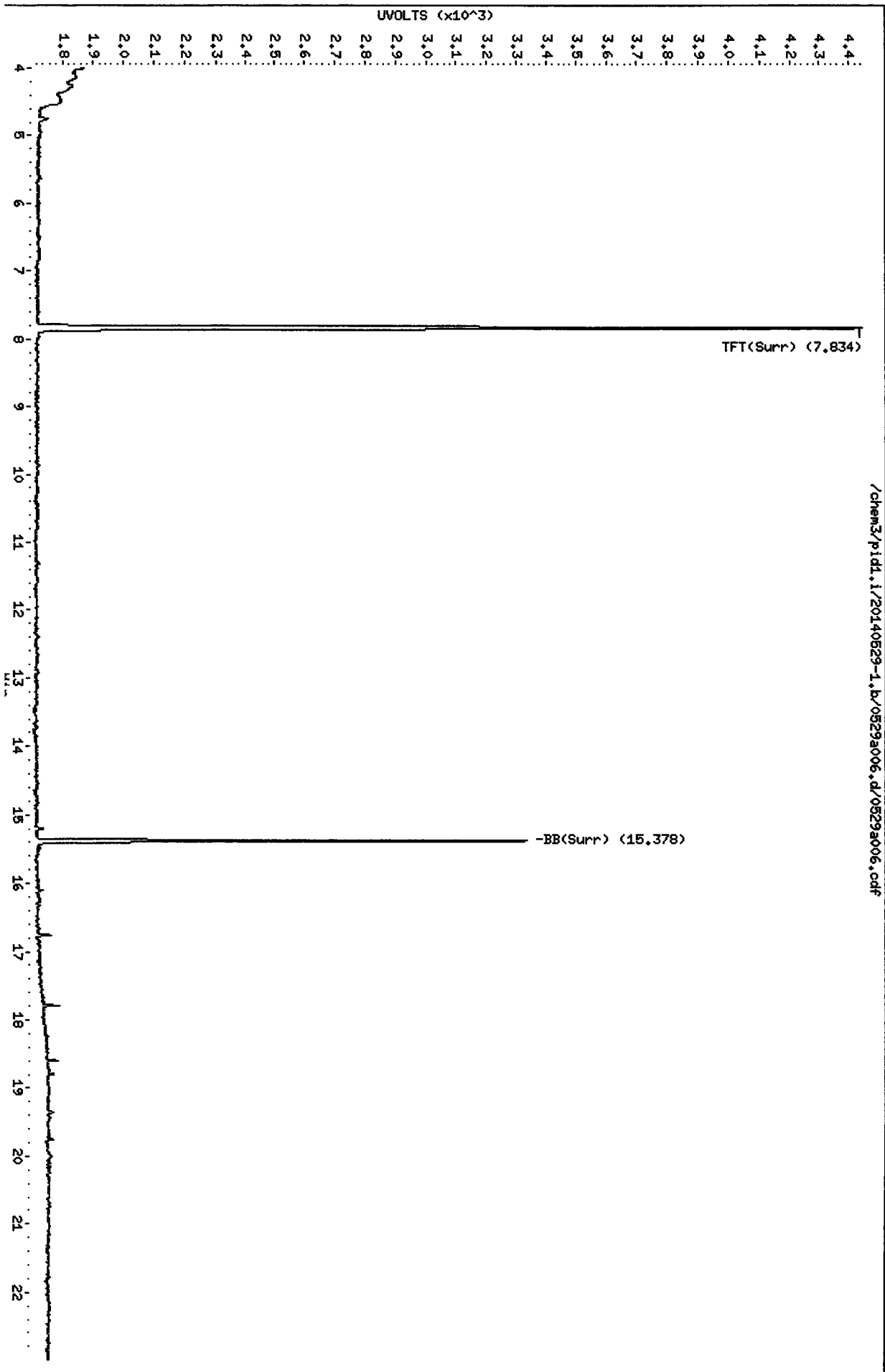
Data File: /chem3/pid1.i/20140529-1.b/0529a006.d
Date: 29-MAY-2014 11:25
Client ID:
Sample Info: MB0529

Instrument: pid1.i

Column phase: RTX 502-2 FID

Operator: LH
Column diameter: 0.18

/chem3/pid1.i/20140529-1.b/0529a006.d/0529a006.cdf



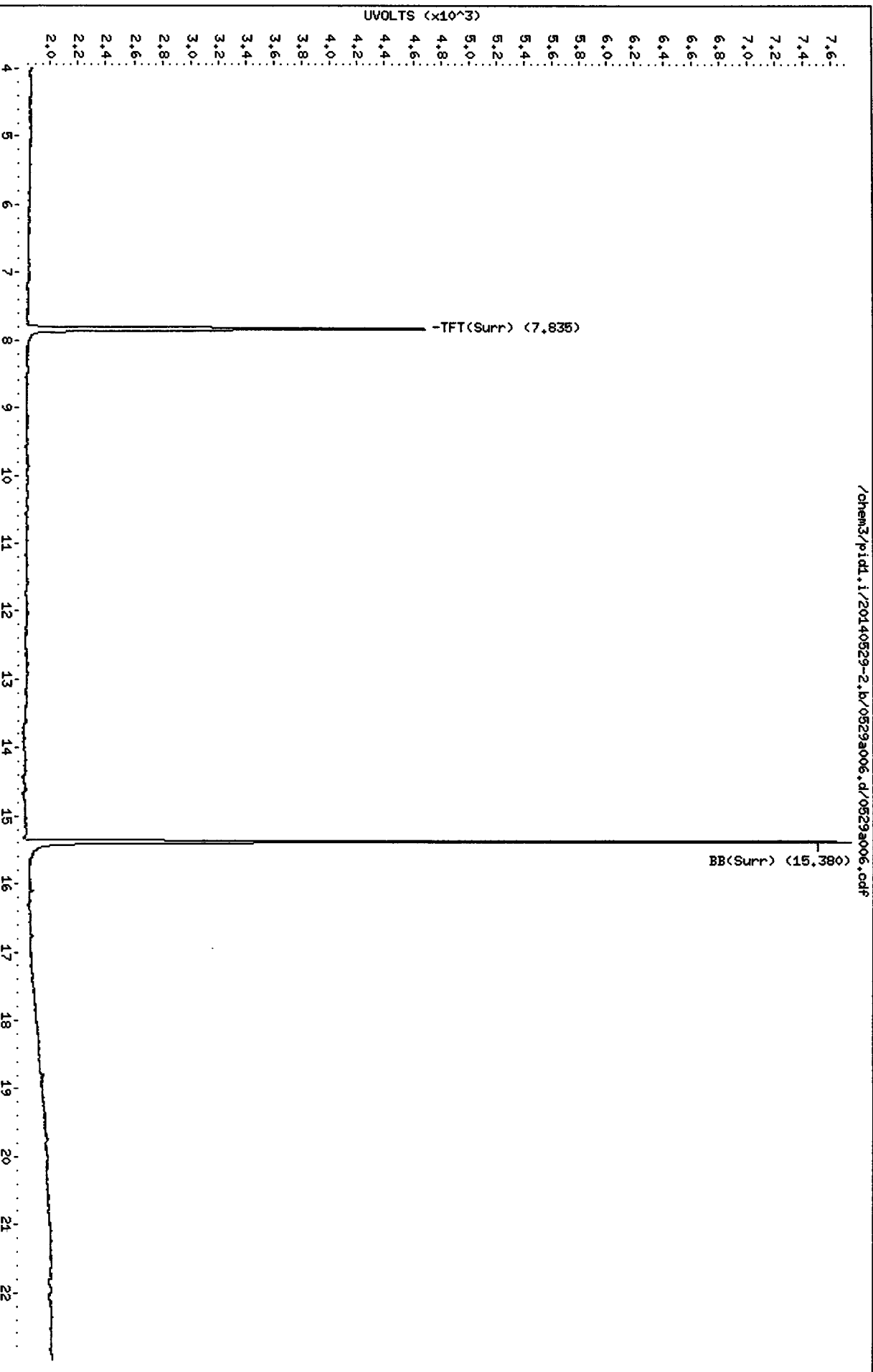
Data File: /chem3/pid1.i/20140529-2.b/0529a006.d
Date : 29-MAY-2014 11:25
Client ID:
Sample Info: HB0529

Instrument: pid1.i

Column phase: RTX 502-2 PID

Operator: LH
Column diameter: 0.18

/chem3/pid1.i/20140529-2.b/0529a006.d/0529a006.pdf



Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140529-1.b/0529a004.d ARI ID: LCS0529
 Data file 2: /chem3/pid1.i/20140529-2.b/0529a004.d Client ID:
 Method: /chem3/pid1.i/20140529-2.b/PIDB.m Injection Date: 29-MAY-2014 10:27
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 20-MAR-2014 Dilution Factor: 1.000
 BETX Ical Date: 20-MAR-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|------|-----------|
| 7.834 | 0.001 | 2573 | 35067 | 96.9 | TFT(Surr) |
| 15.378 | 0.001 | 1533 | 14199 | 91.9 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 (9.76 to 17.90) | 324574 | 293200 | 0.903 |
| 8015C 2MP-TMB (4.16 to 16.20) | 612077 | 580235 | 0.948 |
| AK101 nC6-nC10 (4.66 to 15.10) | 460138 | 432158 | 0.939 |
| NWTPHG Tol-Nap (9.76 to 18.90) | 336167 | 301772 | 0.898 |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-----------|
| 7.836 | 0.001 | 2680 | 106.2 | TFT(Surr) |
| 15.380 | 0.000 | 5628 | 97.1 | BB(Surr) |

JW
5/30/14

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|--------|--------|----------|--------|--------------|
| 7.002 | 0.000 | 1383 | 7.63 | Benzene |
| 9.863 | 0.001 | 9240 | 58.45 | Toluene |
| 12.758 | 0.000 | 1974 | 13.79 | Ethylbenzene |
| 12.921 | 0.003 | 6978 | 44.65 | M/P-Xylene |
| 13.866 | 0.001 | 2174 | 17.14 | O-Xylene |
| 4.516 | -0.006 | 186 | 2.64 | MTBE |

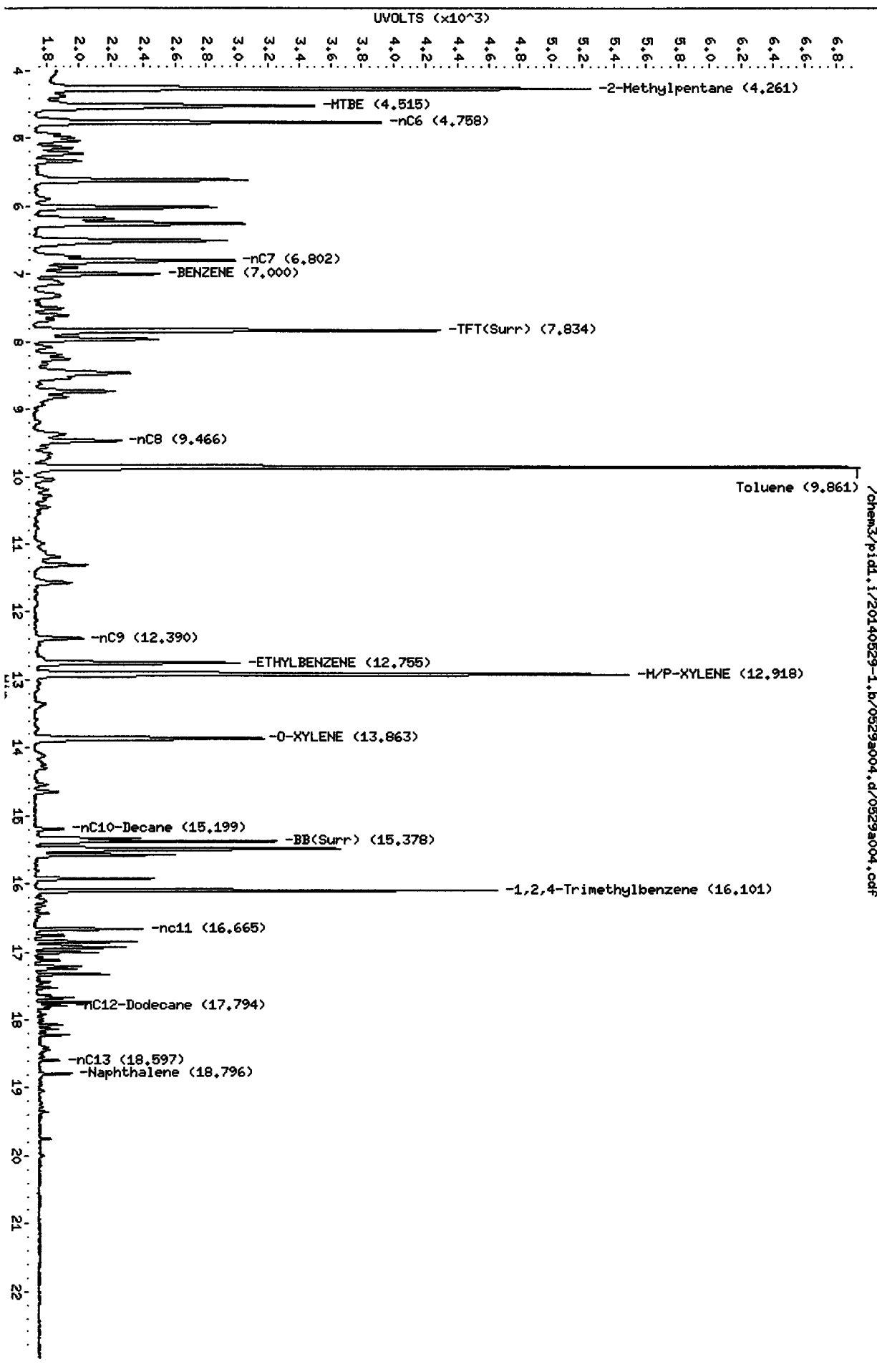
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140529-1.b/0529a004.d
Date: 29-MAY-2014 10:27
Client ID:
Sample Info: LCS0629

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: LH
Column diameter: 0.18

Page 1



YL36:00020

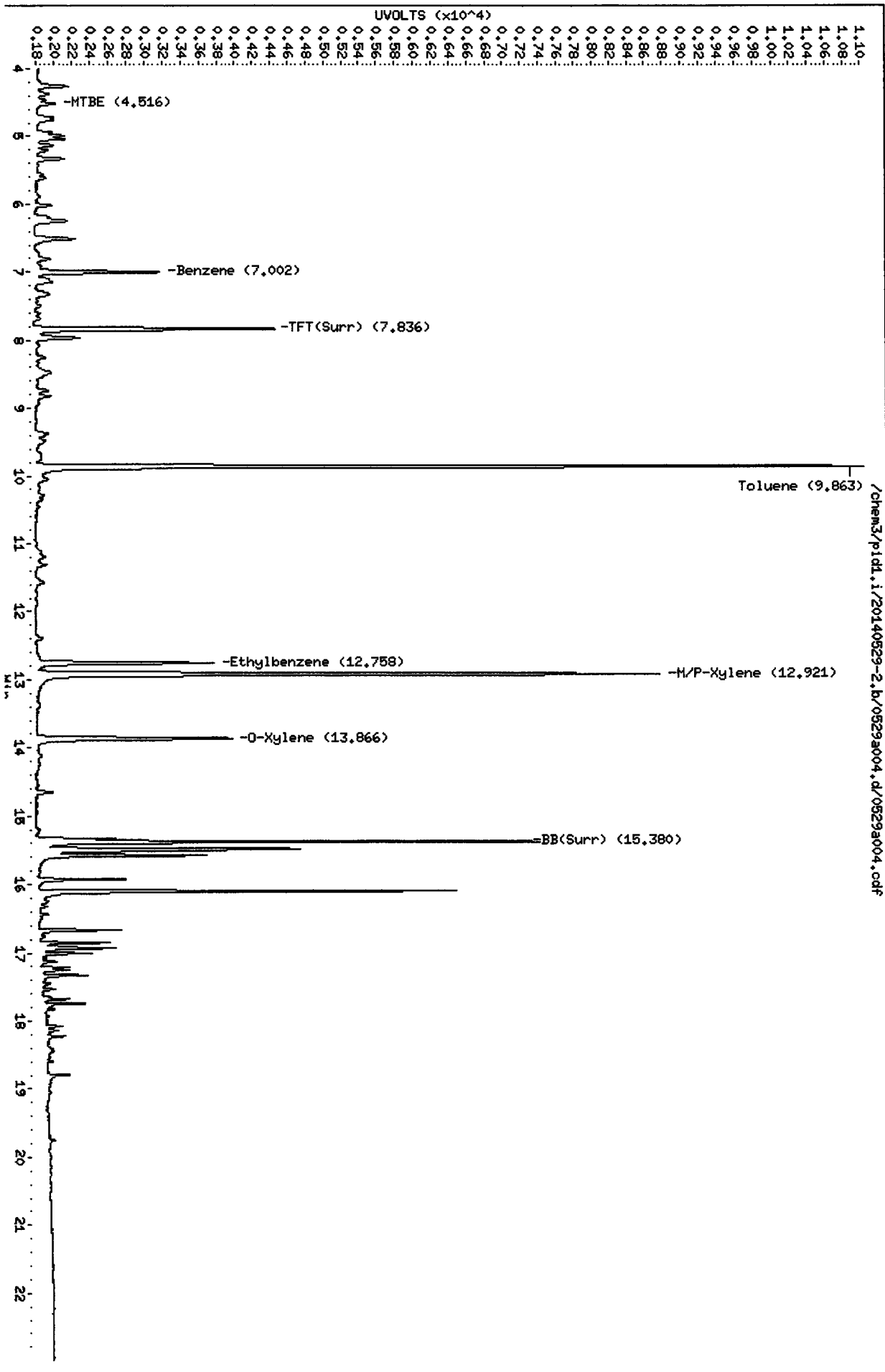
Data File: /chem3/pid1.i/20140529-2.b/0529a004.d
Date : 29-MAY-2014 10:27
Client ID:
Sample Info: LCS0529

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 PID

Operator: LH
Column diameter: 0.18



Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140529-1.b/0529a005.d ARI ID: LCSD0529
 Data file 2: /chem3/pid1.i/20140529-2.b/0529a005.d Client ID:
 Method: /chem3/pid1.i/20140529-2.b/PIDB.m Injection Date: 29-MAY-2014 10:56
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 20-MAR-2014 Dilution Factor: 1.000
 BETX Ical Date: 20-MAR-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|------|-------------|
| 7.833 | 0.000 | 2497 | 34045 | 94.0 | TFT(Surr) ✓ |
| 15.378 | 0.001 | 1499 | 13862 | 89.8 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 (9.76 to 17.90) | 324574 | 291676 | 0.899 |
| 8015C 2MP-TMB (4.16 to 16.20) | 612077 | 574435 | 0.939 |
| AK101 nC6-nC10 (4.66 to 15.10) | 460138 | 427535 | 0.929 |
| NWTPHG Tol-Nap (9.76 to 18.90) | 336167 | 298647 | 0.888 ✓ |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-------------|
| 7.835 | 0.000 | 2620 | 103.8 | TFT(Surr) ✓ |
| 15.380 | 0.001 | 5455 | 94.1 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|--------|--------|----------|--------|--------------|
| 7.001 | -0.001 | 1353 | 7.46 | Benzene |
| 9.863 | 0.000 | 9314 | 58.92 | Toluene |
| 12.758 | 0.001 | 1980 | 13.83 | Ethylbenzene |
| 12.921 | 0.003 | 6957 | 44.52 | M/P-Xylene ✓ |
| 13.866 | 0.001 | 2164 | 17.06 | O-Xylene |
| 4.515 | -0.008 | 199 | 2.83 | MTBE |

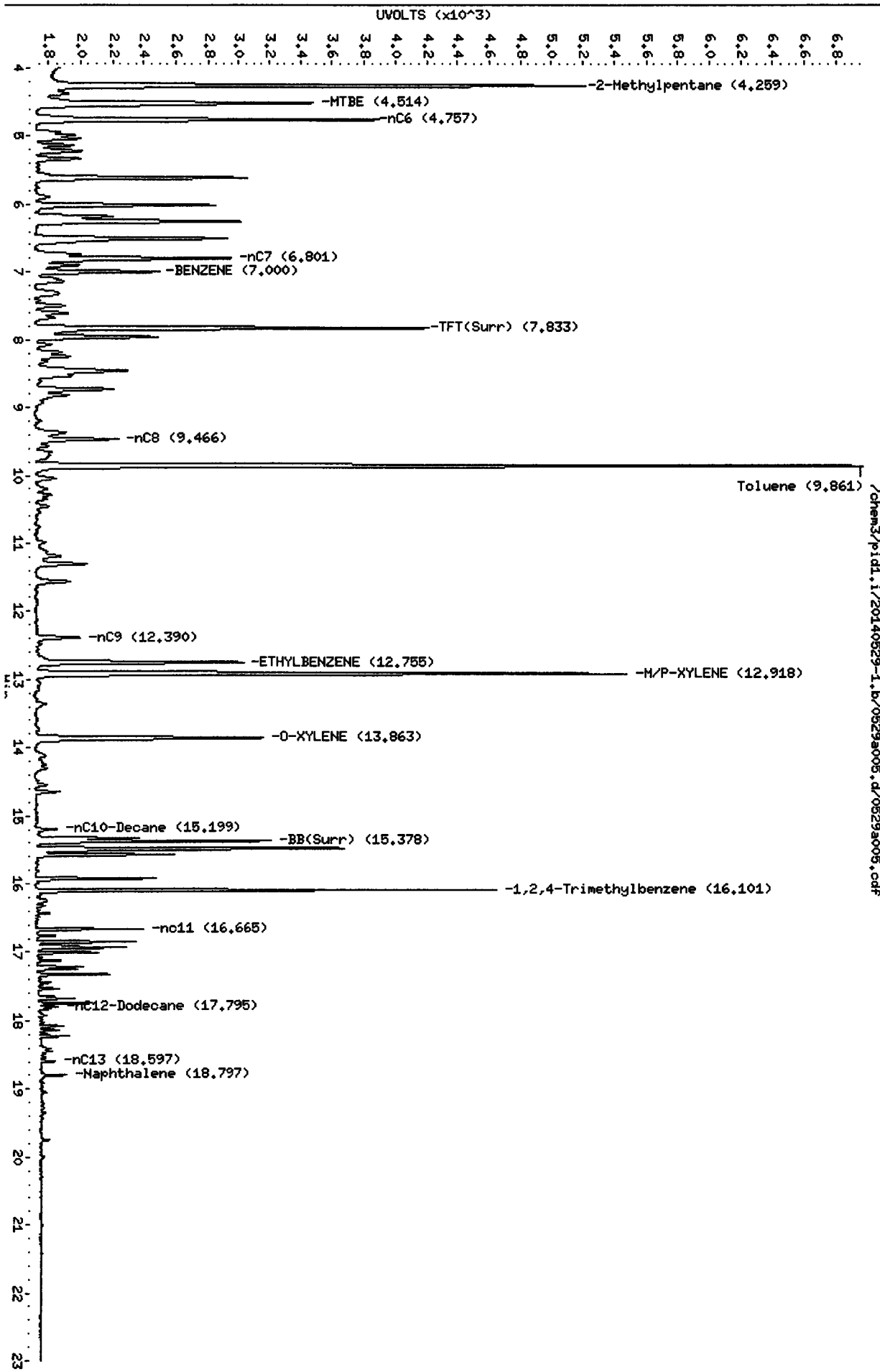
Jed
5/30/14

Indicates Peak Area was used for quantitation instead of Height
 Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140529-1.b/0529a005.d
Date: 29-MAY-2014 10:56
Client ID:
Sample Info: LCSID0529

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: LH
Column diameter: 0.18



Data File: /chem3/pid1.i/20140529-2.b/0529a005.d
Date : 29-MAY-2014 10:56

Client ID:

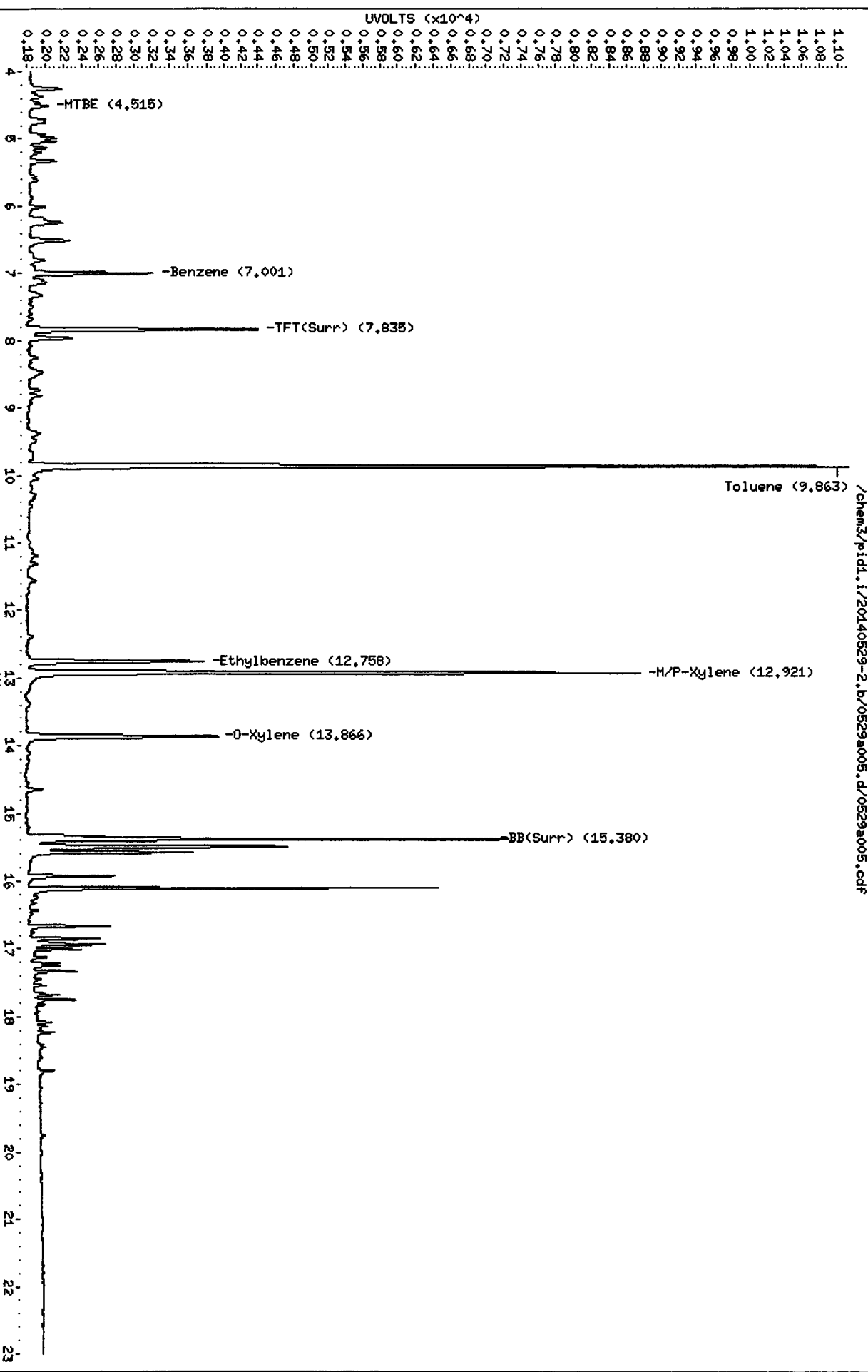
Sample Info: LCSJ0529

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: LH

Column diameter: 0.18



Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pidl.i/20140529-1.b/0529a007.d ARI ID: YL36E
 Data file 2: /chem3/pidl.i/20140529-2.b/0529a007.d Client ID: TB
 Method: /chem3/pidl.i/20140529-2.b/PIDB.m Injection Date: 29-MAY-2014 12:47
 Instrument: pidl.i Matrix: WATER
 Gas Ical Date: 20-MAR-2014 Dilution Factor: 1.000
 BETX Ical Date: 20-MAR-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|------|-------------|
| -- | ---- | ----- | ---- | ---- | ----- |
| 7.836 | 0.003 | 2652 | 33826 | 99.8 | TFT(Surr) ✓ |
| 15.380 | 0.002 | 1575 | 14365 | 94.4 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 (9.76 to 17.90) | 324574 | 494 | 0.002 |
| 8015C 2MP-TMB (4.16 to 16.20) | 612077 | 1 | 0.000 |
| AK101 nC6-nC10 (4.66 to 15.10) | 460138 | 1 | 0.000 |
| NWTPHG Tol-Nap (9.76 to 18.90) | 336167 | 494 | 0.001 ✓ |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-------------|
| -- | ---- | ----- | ---- | ----- |
| 7.838 | 0.003 | 2839 | 112.5 | TFT(Surr) ✓ |
| 15.382 | 0.003 | 5660 | 97.7 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|----------------|
| -- | ---- | ----- | ----- | ----- |
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene ✓ |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

JW
5/30/14

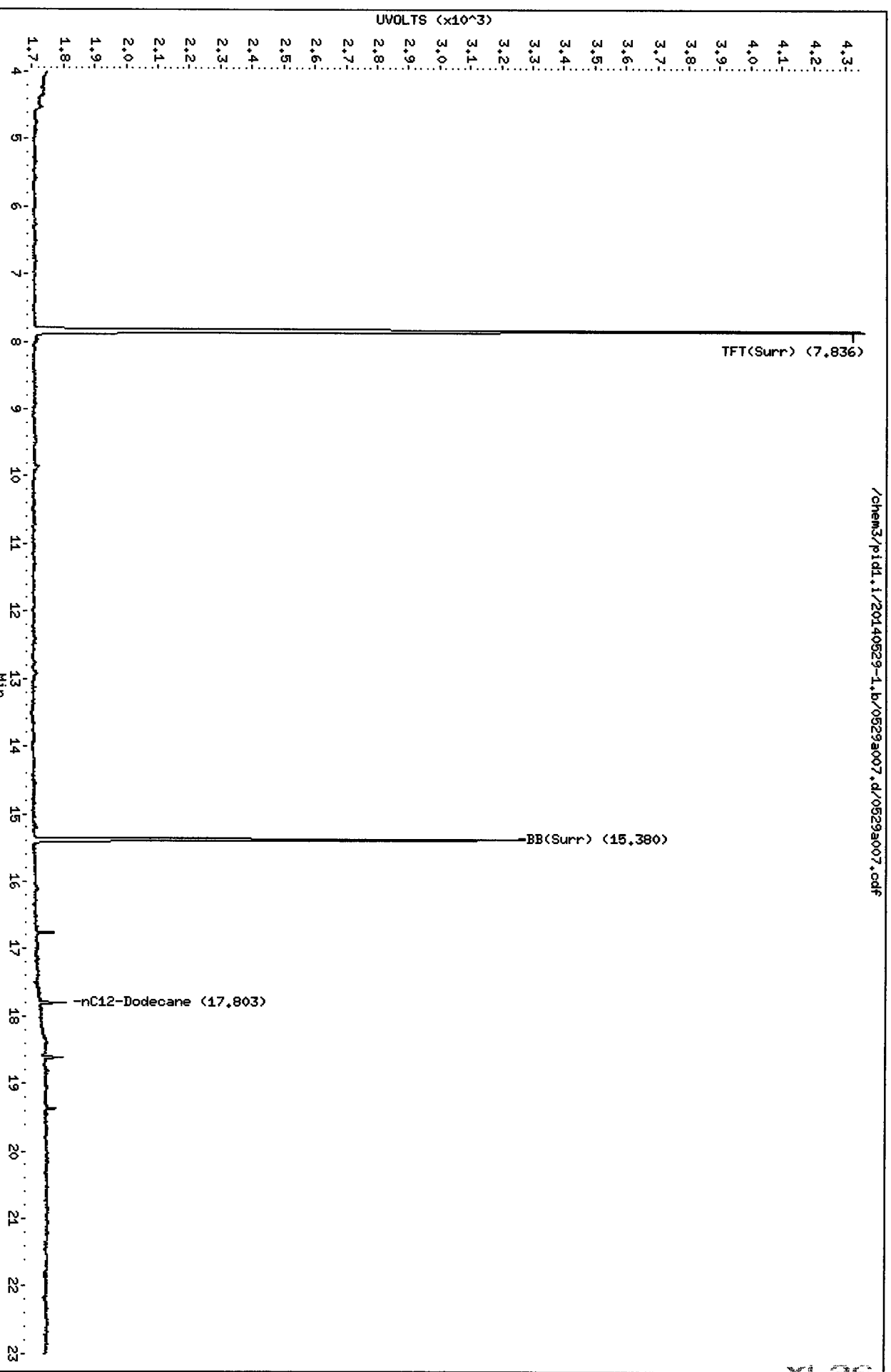
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140529-1.b/0529a007.d
Date: 29-MAY-2014 12:47
Client ID: TB
Sample Info: YL36E

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: LH
Column diameter: 0.18

/chem3/pid1.i/20140529-1.b/0529a007.d/0529a007.cdf



YL36E 00026

Data File: /chem3/pidl.i/20140529-2.b/0529a007.d

Date : 29-MAY-2014 12:47

Client ID: TB

Sample Info: YL36E

Column phase: RTX 502-2 PID

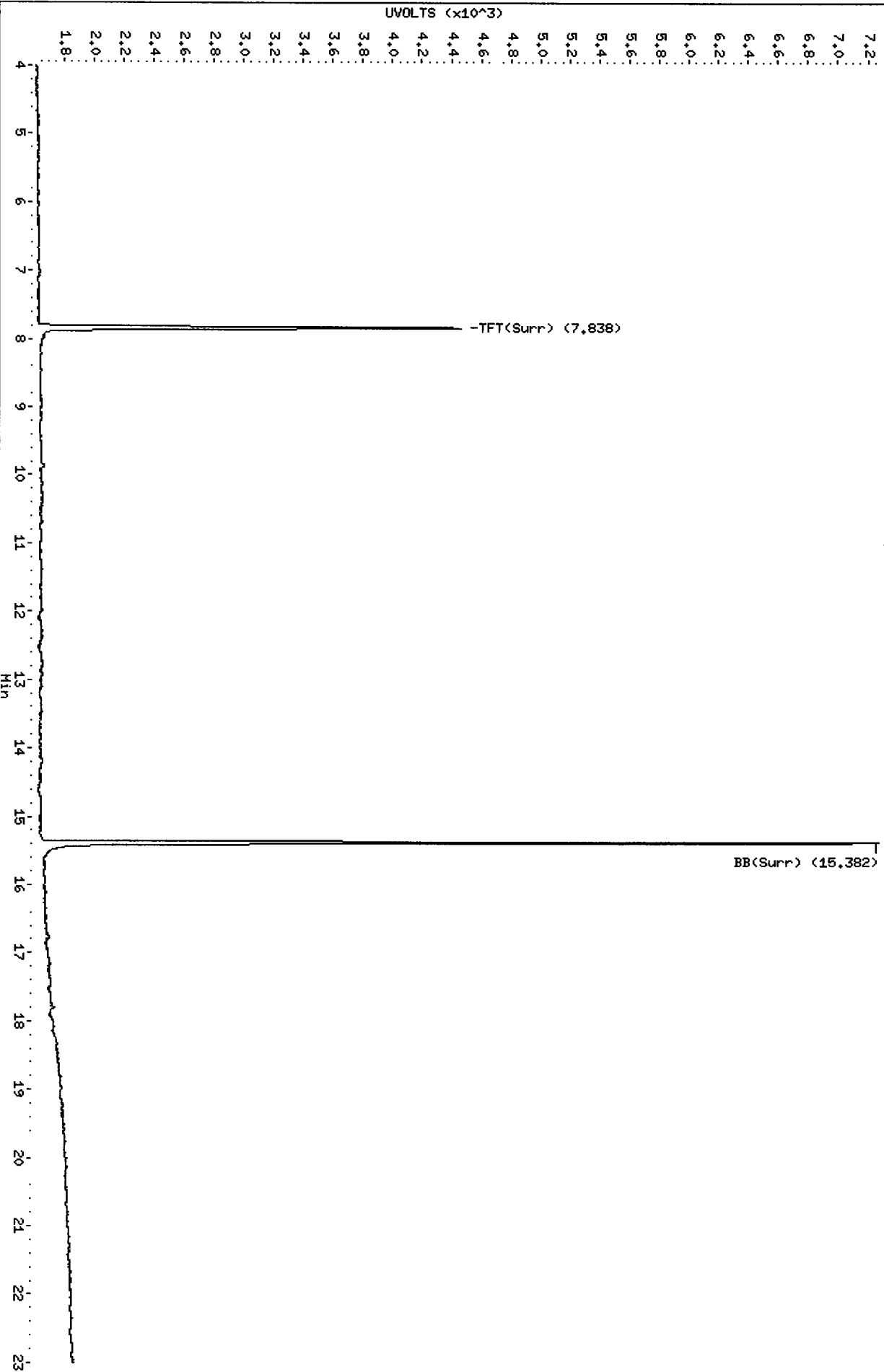
Instrument: pidl.i

Operator: LH

Column diameter: 0.18

Page 1

/chem3/pidl.i/20140529-2.b/0529a007.d/0529a007.cdf



YL36 00027

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140529-1.b/0529a023.d ARI ID: YL36A
 Data file 2: /chem3/pid1.i/20140529-2.b/0529a023.d Client ID: MW-14
 Method: /chem3/pid1.i/20140529-2.b/PIDB.m Injection Date: 29-MAY-2014 20:34
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 20-MAR-2014 Dilution Factor: 1.000
 BETX Ical Date: 20-MAR-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|------|-------------|
| 7.837 | 0.004 | 2587 | 33314 | 97.4 | TFT(Surr) ✓ |
| 15.379 | 0.002 | 1586 | 14776 | 95.1 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|-----------|
| WAGas Tol-C12 (9.76 to 17.90) | 324574 | 16103 | 0.050 M |
| 8015C 2MP-TMB (4.16 to 16.20) | 612077 | 10093 | 0.016 M |
| AK101 nC6-nC10 (4.66 to 15.10) | 460138 | 8189 | 0.018 |
| NWTPHG Tol-Nap (9.76 to 18.90) | 336167 | 36988 | 0.110 M ✓ |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-------------|
| 7.839 | 0.004 | 2707 | 107.3 | TFT(Surr) ✓ |
| 15.381 | 0.002 | 5818 | 100.4 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|----------------|
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene ✓ |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

JW
5/30/14

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140529-1.b/0529a023.d
Date: 29-MAY-2014 20:34
Client ID: MW-14
Sample Info: YL36A

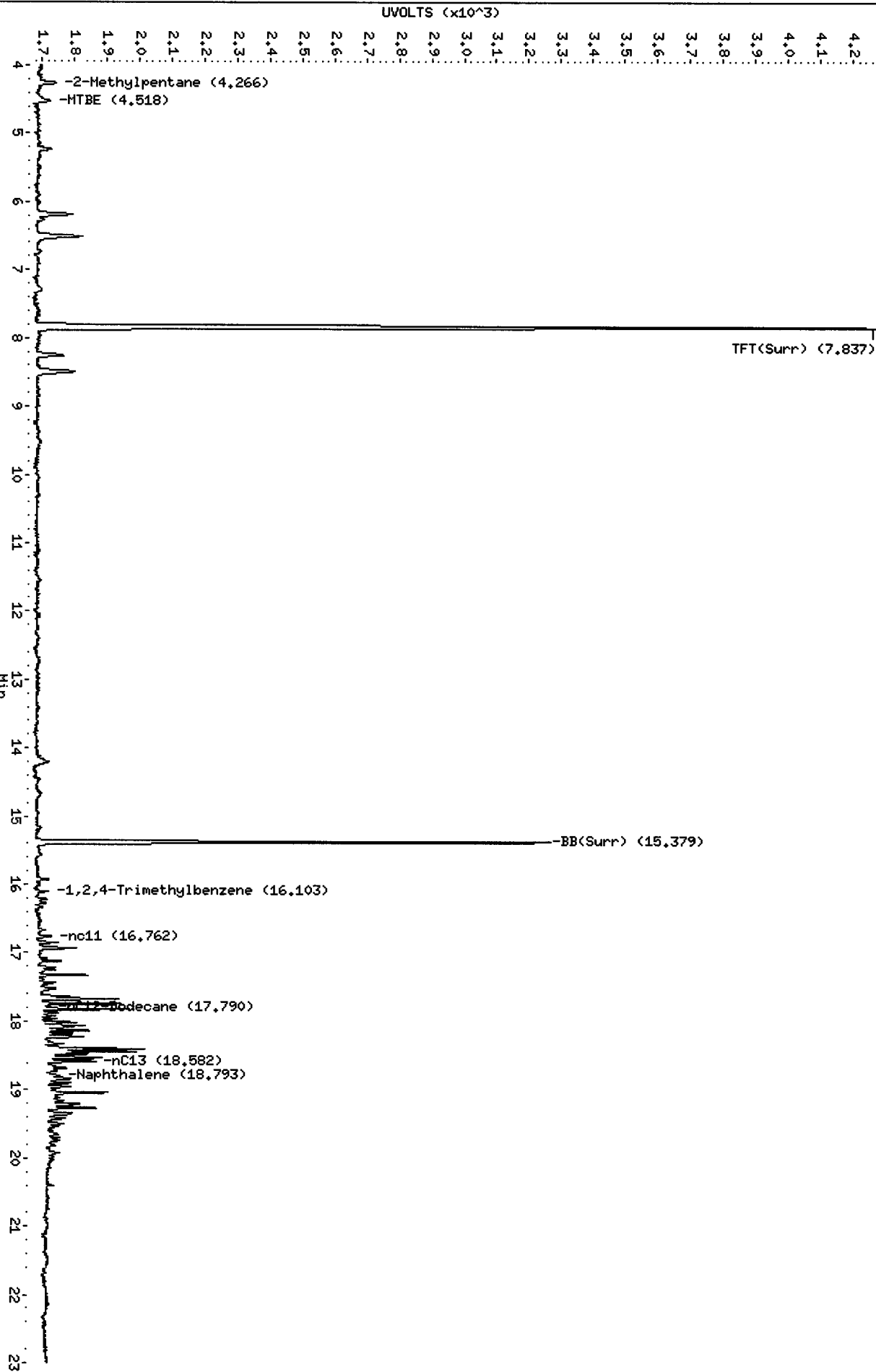
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: LH

Column diameter: 0.18

/chem3/pid1.i/20140529-1.b/0529a023.d/0529a023.cdf

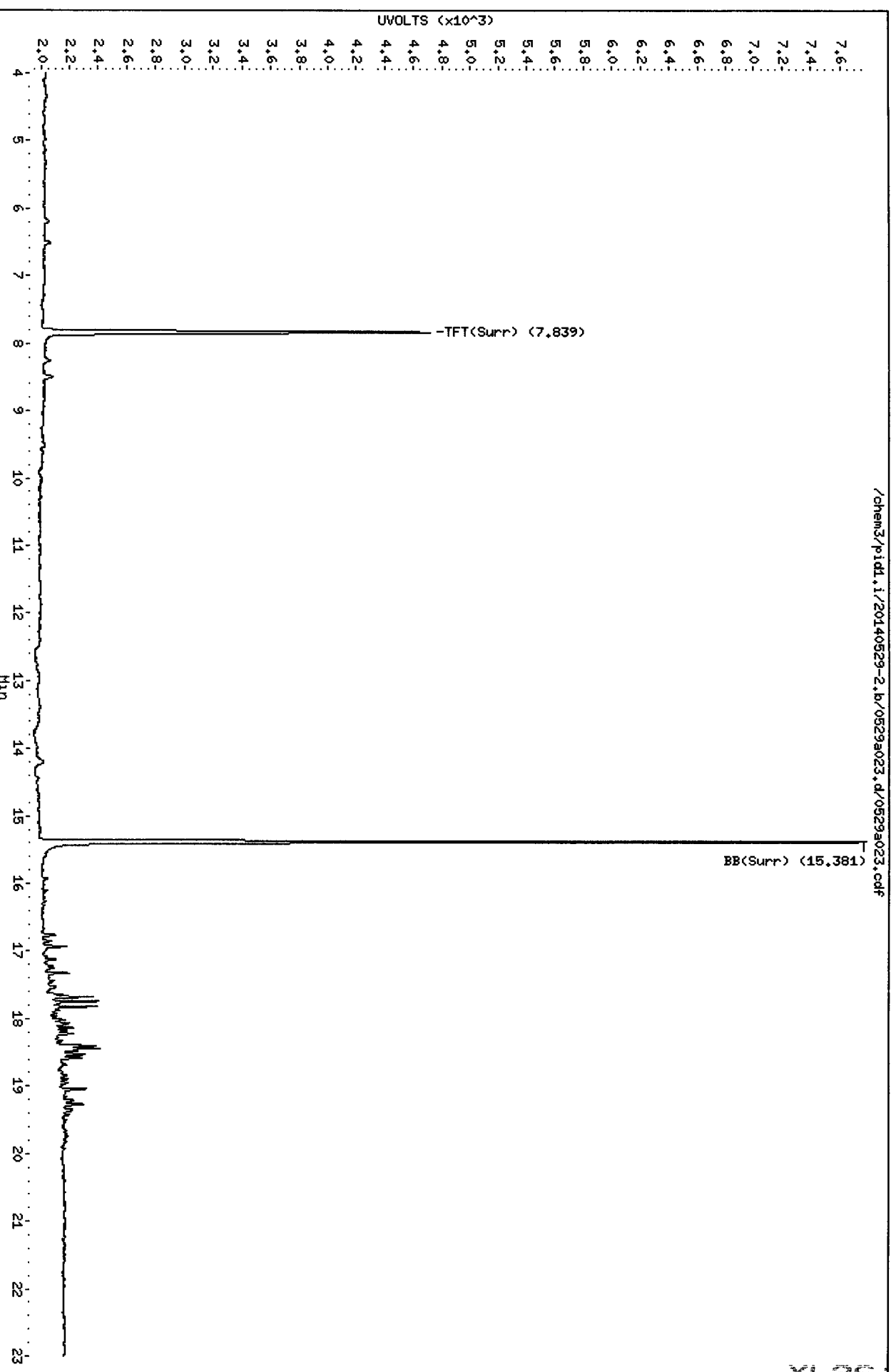


YL06 00029

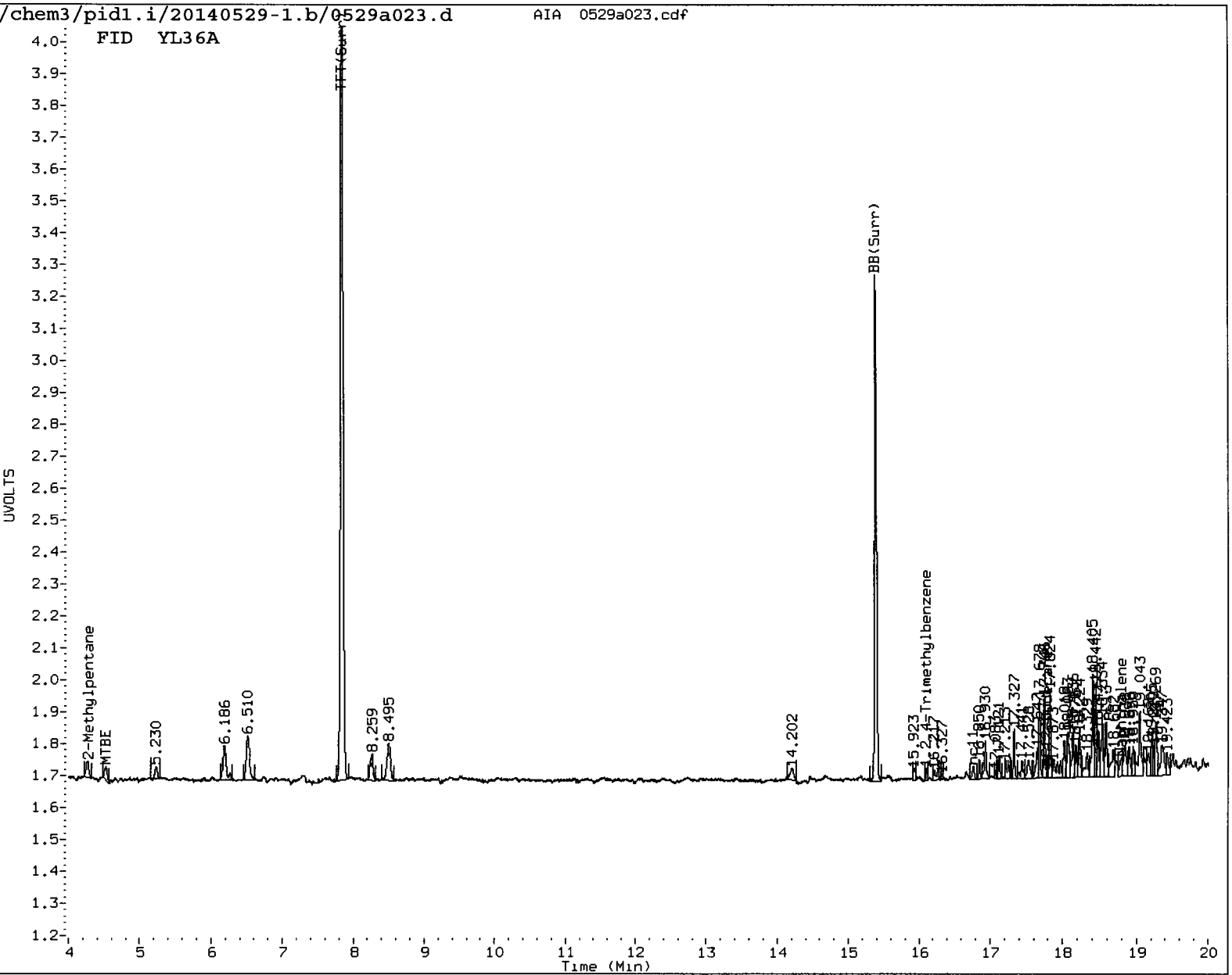
Data File: /chem3/pid1.i/20140529-2.b/0529a023.d
Date: 29-MAY-2014 20:34
Client ID: MM-14
Sample Info: YL36A

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: LH
Column diameter: 0.18



YL36 00030



MANUAL INTEGRATION

- ① 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: JW Date: 5/30/14

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140529-1.b/0529a024.d ARI ID: YL36B
 Data file 2: /chem3/pid1.i/20140529-2.b/0529a024.d Client ID: MW-4R
 Method: /chem3/pid1.i/20140529-2.b/PIDB.m Injection Date: 29-MAY-2014 21:03
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 20-MAR-2014 Dilution Factor: 1.000
 BETX Ical Date: 20-MAR-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|------------|
| -- | ----- | ----- | ----- | ----- | ----- |
| 7.837 | 0.004 | 2539 | 32586 | 95.6 | TFT(Surr) |
| 15.379 | 0.002 | 1594 | 14339 | 95.5 | BB(Surr) ✓ |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 (9.76 to 17.90) | 324574 | 0 | 0.000 |
| 8015C 2MP-TMB (4.16 to 16.20) | 612077 | 0 | 0.000 |
| AK101 nC6-nC10 (4.66 to 15.10) | 460138 | 0 | 0.000 |
| NWTPHG Tol-Nap (9.76 to 18.90) | 336167 | 0 | 0.000 ✓ |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-------------|
| -- | ----- | ----- | ----- | ----- |
| 7.839 | 0.004 | 2641 | 104.7 | TFT(Surr) ✓ |
| 15.381 | 0.002 | 5801 | 100.1 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|----------------|
| -- | ----- | ----- | ----- | ----- |
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene ✓ |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

SW
5/30/14

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140529-1.b/0529a024.d

Page 1

Date : 29-MAY-2014 21:03

Client ID: MH-4R

Sample Info: YL36B

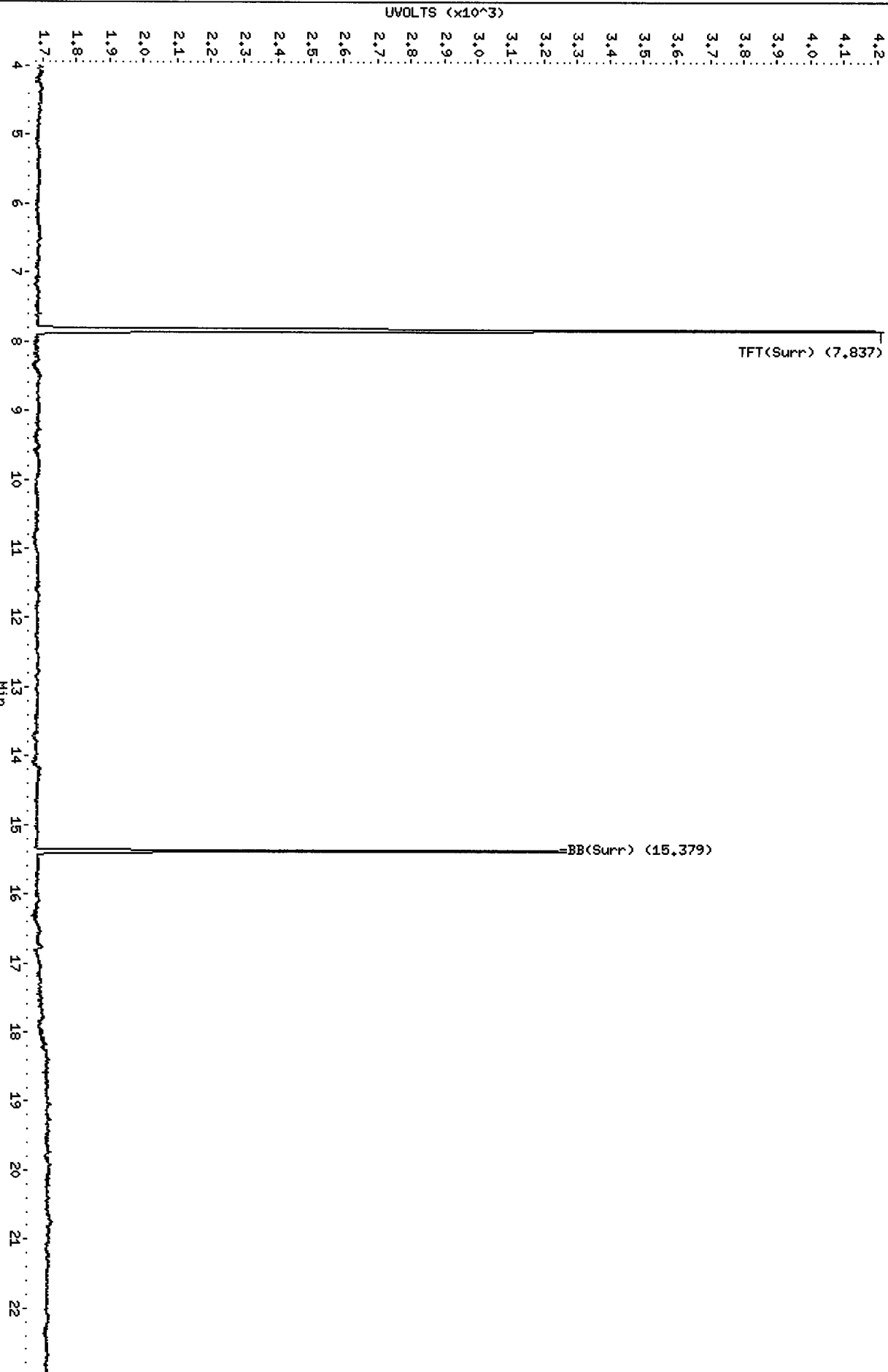
Instrument: pid1.i

Operator: LH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid1.i/20140529-1.b/0529a024.d/0529a024.cdf



YL36 00033

Data File: /chem3/pid1.i/20140529-2.b/0529a024.d

Date: 29-May-2014 21:03

Client ID: MM-4R

Sample Info: YL36B

Page 1

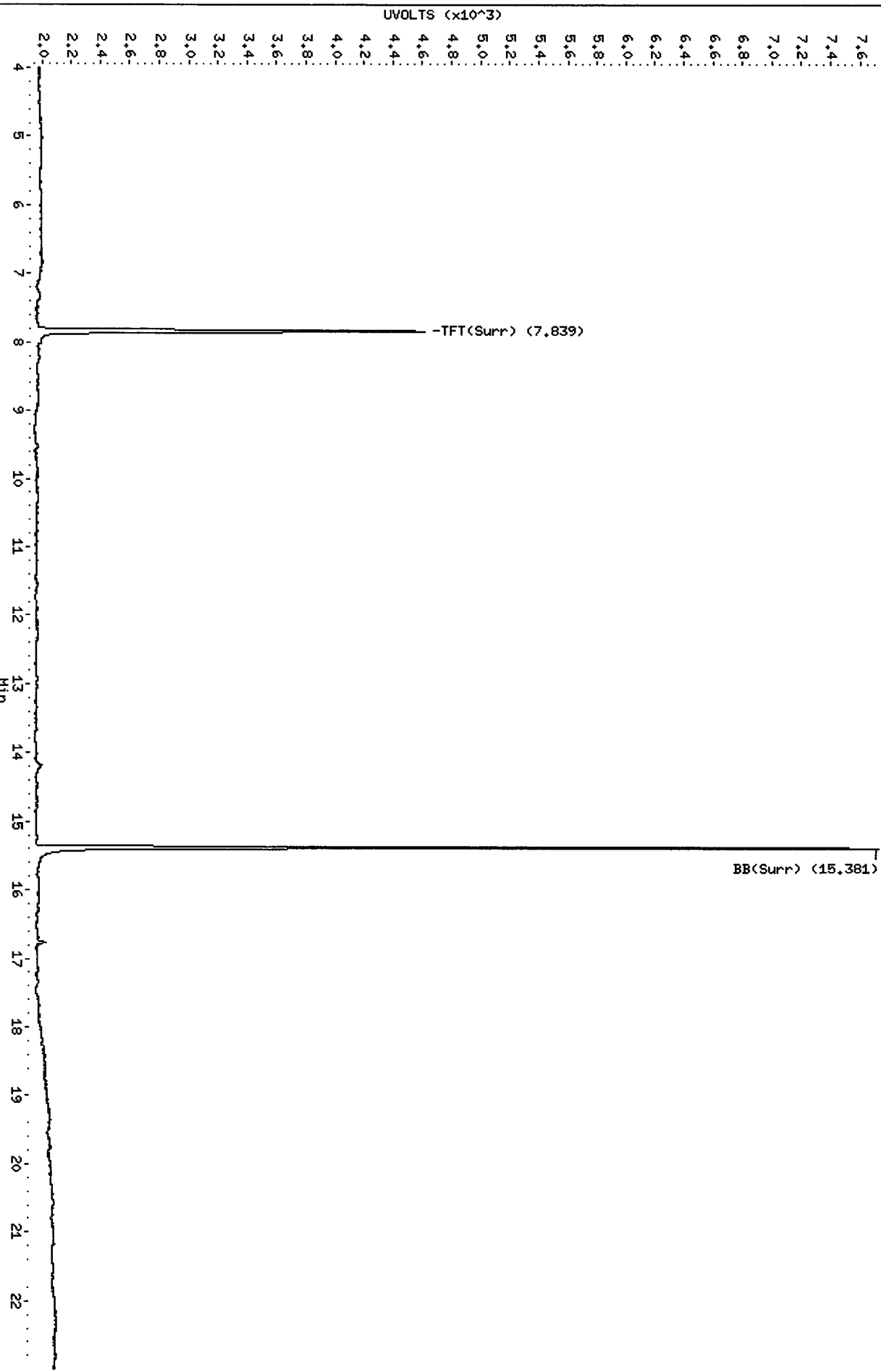
Instrument: pid1.i

Operator: LH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid1.i/20140529-2.b/0529a024.d/0529a024.cdf



YL36 000034

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140529-1.b/0529a025.d ARI ID: YL36C
 Data file 2: /chem3/pid1.i/20140529-2.b/0529a025.d Client ID: MW-13
 Method: /chem3/pid1.i/20140529-2.b/PIDB.m Injection Date: 29-MAY-2014 21:33
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 20-MAR-2014 Dilution Factor: 1.000
 BETX Ical Date: 20-MAR-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|------|-------------|
| -- | ---- | ----- | ---- | ---- | ----- |
| 7.835 | 0.002 | 2592 | 33188 | 97.6 | TFT(Surr) ✓ |
| 15.378 | 0.000 | 1594 | 14438 | 95.5 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 (9.76 to 17.90) | 324574 | 0 | 0.000 |
| 8015C 2MP-TMB (4.16 to 16.20) | 612077 | 0 | 0.000 |
| AK101 nC6-nC10 (4.66 to 15.10) | 460138 | 0 | 0.000 |
| NWTPHG Tol-Nap (9.76 to 18.90) | 336167 | 0 | 0.000 ✓ |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-----------|
| -- | ---- | ----- | ---- | ----- |
| 7.838 | 0.003 | 2701 | 107.0 | TFT(Surr) |
| 15.380 | 0.001 | 5788 | 99.9 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|--------------|
| -- | ---- | ----- | ----- | ----- |
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

*SW
5/29/14*

A Indicates Peak Area was used for quantitation instead of Height

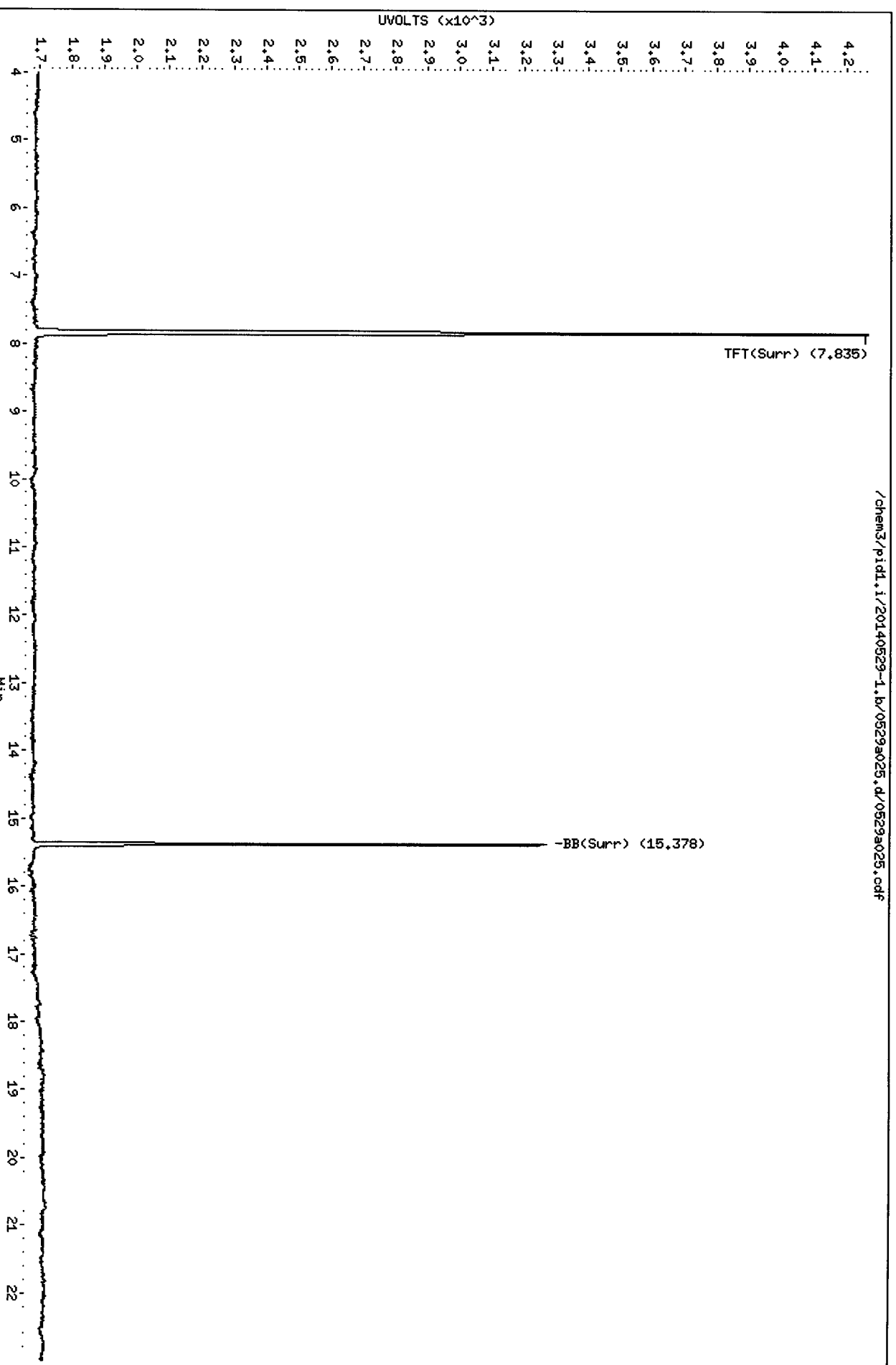
N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140529-1.b/0529a025.d
Date: 29-MAY-2014 21:33
Client ID: MH-13
Sample Info: YL36C

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: LH
Column diameter: 0.18

/chem3/pid1.i/20140529-1.b/0529a025.d/0529a025.cdf



YL36 00000

Data File: /chem3/pid1.i/20140529-2.b/0529a025.d

Page 1

Date : 29-May-2014 21:33

Client ID: MM-13

Instrument: pid1.i

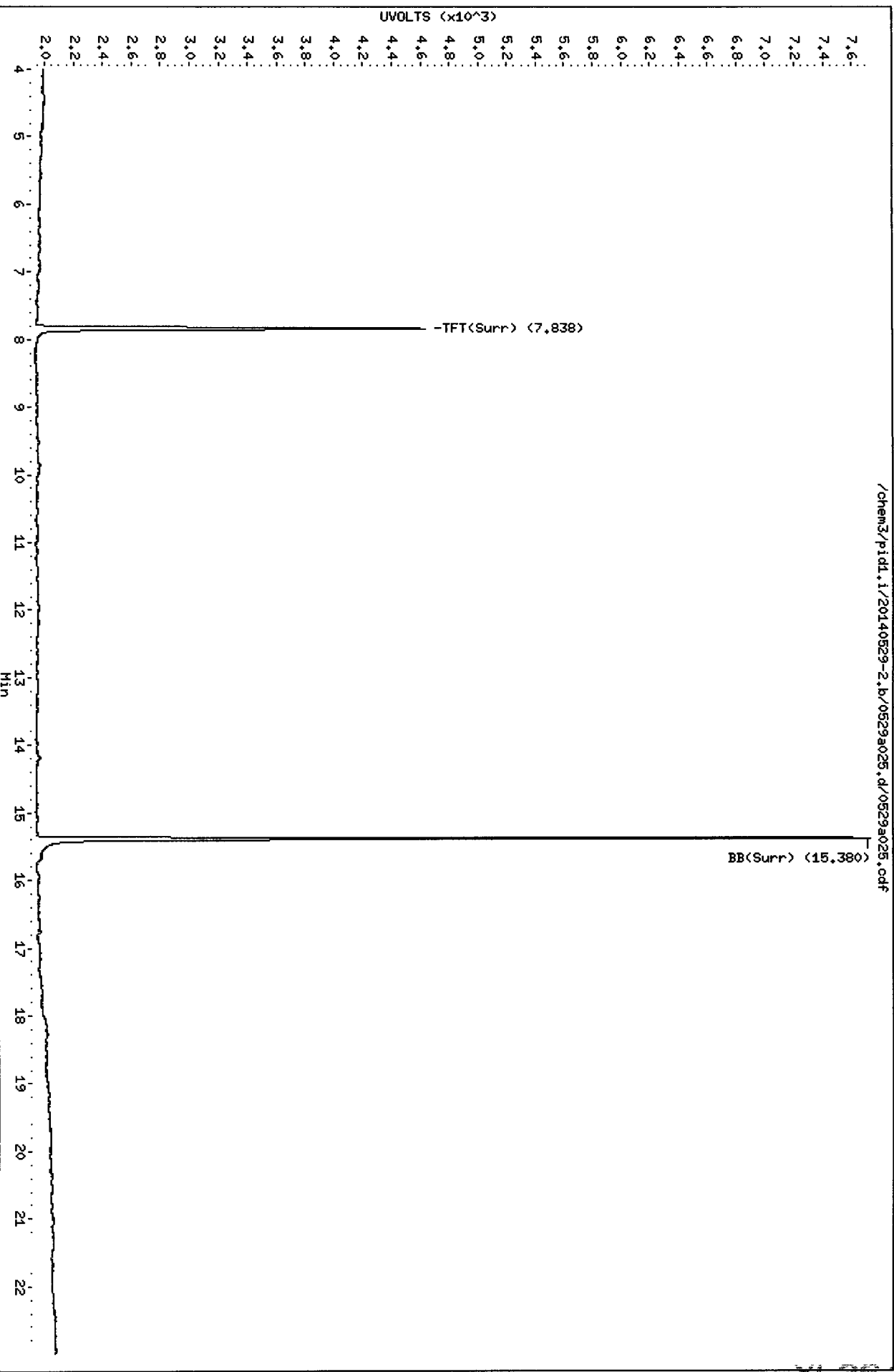
Sample Info: YL36C

Operator: LH

Column phase: RTX 502-2 PID

Column diameter: 0.18

/chem3/pid1.i/20140529-2.b/0529a025.d/0529a025.cdf



Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140529-1.b/0529a028.d ARI ID: YL36D
 Data file 2: /chem3/pid1.i/20140529-2.b/0529a028.d Client ID: MW-6
 Method: /chem3/pid1.i/20140529-2.b/PIDB.m Injection Date: 29-MAY-2014 23:00
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 20-MAR-2014 Dilution Factor: 1.000
 BETX Ical Date: 20-MAR-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|------|-------------|
| 7.836 | 0.003 | 2541 | 34725 | 95.7 | TFT (Surr) |
| 15.379 | 0.002 | 1570 | 15395 | 94.1 | BB (Surr) ✓ |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|-----------|
| WAGas Tol-C12 (9.76 to 17.90) | 324574 | 222224 | 0.685 M |
| 8015C 2MP-TMB (4.16 to 16.20) | 612077 | 149597 | 0.244 M |
| AK101 nC6-nC10 (4.66 to 15.10) | 460138 | 116438 | 0.253 M |
| NWTPHG Tol-Nap (9.76 to 18.90) | 336167 | 309038 | 0.919 M ✓ |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-------------|
| 7.838 | 0.003 | 2628 | 104.1 | TFT (Surr) |
| 15.381 | 0.001 | 5774 | 99.6 | BB (Surr) ✓ |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|--------|-------|----------|--------|--------------|
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| 12.760 | 0.003 | 983 | 6.87 | Ethylbenzene |
| 12.920 | 0.002 | 86 | 0.55 | M/P-Xylene |
| 13.870 | 0.005 | 73 | 0.58 | O-Xylene |
| ND | --- | --- | --- | MTBE |

Jw
5/30/14

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140529-1.b/0529a028.d
Date: 29-MAY-2014 23:00

Client ID: MW-6

Sample Info: YL36D

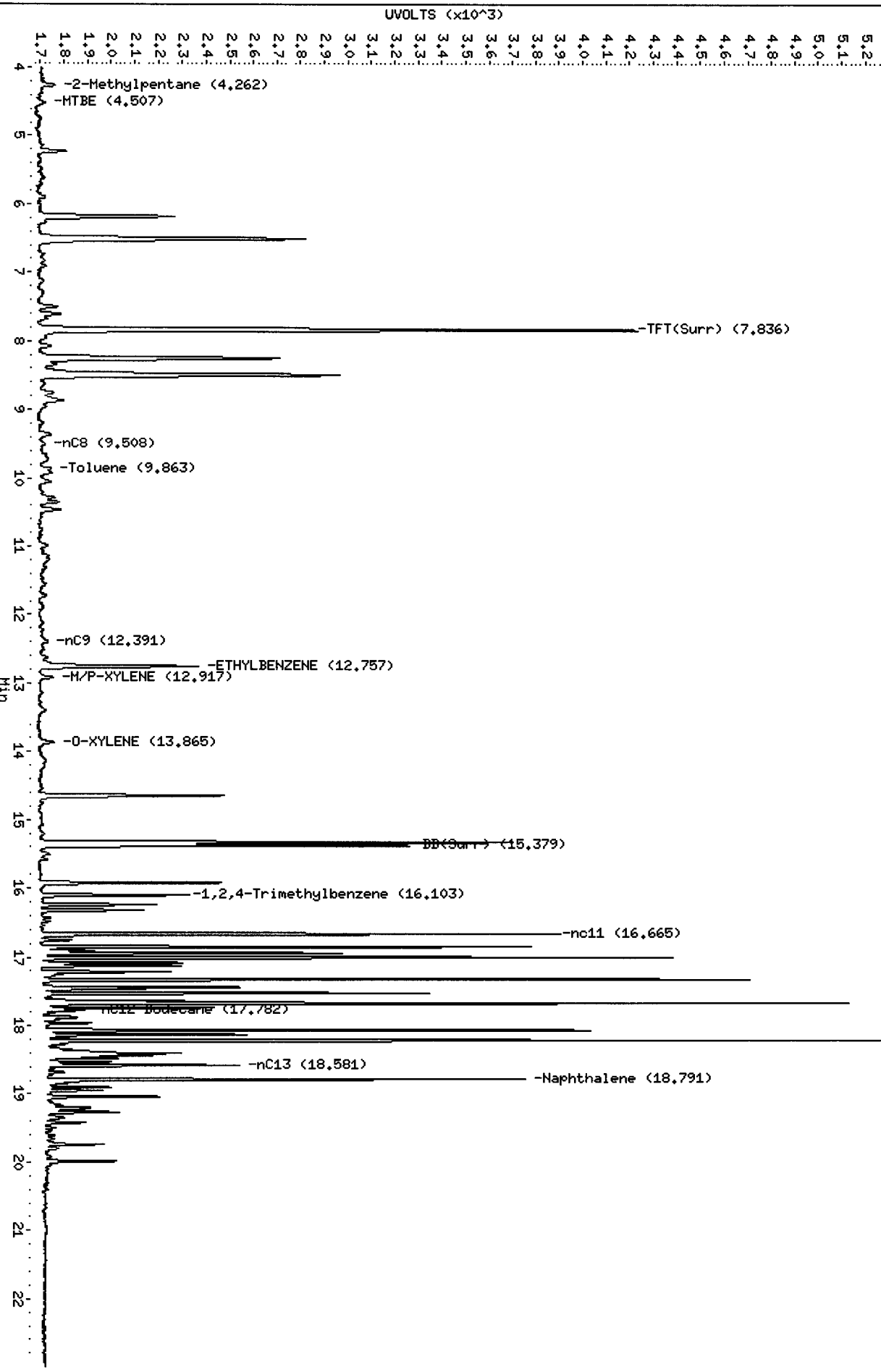
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: LH

Column diameter: 0.18

/chem3/pid1.i/20140529-1.b/0529a028.d/0529a028.cdf

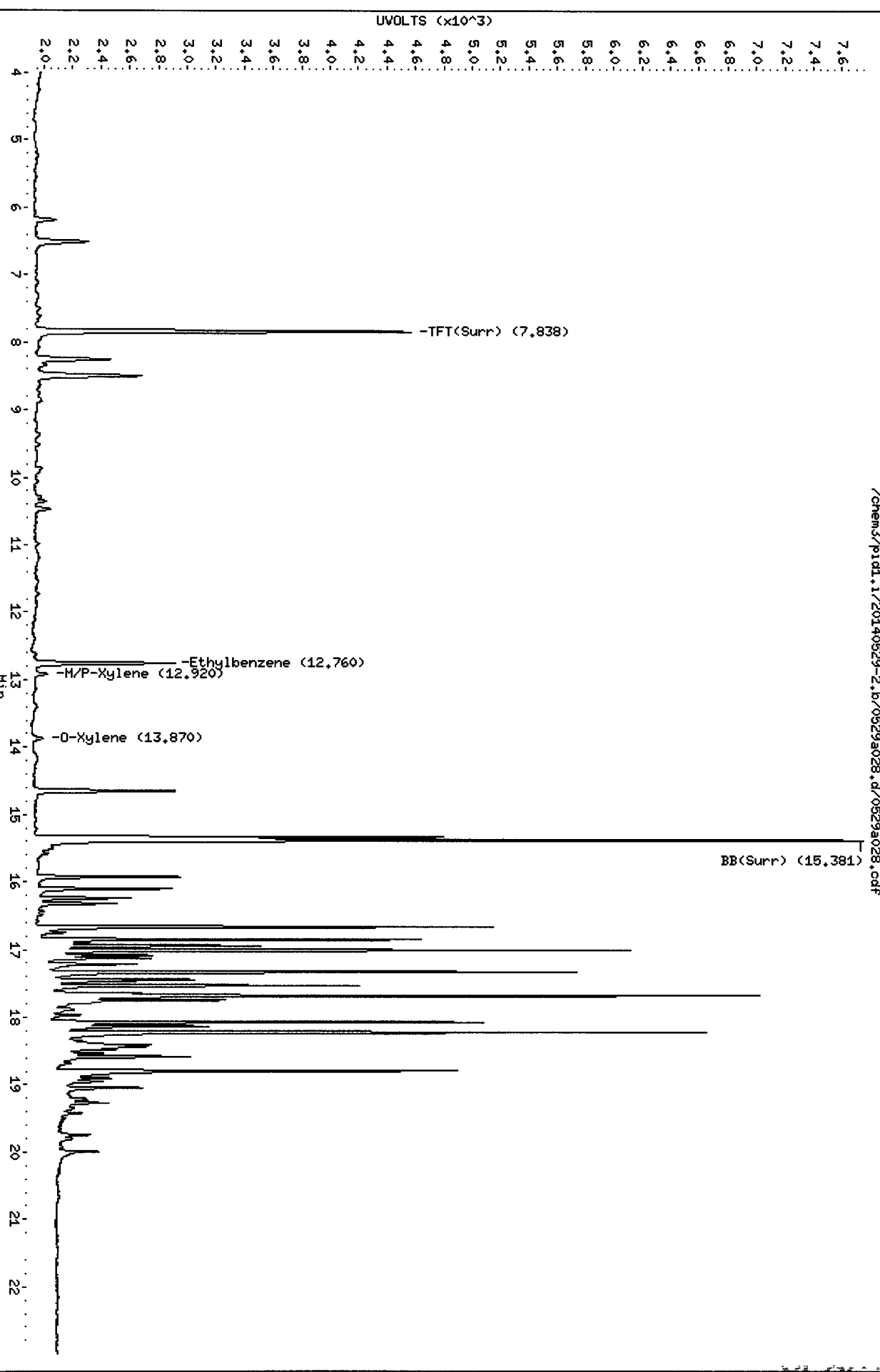


Data File: /chem3/pid1.i/20140529-2.b/0529a028.d
Date: 29-MAY-2014 23:00
Client ID: MM-6
Sample Info: YL36D

Column phase: RTX 502-2 PID

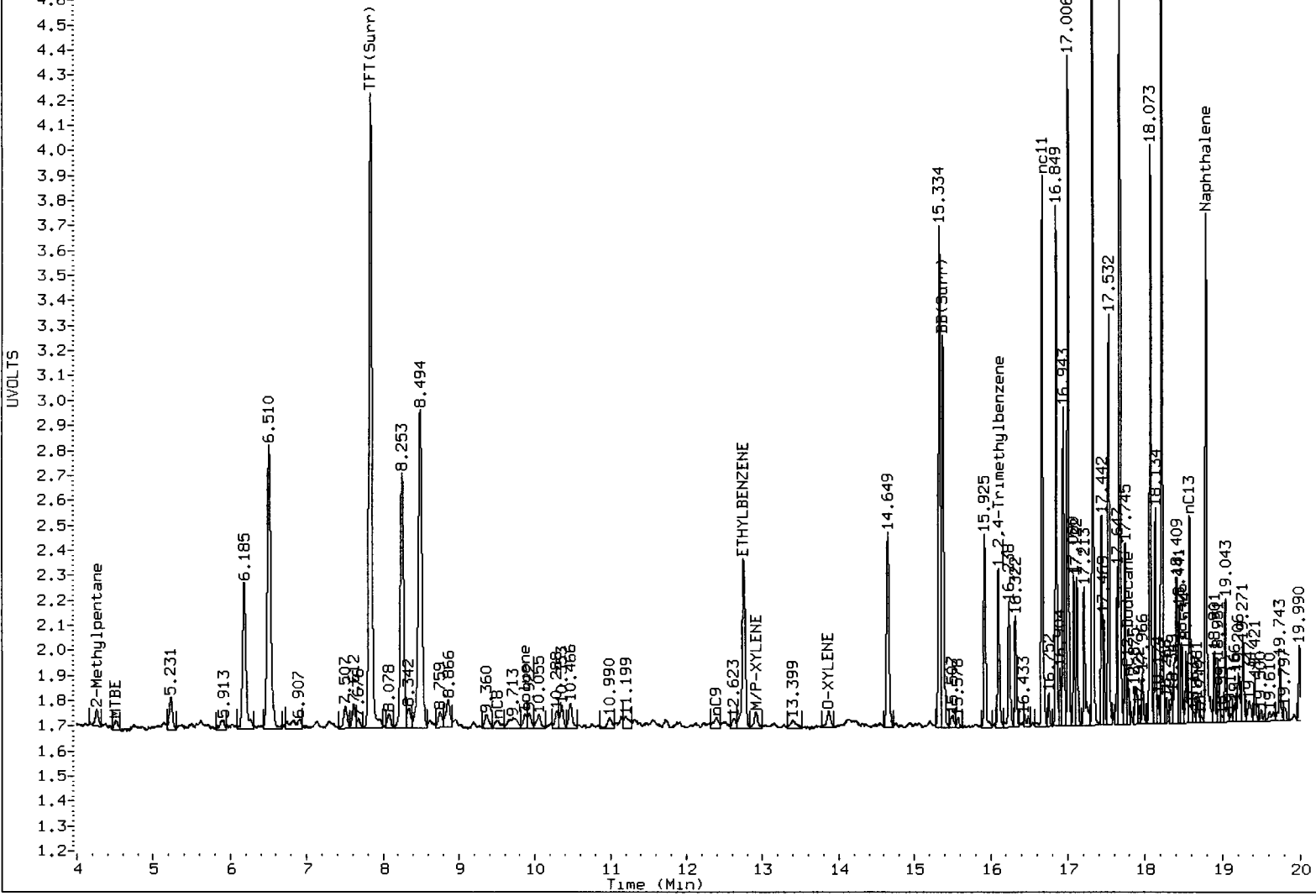
Instrument: pid1.i
Operator: LH
Column diameter: 0.18

/chem3/pid1.i/20140529-2.b/0529a028.d/0529a028.cdf



YL36:00045

FID YL36D




MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: JW Date: 5/30/14

SAMPLE RESULTS-CONVENTIONALS
YL36-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 06/02/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 05/23/14
Date Received: 05/23/14


Client ID: MW-14
ARI ID: 14-10183 YL36A

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 05/24/14 052414#1 | EPA 300.0 | mg-N/L | 0.5 | 10.4 |
| Sulfate | 05/24/14 052414#1 | EPA 300.0 | mg/L | 1.0 | 26.2 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YL36-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 06/02/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 05/23/14
Date Received: 05/23/14


Client ID: MW-4R
ARI ID: 14-10184 YL36B

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 05/23/14 052314#1 | EPA 300.0 | mg-N/L | 0.1 | 0.8 |
| Sulfate | 05/24/14 052414#1 | EPA 300.0 | mg/L | 0.5 | 15.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YL36-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 06/02/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 05/23/14
Date Received: 05/23/14


Client ID: MW-13
ARI ID: 14-10185 YL36C

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 05/23/14 052314#1 | EPA 300.0 | mg-N/L | 0.1 | 0.9 |
| Sulfate | 05/23/14 052314#1 | EPA 300.0 | mg/L | 0.1 | 4.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YL36-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 06/02/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 05/23/14
Date Received: 05/23/14

Client ID: MW-6
ARI ID: 14-10186 YL36D

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 05/23/14 052314#1 | EPA 300.0 | mg-N/L | 0.1 | 0.1 |
| Sulfate | 05/24/14 052414#1 | EPA 300.0 | mg/L | 0.2 | 6.5 |

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
YL36-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 06/02/14


A handwritten signature in black ink, appearing to be the initials 'MK' or similar, written over the 'Data Release Authorized' text.

Project: Ken's Auto
Event: 7168-10
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | Blank | ID |
|-----------|-----------|----------|--------|---------|----|
| N-Nitrate | EPA 300.0 | 05/23/14 | mg-N/L | < 0.1 U | |
| | | 05/24/14 | | < 0.1 U | |
| Sulfate | EPA 300.0 | 05/23/14 | mg/L | < 0.1 U | |
| | | 05/24/14 | | < 0.1 U | |

STANDARD REFERENCE RESULTS-CONVENTIONALS
YL36-Hart Crowser Inc.




Matrix: Water
Data Release Authorized: 
Reported: 06/02/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|--------------------------|-----------|----------------------|--------|------------|------------|----------------|
| N-Nitrate ERA #220912 | EPA 300.0 | 05/23/14 05/24/14 | mg-N/L | 2.9 2.9 | 3.0 3.0 | 96.7% 96.7% |
| Sulfate ERA 131013 | EPA 300.0 | 05/23/14 05/24/14 | mg/L | 2.9 2.9 | 3.0 3.0 | 96.7% 96.7% |

REPLICATE RESULTS-CONVENTIONALS
YL36-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 06/02/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 05/23/14
Date Received: 05/23/14

| Analyte | Method | Date | Units | Sample | Replicate(s) | RPD/RSD |
|-----------------------------------|-----------|----------|--------|--------|--------------|---------|
| ARI ID: YL36A Client ID: MW-14 | | | | | | |
| N-Nitrate | EPA 300.0 | 05/24/14 | mg-N/L | 10.4 | 10.3 | 1.0% |
| Sulfate | EPA 300.0 | 05/24/14 | mg/L | 26.2 | 26.3 | 0.4% |

MS/MSD RESULTS-CONVENTIONALS
YL36-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 06/02/14

A handwritten signature in black ink, appearing to be 'JG', is written over the 'Data Release Authorized' text.

Project: Ken's Auto
Event: 7168-10
Date Sampled: 05/23/14
Date Received: 05/23/14

| Analyte | Method | Date | Units | Sample | Spike | Spike Added | Recovery |
|--------------------------------|-----------|----------|--------|--------|-------|-------------|----------|
| ARI ID: YL36A Client ID: MW-14 | | | | | | | |
| N-Nitrate | EPA 300.0 | 05/24/14 | mg-N/L | 10.4 | 28.9 | 20.0 | 92.5% |
| Sulfate | EPA 300.0 | 05/24/14 | mg/L | 26.2 | 58.6 | 40.0 | 81.0% |



Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 4, 2014

Angie Goodwin
Hart Crowser, Inc.
1700 Westlake Avenue N. Suite 200
Seattle, WA 98109-3256

RE: Client Project: Ken's Auto, 7168-10
ARI Job No.: YX54

Dear Angie:

Please find enclosed the original Chain-of-Custody record (COC), sample receipt documentation, and the final data for samples from the project referenced above. Analytical Resources, Inc. (ARI) received four water samples and one trip blank on August 22, 2014. The samples were received in good condition with a cooler temperature of 10.1°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for NWTPH-Gx plus BTEX and Anions, as requested on the COC.

There were no anomalies associated with the analyses.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in blue ink that reads "Kelly Bottem" followed by "FOR" in a smaller, less legible script.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211
Enclosures

cc: eFile YX54



Cooler Receipt Form

ARI Client: ARI

Project Name: Ken's Auto

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: YX54

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1455

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 10.1 90877952

Cooler Accepted by: _____ Date: 8/22/14 Time: 1455

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: _____ NA 8/19/14

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 8/22/14 Time: 1608

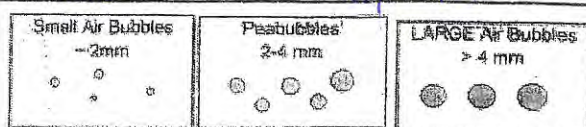
**** Notify Project Manager of discrepancies or concerns ****

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
| | | | |
| | | | |
| | | | |

Additional Notes, Discrepancies, & Resolutions:

TB=1pb

By: AV Date: 8/22/14



- Small → "sm" (< 2 mm)
- Peabubbles → "pb" (2 to < 4 mm)
- Large → "lg" (4 to < 6 mm)
- Headspace → "hs" (> 6 mm)

Sample Custody Record 161

Samples Shipped to: ARI



HARTCROWSER

Hart Crowser, Inc.
1700 Westlake Avenue North, Suite 200
Seattle, Washington 98109-6212
Office: 206.324.9530 • Fax 206.328.5581

| JOB <u>7168-10</u> LAB NUMBER | | REQUESTED ANALYSIS | | | | NO. OF CONTAINERS | OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS | | | | | | | | | | | | | | |
|--------------------------------|---|--------------------|-------------|-------------|--|-------------------|--|------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| PROJECT NAME <u>Ken's Auto</u> | HART CROWSER CONTACT <u>Angie Goodwin</u> | LAB NO. | SAMPLE ID | DESCRIPTION | DATE | | | TIME | MATRIX | | | | | | | | | | | | |
| | | MW-14 | | VOLs; Poly | 8/21/14 | 1247 | H ₂ O | X | | | | | | | | | | | | | |
| | | MW-4R | | VOLs; Poly | | 1420 | | X | | | | | | | | | | | | | |
| | | MW-13 | | VOLs; Poly | | 1116 | | X | | | | | | | | | | | | | |
| | | MW-16 | | VOLs; Poly | | 1202 | | X | | | | | | | | | | | | | |
| | | TB | | VOLs | | - | | X | | | | | | | | | | | | | |
| SAMPLED BY: <u>Marc Miller</u> | | | | | | | | | | | | | | | | | | | | | |
| RELIQUISHED BY | | DATE | RECEIVED BY | DATE | SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: | | TOTAL NUMBER OF CONTAINERS | | SAMPLE RECEIPT INFORMATION | | | TURNAROUND TIME: | | | | | | | | | |
| <u>Angie Goodwin</u> | <u>Rich Holston</u> | 8/22/14 | 8/22/14 | 8/22/14 | For Gas: Benzene, please report to the Curve. | | 14 | | CUSTODY SEALS: YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> | | | <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 72 HOURS | | | | | | | | | |
| | | TIME | SIGNATURE | TIME | | | | | GOOD CONDITION YES <input type="checkbox"/> NO <input type="checkbox"/> | | | <input type="checkbox"/> HAND <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT | | | | | | | | | |
| | | 13:30 | PRINT NAME | 1455 | | | | | TEMPERATURE | | | | | | | | | | | | |
| | | | COMPANY | | | | | | SHIPMENT METHOD: | | | | | | | | | | | | |
| | | | | | | | | | COOLER NO.: | | | | | | | | | | | | |
| | | | | | | | | | STORAGE LOCATION: | | | | | | | | | | | | |
| | | | | | | | | | See Lab Work Order No. _____ | | | | | | | | | | | | |
| | | | | | | | | | for Other Contract Requirements | | | | | | | | | | | | |



Cooler Temperature Compliance Form

| Cooler#: | | Temperature(°C): | |
|------------------------------------|--------------|------------------|--|
| Sample ID | Bottle Count | Bottle Type | |
| <i>Samples received above 6°C.</i> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Completed by: N Date: 8/22/14 Time: 1610

Sample ID Cross Reference Report



ARI Job No: YX54
Client: Hart Crowser Inc.
Project Event: 7168-10
Project Name: Ken's Auto

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|-----------|------------|-------------|--------|------------------|----------------|
| 1. MW-14 | YX54A | 14-17328 | Water | 08/21/14 12:47 | 08/22/14 14:55 |
| 2. MW-4R | YX54B | 14-17329 | Water | 08/21/14 14:20 | 08/22/14 14:55 |
| 3. MW-13 | YX54C | 14-17330 | Water | 08/21/14 11:16 | 08/22/14 14:55 |
| 4. MW-6 | YX54D | 14-17331 | Water | 08/21/14 12:02 | 08/22/14 14:55 |
| 5. TB | YX54E | 14-17332 | Water | 08/21/14 | 08/22/14 14:55 |



Data Reporting Qualifiers

Effective 12/31/13

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.



**Analytical Resources,
Incorporated**
Analytical Chemists and
Consultants

- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-14

SAMPLE

Lab Sample ID: YX54A

LIMS ID: 14-17328

Matrix: Water

Data Release Authorized:

Reported: 09/03/14

QC Report No: YX54-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 08/21/14

Date Received: 08/22/14

Date Analyzed: 08/30/14 14:20

Instrument/Analyst: PID1/LH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-----------------|---------------------|-------------|------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | 1.1 |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

Gasoline Range Hydrocarbons 0.10 1.1 GAS ID
GRO

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 102% |
| Bromobenzene | 101% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 107% |
| Bromobenzene | 104% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-4R
 SAMPLE

Lab Sample ID: YX54B
 LIMS ID: 14-17329
 Matrix: Water
 Data Release Authorized: *B*
 Reported: 09/03/14

QC Report No: YX54-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-10
 Date Sampled: 08/21/14
 Date Received: 08/22/14

Date Analyzed: 08/30/14 14:49
 Instrument/Analyst: PID1/LH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 98.5% |
| Bromobenzene | 95.8% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 102% |
| Bromobenzene | 99.1% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-13

SAMPLE

Lab Sample ID: YX54C

LIMS ID: 14-17330

Matrix: Water

Data Release Authorized:

Reported: 09/03/14

QC Report No: YX54-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 08/21/14

Date Received: 08/22/14

Date Analyzed: 08/30/14 15:19

Instrument/Analyst: PID1/LH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 100% |
| Bromobenzene | 98.9% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 104% |
| Bromobenzene | 102% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-6

SAMPLE

Lab Sample ID: YX54D

LIMS ID: 14-17331

Matrix: Water

Data Release Authorized: *MB*

Reported: 09/03/14

QC Report No: YX54-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 08/21/14

Date Received: 08/22/14

Date Analyzed: 08/30/14 15:48

Instrument/Analyst: PID1/LH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|------------------------------------|-------------|-------------|-----------------------|
| Gasoline Range Hydrocarbons | 0.10 | 0.37 | GAS ID GRO |
|------------------------------------|-------------|-------------|-----------------------|

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 100% |
| Bromobenzene | 96.5% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 105% |
| Bromobenzene | 100% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TB
SAMPLE

Lab Sample ID: YX54E

LIMS ID: 14-17332

Matrix: Water

Data Release Authorized:

Reported: 09/03/14

QC Report No: YX54-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 08/21/14

Date Received: 08/22/14

Date Analyzed: 08/30/14 13:22

Instrument/Analyst: PID1/LH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 101% |
| Bromobenzene | 97.6% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 103% |
| Bromobenzene | 101% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-083014

METHOD BLANK

Lab Sample ID: MB-083014

LIMS ID: 14-17328

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 09/03/14

QC Report No: YX54-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed: 08/30/14 12:31

Instrument/Analyst: PID1/LH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | RL | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 94.4% |
| Bromobenzene | 93.6% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 98.3% |
| Bromobenzene | 96.6% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-083014

LAB CONTROL SAMPLE

Lab Sample ID: LCS-083014

LIMS ID: 14-17328

Matrix: Water

Data Release Authorized: *AS*

Reported: 09/03/14

QC Report No: YX54-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 08/30/14 11:32

LCSD: 08/30/14 12:02

Instrument/Analyst LCS: PID1/LH

LCSD: PID1/LH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

| Analyte | LCS | Spike | LCS | LCSD | Spike | LCSD | RPD |
|--------------|------|-----------|----------|------|------------|----------|------|
| | | Added-LCS | Recovery | | Added-LCSD | Recovery | |
| Benzene | 6.62 | 7.00 | 94.6% | 6.71 | 7.00 | 95.9% | 1.4% |
| Toluene | 49.7 | 49.4 | 101% | 50.4 | 49.4 | 102% | 1.4% |
| Ethylbenzene | 12.0 | 12.3 | 97.6% | 12.3 | 12.3 | 100% | 2.5% |
| m,p-Xylene | 39.3 | 40.0 | 98.2% | 40.3 | 40.0 | 101% | 2.5% |
| o-Xylene | 15.4 | 15.3 | 101% | 15.8 | 15.3 | 103% | 2.6% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 95.3% | 97.4% |
| Bromobenzene | 94.3% | 96.4% |

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-083014

LAB CONTROL SAMPLE

Lab Sample ID: LCS-083014

LIMS ID: 14-17328

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 09/03/14

QC Report No: YX54-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 08/30/14 11:32

Purge Volume: 5.0 mL

LCSD: 08/30/14 12:02

Instrument/Analyst LCS: PID1/LH

Dilution Factor LCS: 1.0

LCSD: PID1/LH

LCSD: 1.0

| Analyte | LCS | Spike | LCS | LCSD | Spike | LCSD | RPD |
|-----------------------------|------|-----------|----------|------|------------|----------|------|
| | | Added-LCS | Recovery | | Added-LCSD | Recovery | |
| Gasoline Range Hydrocarbons | 1.02 | 1.00 | 102% | 1.02 | 1.00 | 102% | 0.0% |

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 98.7% | 100% |
| Bromobenzene | 96.7% | 99.5% |

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: YX54
Matrix: Water

QC Report No: YX54-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-10

| <u>Client ID</u> | <u>TFT</u> | <u>BBZ</u> | <u>TOT</u> | <u>OUT</u> |
|------------------|------------|------------|------------|------------|
| MB-083014 | 94.4% | 93.6% | 0 | |
| LCS-083014 | 95.3% | 94.3% | 0 | |
| LCSD-083014 | 97.4% | 96.4% | 0 | |
| MW-14 | 102% | 101% | 0 | |
| MW-4R | 98.5% | 95.8% | 0 | |
| MW-13 | 100% | 98.9% | 0 | |
| MW-6 | 100% | 96.5% | 0 | |
| TB | 101% | 97.6% | 0 | |

| | | <u>LCS/MB LIMITS</u> | <u>QC LIMITS</u> |
|--------------------------|------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (5 mL PV) | (80-120) | (80-120) |
| (TFT) = Trifluorotoluene | (15 mL PV) | (79-120) | (80-120) |
| (BBZ) = Bromobenzene | (5 mL PV) | (80-120) | (77-120) |
| (BBZ) = Bromobenzene | (15 mL PV) | (79-120) | (80-120) |

Log Number Range: 14-17328 to 14-17332

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: YX54
Matrix: Water

QC Report No: YX54-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-10

| <u>Client ID</u> | <u>TFT</u> | <u>BBZ</u> | <u>TOT OUT</u> |
|------------------|------------|------------|----------------|
| MB-083014 | 98.3% | 96.6% | 0 |
| LCS-083014 | 98.7% | 96.7% | 0 |
| LCSD-083014 | 100% | 99.5% | 0 |
| MW-14 | 107% | 104% | 0 |
| MW-4R | 102% | 99.1% | 0 |
| MW-13 | 104% | 102% | 0 |
| MW-6 | 105% | 100% | 0 |
| TB | 103% | 101% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|--------------------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (80-120) | (80-120) |
| (BBZ) = Bromobenzene | (80-120) | (80-120) |

Log Number Range: 14-17328 to 14-17332

PK
9/2/14

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140830-1.b/0830a004.d ARI ID: LCS0830
Data file 2: /chem3/pid1.i/20140830-2.b/0830a004.d Client ID:
Method: /chem3/pid1.i/20140830-2.b/PIDB.m Injection Date: 30-AUG-2014 11:32
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 01-AUG-2014 Dilution Factor: 1.000
BETX Ical Date: 01-AUG-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|-----------|
| -- | ----- | ----- | ----- | ----- | ----- |
| 7.840 | 0.002 | 2336 | 31842 | 98.7 | TFT(Surr) |
| 15.381 | 0.000 | 1401 | 13591 | 96.7 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|---------|
| ----- | ----- | ----- | ----- |
| WAGas Tol-C12 (9.77 to 17.90) | 255374 | 258670 | 1.013 M |
| 8015C 2MP-TMB (4.16 to 16.20) | 464685 | 484750 | 1.043 M |
| AK101 nC6-nC10 (4.66 to 15.10) | 351052 | 367540 | 1.047 M |
| NWTPHG Tol-Nap (9.77 to 18.89) | 264430 | 268436 | 1.015 M |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-----------|
| -- | ----- | ----- | ----- | ----- |
| 7.841 | 0.002 | 3638 | 95.3 | TFT(Surr) |
| 15.382 | 0.000 | 7583 | 94.3 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|--------|--------|----------|--------|--------------|
| -- | ----- | ----- | ----- | ----- |
| 7.002 | 0.001 | 1753 | 6.62 | Benzene |
| 9.869 | 0.001 | 11331 | 49.74 | Toluene |
| 12.762 | 0.001 | 2327 | 12.01 | Ethylbenzene |
| 12.926 | 0.003 | 8238 | 39.27 | M/P-Xylene |
| 13.871 | 0.001 | 2587 | 15.37 | O-Xylene |
| 4.515 | -0.005 | 236 | 2.61 | MTBE |

A Indicates Peak Area was used for quantitation instead of Height

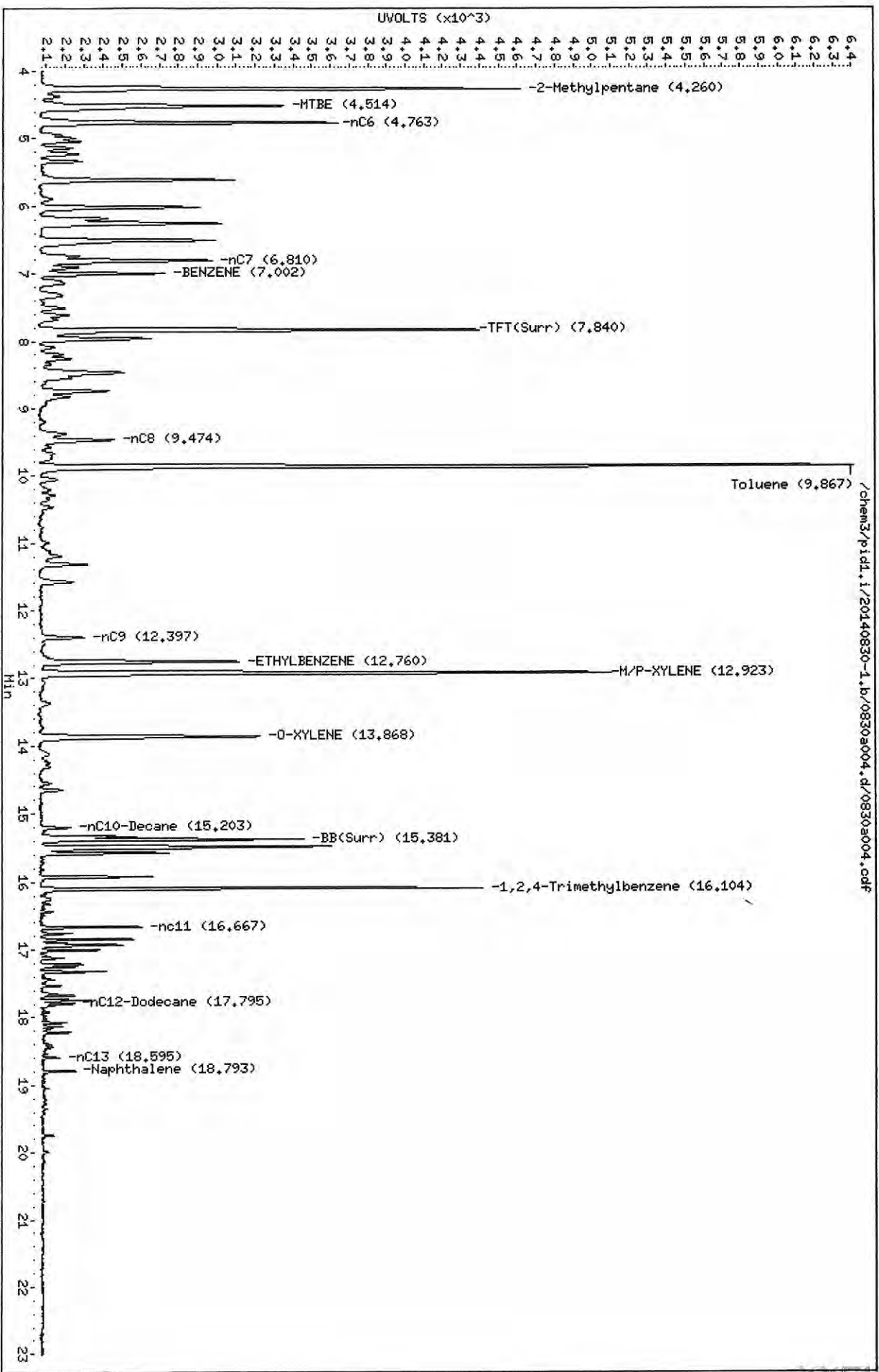
N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140830-1.b/0830a004.d
Date: 30-AUG-2014 11:32
Client ID:
Sample Info: LCS0830

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC
Column diameter: 0.18

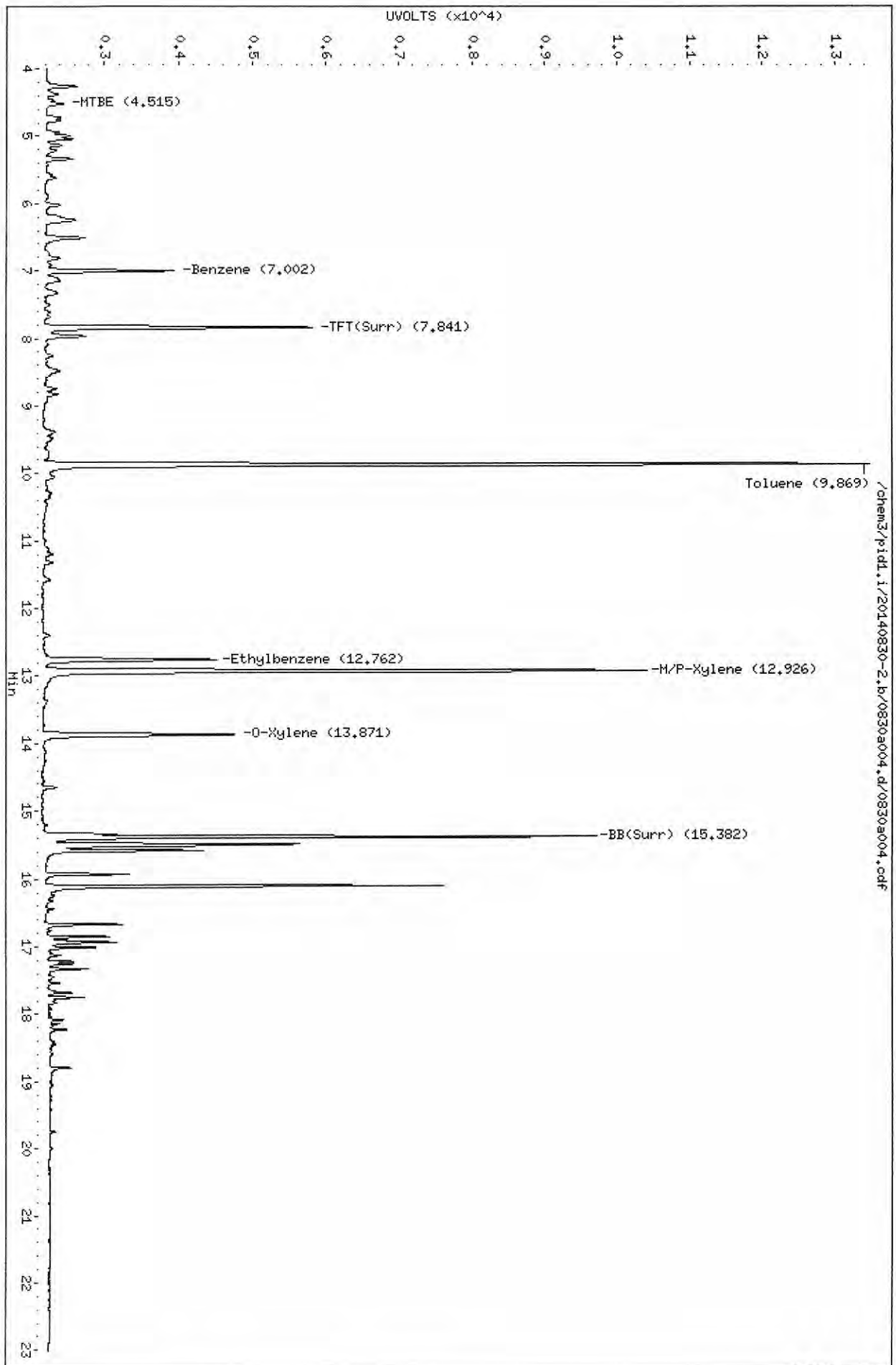


754:00020

Data File: /chem3/pid1.i/20140830-2.b/0830a004.d
Date : 30-AUG-2014 11:32
Client ID:
Sample Info: LCS0830

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18

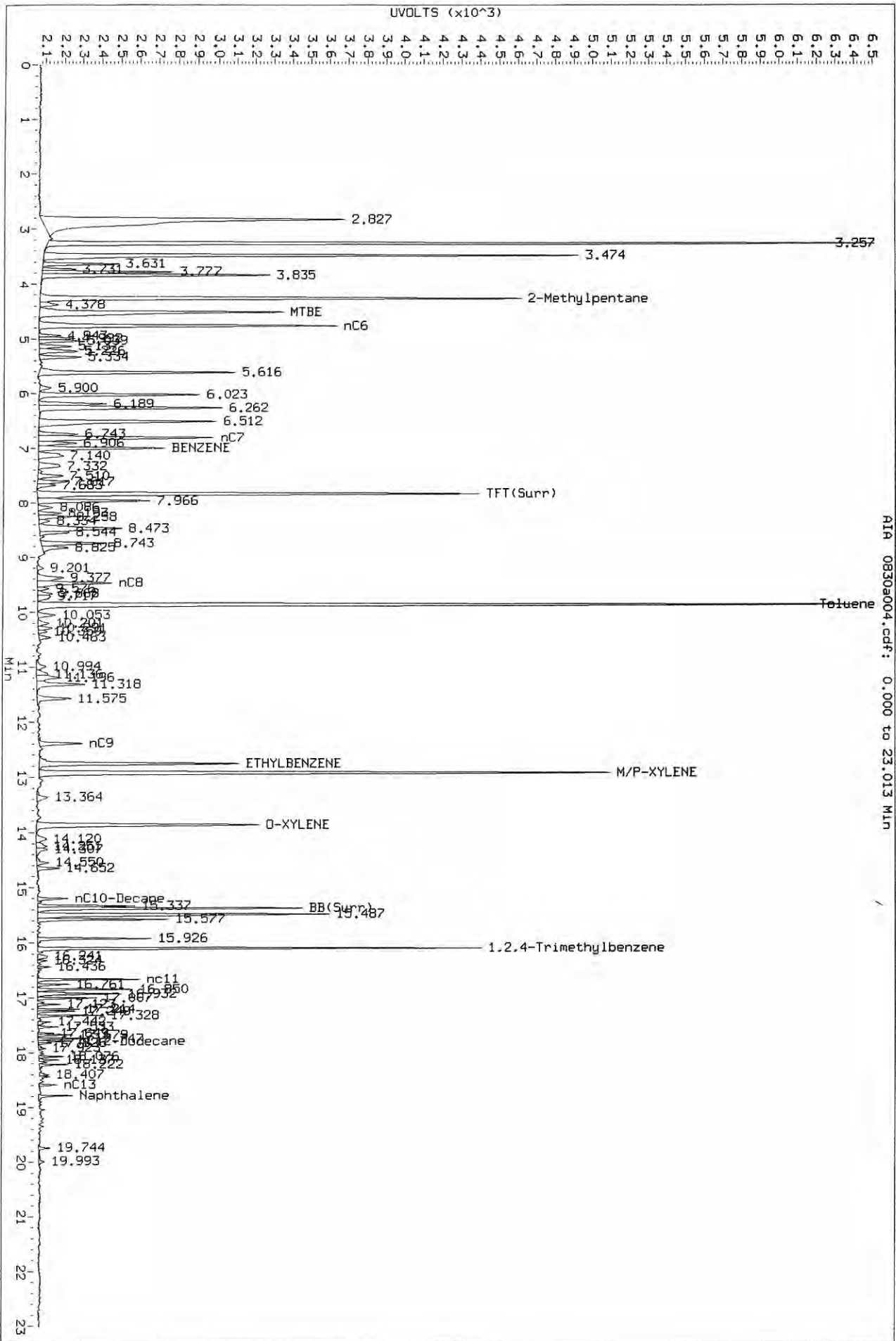


/chem3/pid1.i/20140830-2.b/0830a004.d/0830a004.cdf

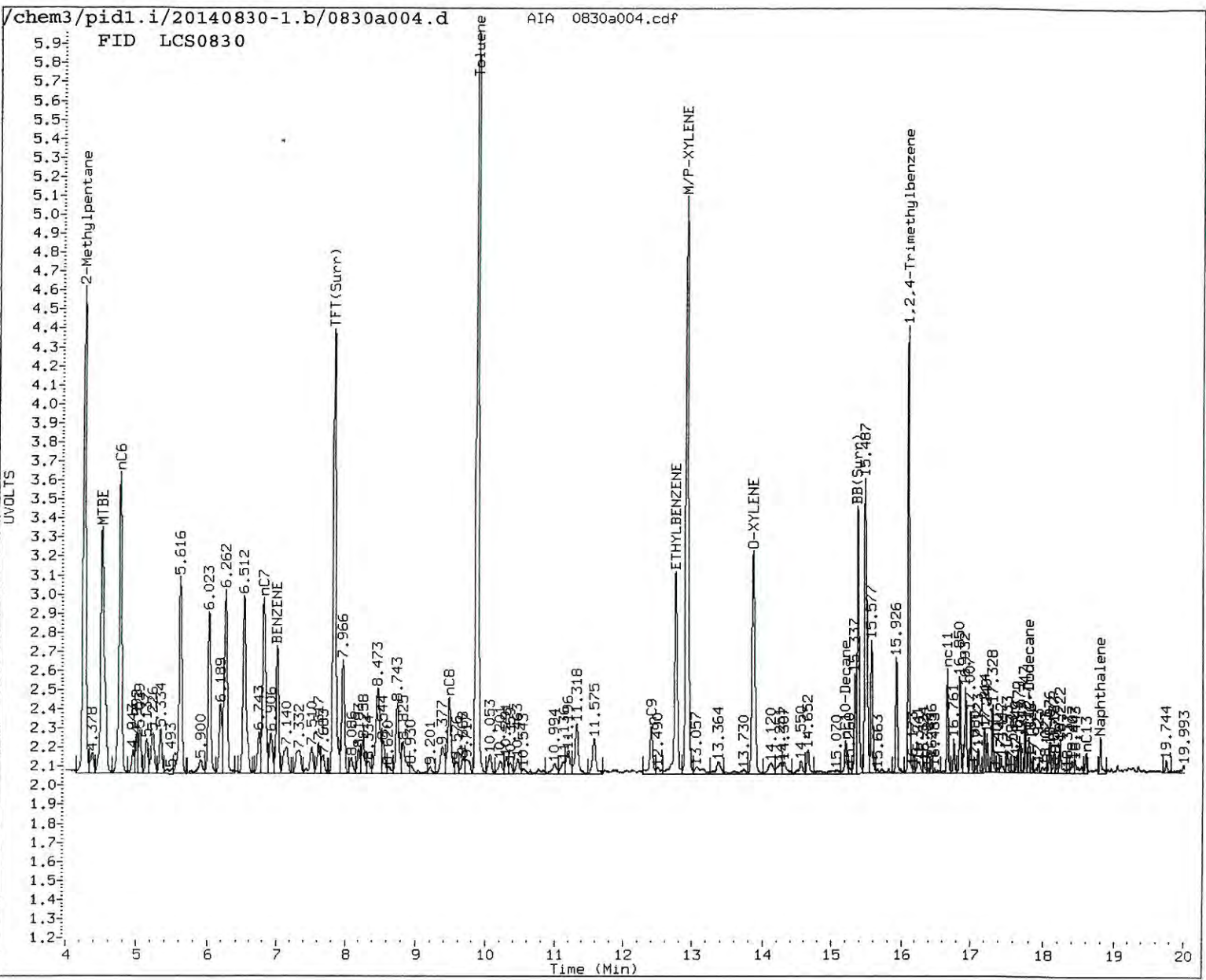
YX54: 00021

PC
8/2/14

Data File: /chem3/pid1.1/20140830-1.b/0830a004.d/0830a004.cdf
Injection Date: 30-AUG-2014 11:32
Instrument: pid1.1
Client Sample ID:



AIA 0830a004.cdf: 0.000 to 23.013 Min



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: YC Date: 9/2/14

PK
9/2/14

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140830-1.b/0830a005.d ARI ID: LCSD0830
Data file 2: /chem3/pid1.i/20140830-2.b/0830a005.d Client ID:
Method: /chem3/pid1.i/20140830-2.b/PIDB.m Injection Date: 30-AUG-2014 12:02
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 01-AUG-2014 Dilution Factor: 1.000
BETX Ical Date: 01-AUG-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|-----------|
| 7.839 | 0.001 | 2374 | 32417 | 100.3 | TFT(Surr) |
| 15.380 | 0.000 | 1441 | 13860 | 99.5 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 (9.77 to 17.90) | 255374 | 261609 | 1.024 M |
| 8015C 2MP-TMB (4.16 to 16.20) | 464685 | 492076 | 1.059 M |
| AK101 nC6-nC10 (4.66 to 15.10) | 351052 | 373352 | 1.064 M |
| NWTPHG Tol-Nap (9.77 to 18.89) | 264430 | 270484 | 1.023 M |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|------|-----------|
| 7.841 | 0.001 | 3715 | 97.4 | TFT(Surr) |
| 15.382 | 0.000 | 7753 | 96.4 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|--------|--------|----------|--------|--------------|
| 7.002 | 0.001 | 1778 | 6.71 | Benzene |
| 9.868 | 0.000 | 11490 | 50.44 | Toluene |
| 12.762 | 0.000 | 2385 | 12.31 | Ethylbenzene |
| 12.925 | 0.002 | 8445 | 40.26 | M/P-Xylene |
| 13.871 | 0.001 | 2652 | 15.76 | O-Xylene |
| 4.514 | -0.005 | 251 | 2.78 | MTBE |

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak was manually integrated

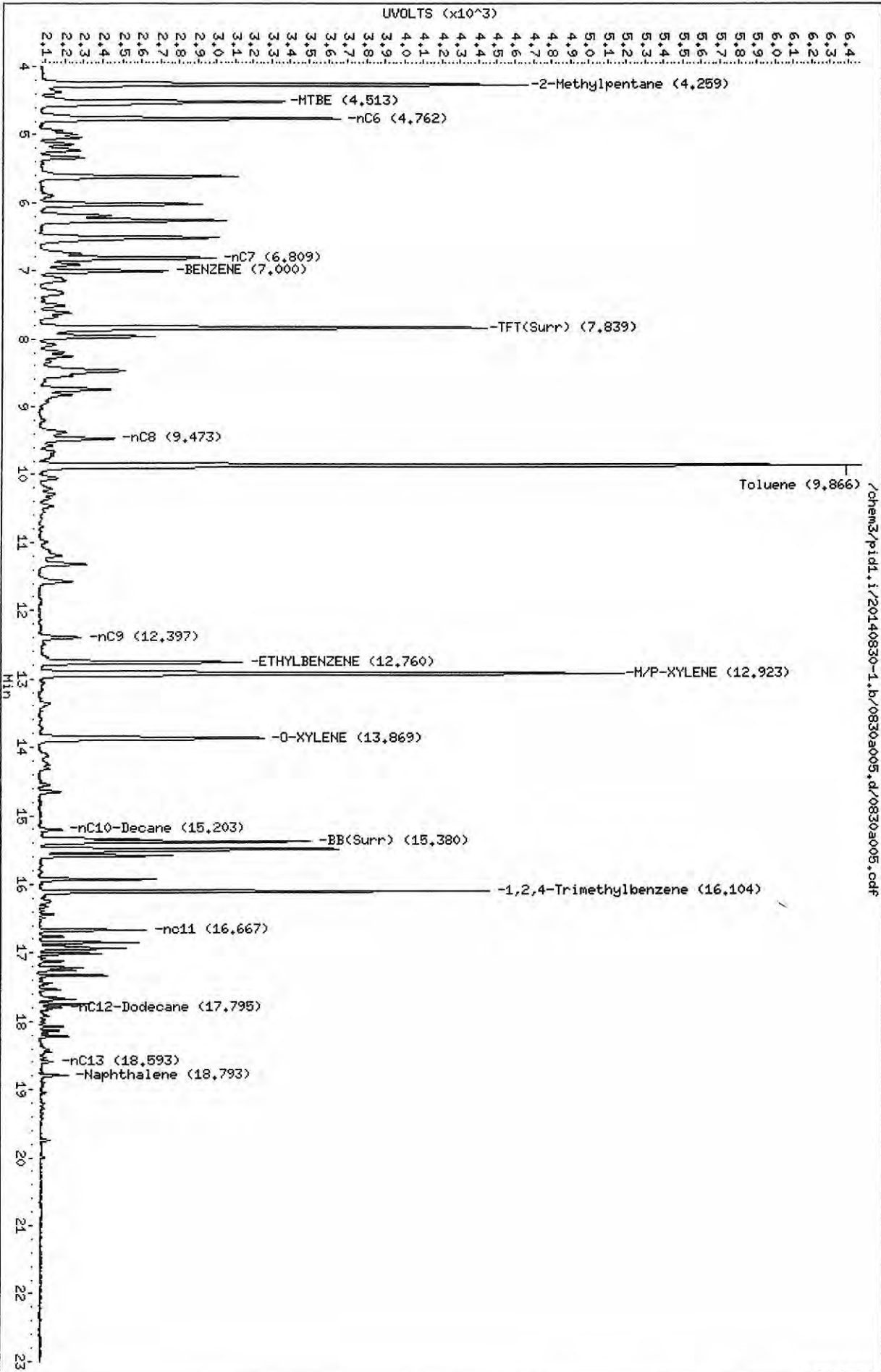
Data File: /chem3/pid1.i/20140830-1.b/0830a005.d
Date: 30-AUG-2014 12:02
Client ID:
Sample Info: LCSD0830

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

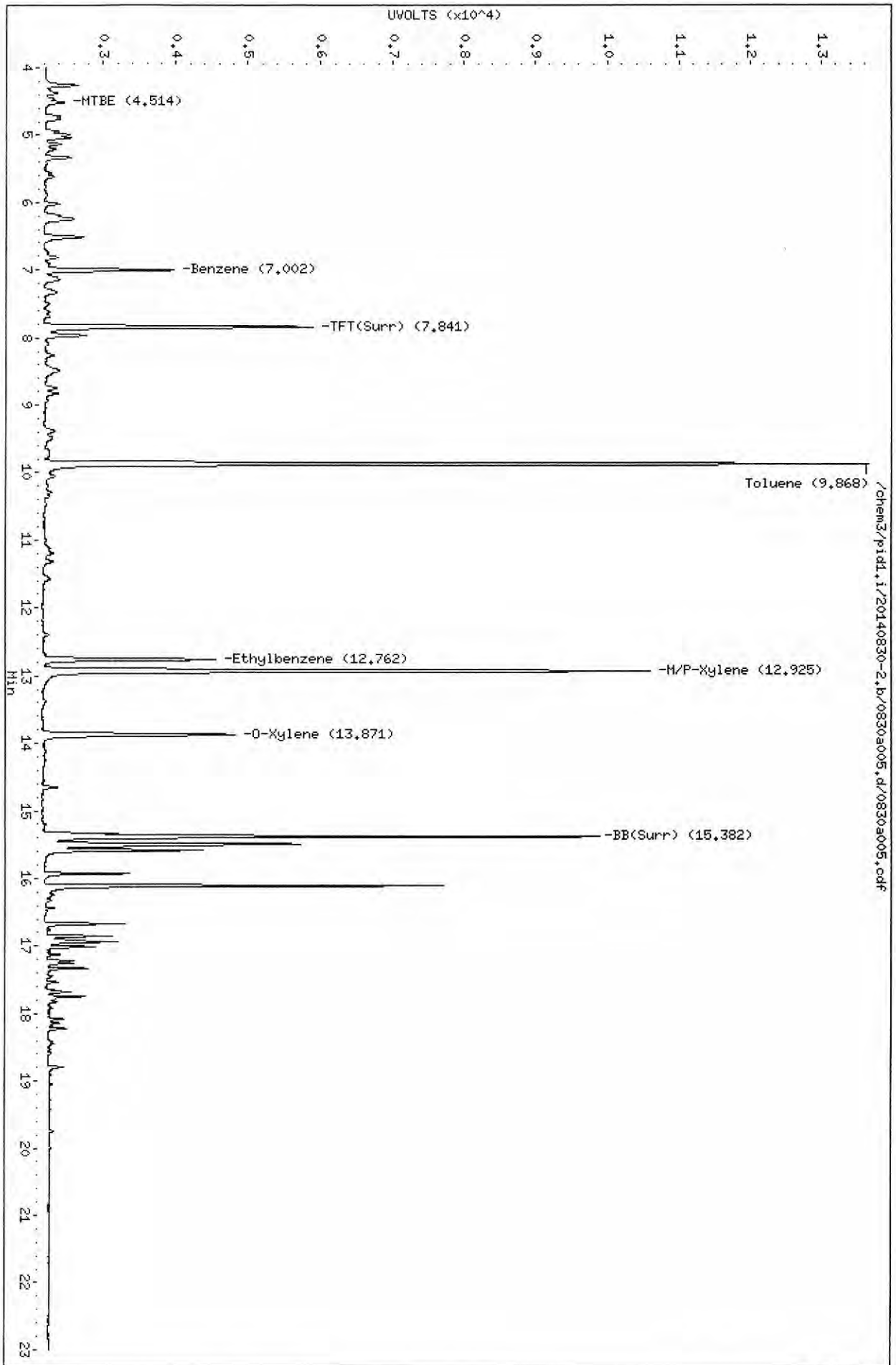
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid1.i/20140830-2.b/0830a005.d
Date: 30-AUG-2014 12:02
Client ID:
Sample Info: LCSD0830

Column phase: RTX 502-2 PID

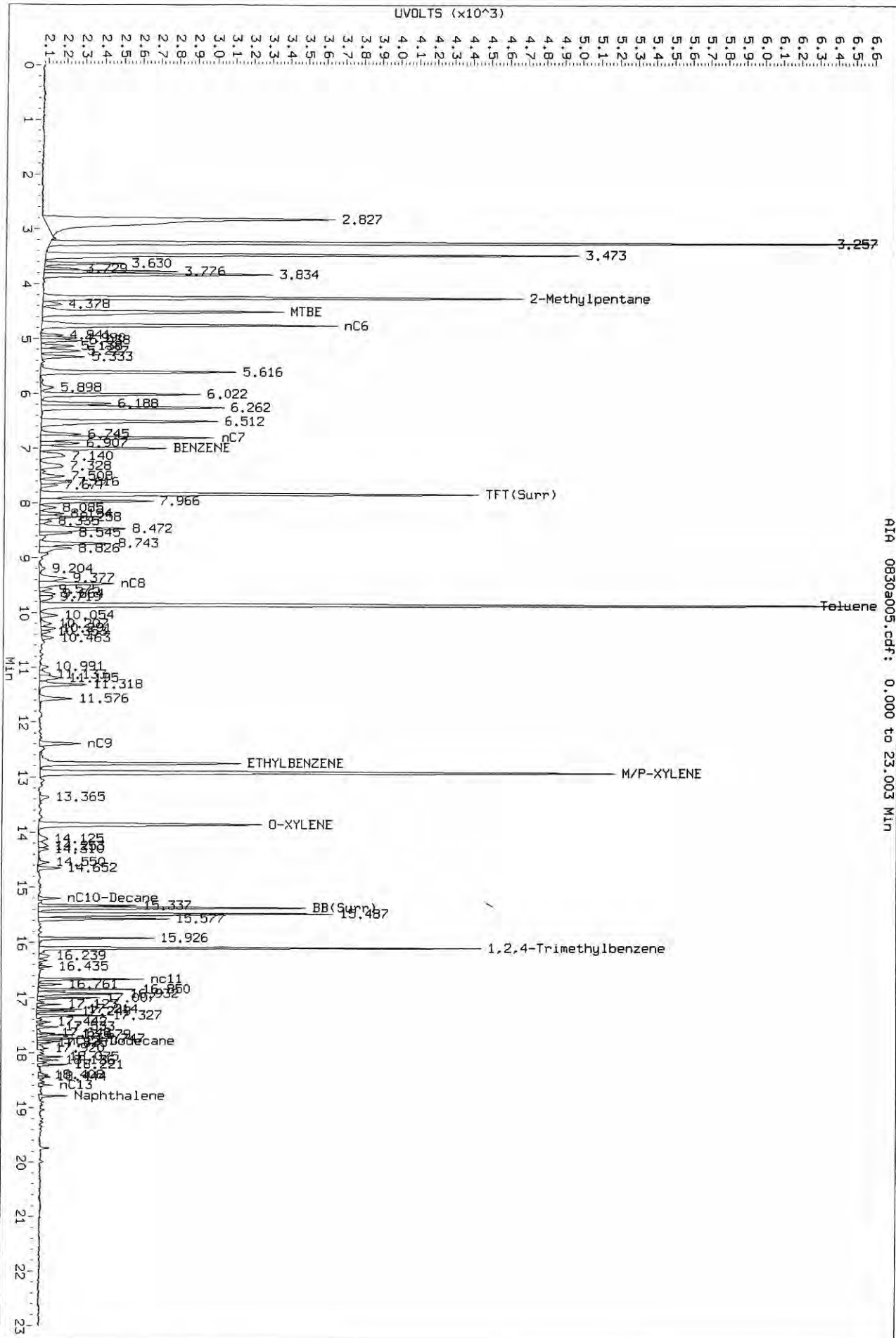
Instrument: pid1.i
Operator: PC
Column diameter: 0.18



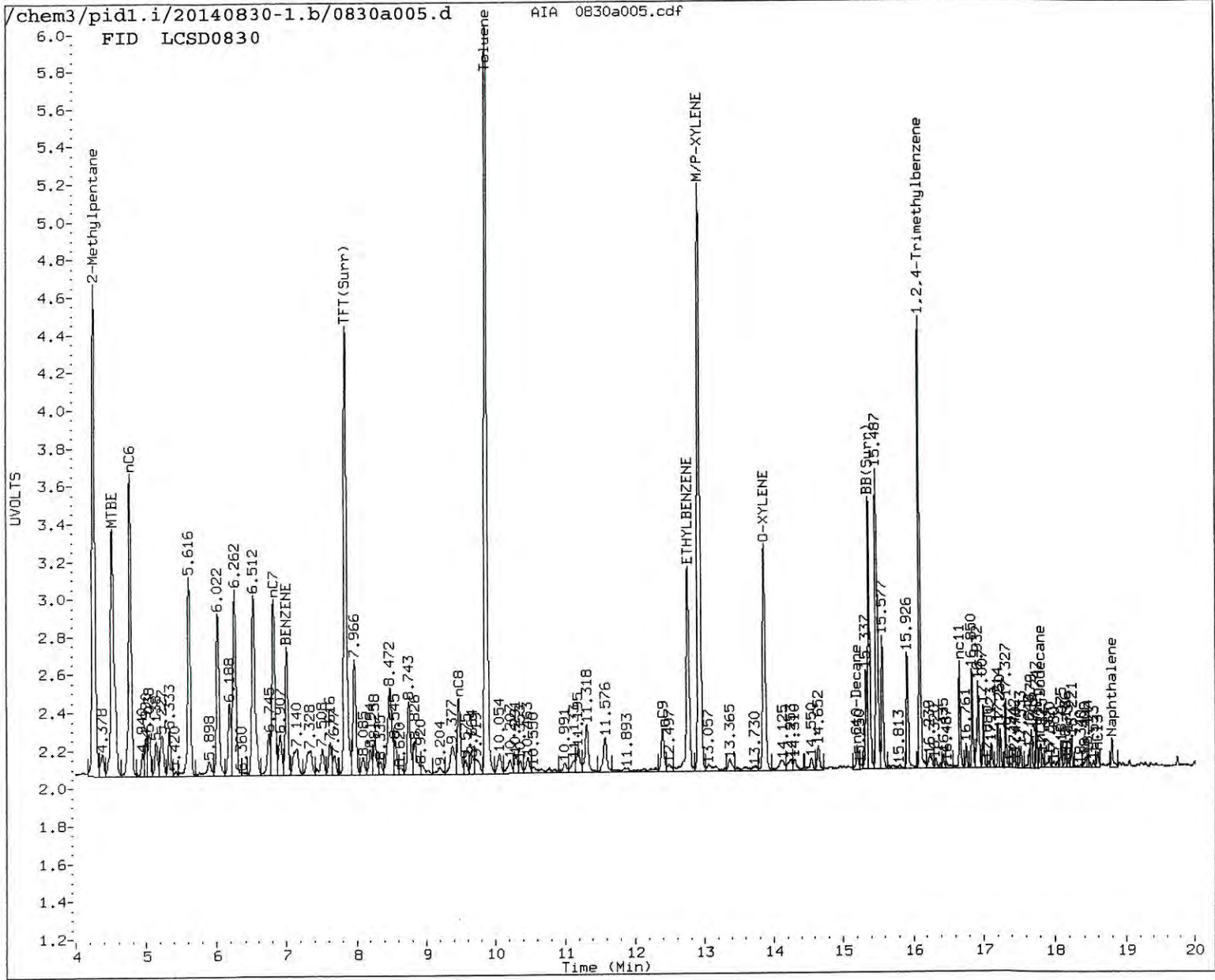
1.254 : 00026

PK
9/2/14

Data File: /chem3/pid1.1/20140830-1.b/0830a005.d/0830a005.cdf
Injection Date: 30-AUG-2014 12:02
Instrument: pid1.1
Client Sample ID:



AIA 0830a005.cdf: 0.000 to 23.003 MIN



MANUAL INTEGRATION

- 1) Baseline correction
- 2) Poor chromatography
- 3) Peak not found
- 4. Totals calculation

5. Other _____

Analyst: ML

Date: 9/2/14

Analytical Resources Inc.
 BETX/Gas Quantitation Report

PC
 9/2/14

Data file 1: /chem3/pid1.i/20140830-1.b/0830a006.d ARI ID: MB0830
 Data file 2: /chem3/pid1.i/20140830-2.b/0830a006.d Client ID:
 Method: /chem3/pid1.i/20140830-2.b/PIDB.m Injection Date: 30-AUG-2014 12:31
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 01-AUG-2014 Dilution Factor: 1.000
 BETX Ical Date: 01-AUG-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|------|-----------|
| -- | ---- | ----- | ----- | ---- | ----- |
| 7.838 | 0.000 | 2325 | 29867 | 98.3 | TFT(Surr) |
| 15.380 | 0.000 | 1400 | 12726 | 96.6 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 (9.77 to 17.90) | 255374 | 0 | 0.000 |
| 8015C 2MP-TMB (4.16 to 16.20) | 464685 | 0 | 0.000 |
| AK101 nC6-nC10 (4.66 to 15.10) | 351052 | 0 | 0.000 |
| NWTPHG Tol-Nap (9.77 to 18.89) | 264430 | 0 | 0.000 |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|------|-----------|
| -- | ---- | ----- | ---- | ----- |
| 7.841 | 0.001 | 3604 | 94.4 | TFT(Surr) |
| 15.383 | 0.001 | 7528 | 93.6 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|--------------|
| -- | ---- | ----- | ----- | ----- |
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

A Indicates Peak Area was used for quantitation instead of Height

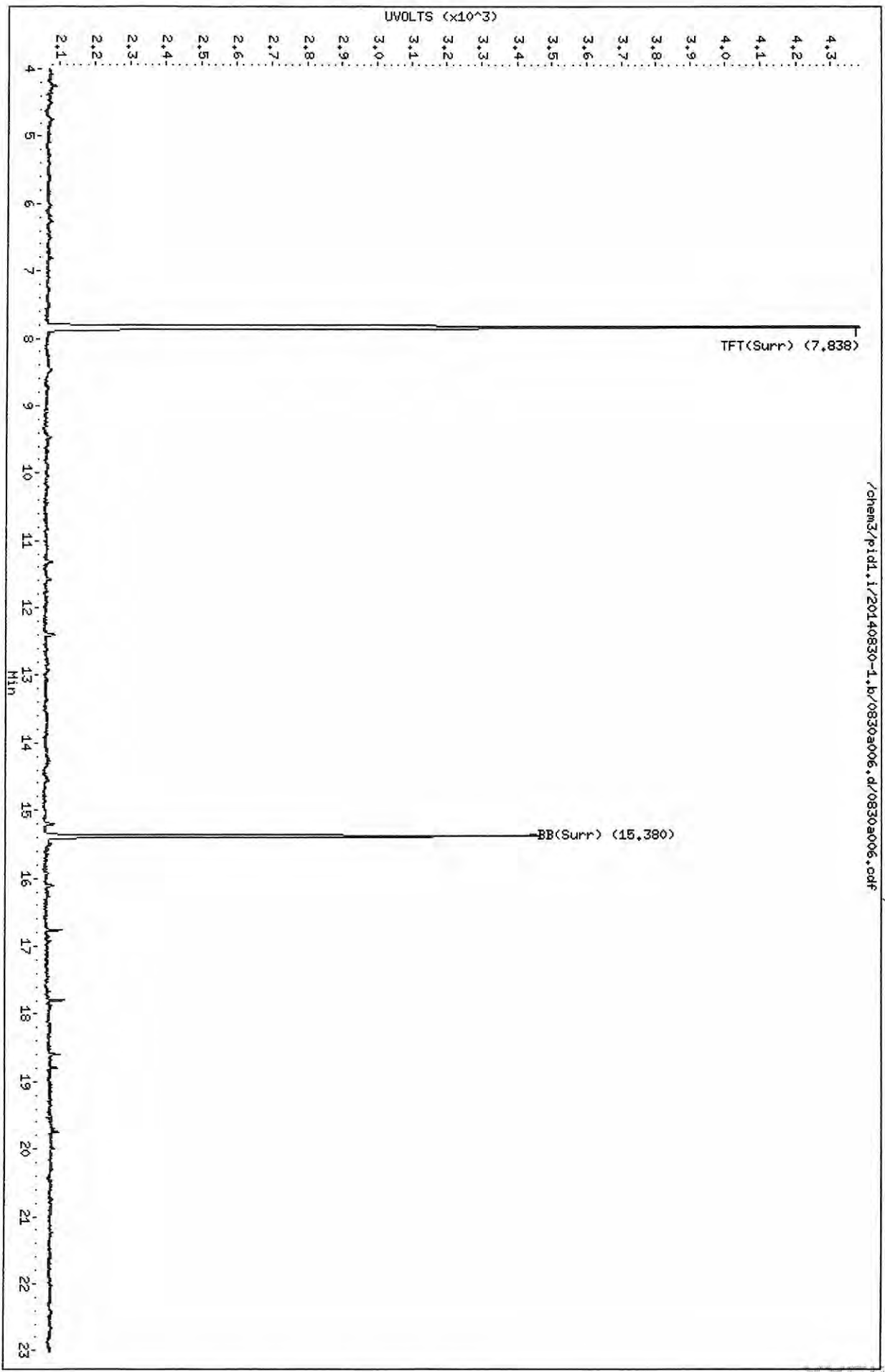
N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140830-1.b/0830a006.d
Date: 30-AUG-2014 12:31
Client ID:
Sample Info: HB0830

Instrument: pid1.i

Column phase: RTX 502-2 FID

Operator: PC
Column diameter: 0.18



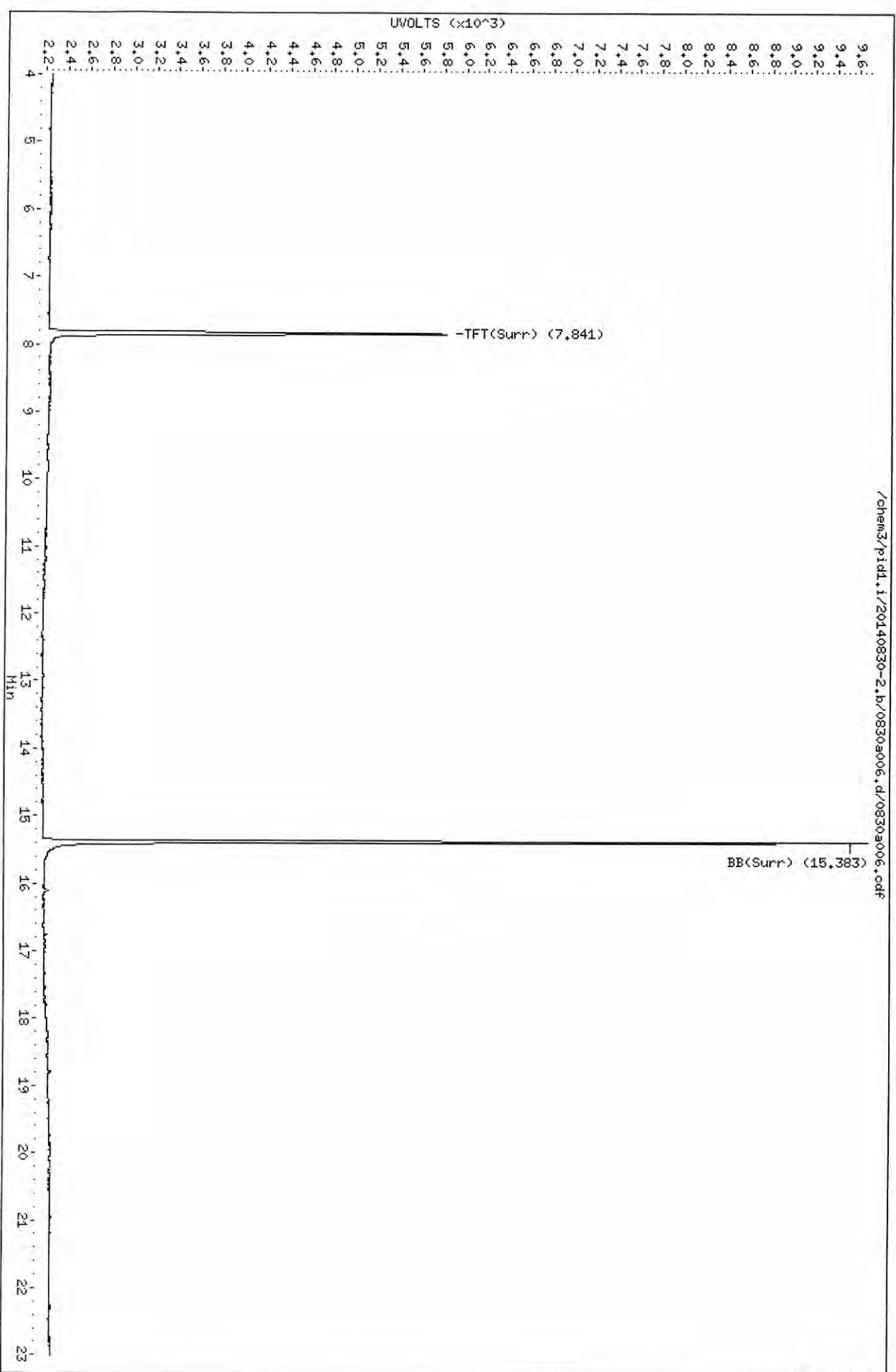
/chem3/pid1.i/20140830-1.b/0830a006.d/0830a006.cdf

7X54:00000

Data File: /chem3/pid1.i/20140830-2.b/0830a006.d
Date: 30-AUG-2014 12:31
Client ID:
Sample Info: MB0830

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



15000 154

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Sam 9/3/14

Data file 1: /chem3/pid1.i/20140830-1.b/0830a009.d ARI ID: YX54A
 Data file 2: /chem3/pid1.i/20140830-2.b/0830a009.d Client ID: MW-14
 Method: /chem3/pid1.i/20140830-2.b/PIDB.m Injection Date: 30-AUG-2014 14:20
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 01-AUG-2014 Dilution Factor: 1.000
 BETX Ical Date: 01-AUG-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|-----------|
| 7.840 | 0.002 | 2521 | 35792 | 106.6 | TFT(Surr) |
| 15.380 | 0.000 | 1507 | 14934 | 104.0 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 (9.77 to 17.90) | 255374 | 203186 | 0.796 M |
| 8015C 2MP-TMB (4.16 to 16.20) | 464685 | 248976 | 0.536 M |
| AK101 nC6-nC10 (4.66 to 15.10) | 351052 | 203308 | 0.579 M |
| NWTPHG Tol-Nap (9.77 to 18.89) | 264430 | 289946 | 1.096 M |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-----------|
| 7.841 | 0.001 | 3901 | 102.2 | TFT(Surr) |
| 15.382 | 0.000 | 8089 | 100.6 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|--------|--------|----------|--------|--------------|
| ND | --- | --- | --- | Benzene |
| 9.870 | 0.003 | 35 | 0.15N | Toluene |
| 12.761 | -0.001 | 207 | 1.07 | Ethylbenzene |
| 12.923 | 0.000 | 17 | 0.08N | M/P-Xylene |
| 13.877 | 0.007 | 33 | 0.20N | O-Xylene |
| 4.514 | -0.006 | 101 | 1.12 | MTBE |

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak was manually integrated

Analytical Resources, Inc.

Data file : /chem3/pid1.i/20140830-1.b/0830a009.d
Lab Smp Id: YX54A Client Smp ID: MW-14
Inj Date : 30-AUG-2014 14:20
Operator : PC Inst ID: pid1.i
Smp Info : YX54A
Misc Info : 14-17328
Comment :
Method : /chem3/pid1.i/20140830-1.b/FID.m
Meth Date : 30-Aug-2014 11:56 paul Quant Type: ESTD
Cal Date : 30-AUG-2014 10:34 Cal File: 0830a002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: standard.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/L) |
| 5 2-Methylpentane | 4.253 | 4.261 | -0.008 | 477 | | (M) |
| 6 MTBE | 4.513 | 4.519 | -0.006 | 7705 | 13.8924 | 13.89(M) |
| 8 nC7 | 6.840 | 6.807 | 0.033 | 261 | | (M) |
| \$ 10 TFT(Surr) | 7.840 | 7.838 | 0.002 | 2521 | 106.560 | 106.6(M) |
| 12 Toluene | 9.923 | 9.866 | 0.057 | 1883 | 1.75770 | 1.76(M) |
| 13 nC9 | 12.370 | 12.396 | -0.026 | 80 | | (M) |
| 14 ETHYLBENZENE | 12.757 | 12.760 | -0.003 | 2358 | 2.38346 | 2.38(M) |
| 16 O-XYLENE | 13.870 | 13.868 | 0.002 | 1245 | 1.18345 | 1.18(M) |
| 17 nC10-Decane | 15.210 | 15.203 | 0.007 | 55 | | (M) |
| \$ 18 BB(Surr) | 15.380 | 15.380 | 0.000 | 1507 | 104.026 | 104.0(M) |
| 20 1,2,4-Trimethylbenzene | 16.103 | 16.104 | -0.001 | 1029 | | (M) |
| 21 nc11 | 16.667 | 16.701 | -0.034 | 246 | | (M) |
| 22 nC12-Dodecane | 17.783 | 17.796 | -0.013 | 263 | | (M) |
| 23 nC13 | 18.583 | 18.596 | -0.013 | 974 | | (M) |
| 24 Naphthalene | 18.793 | 18.793 | 0.000 | 209 | | (M) |

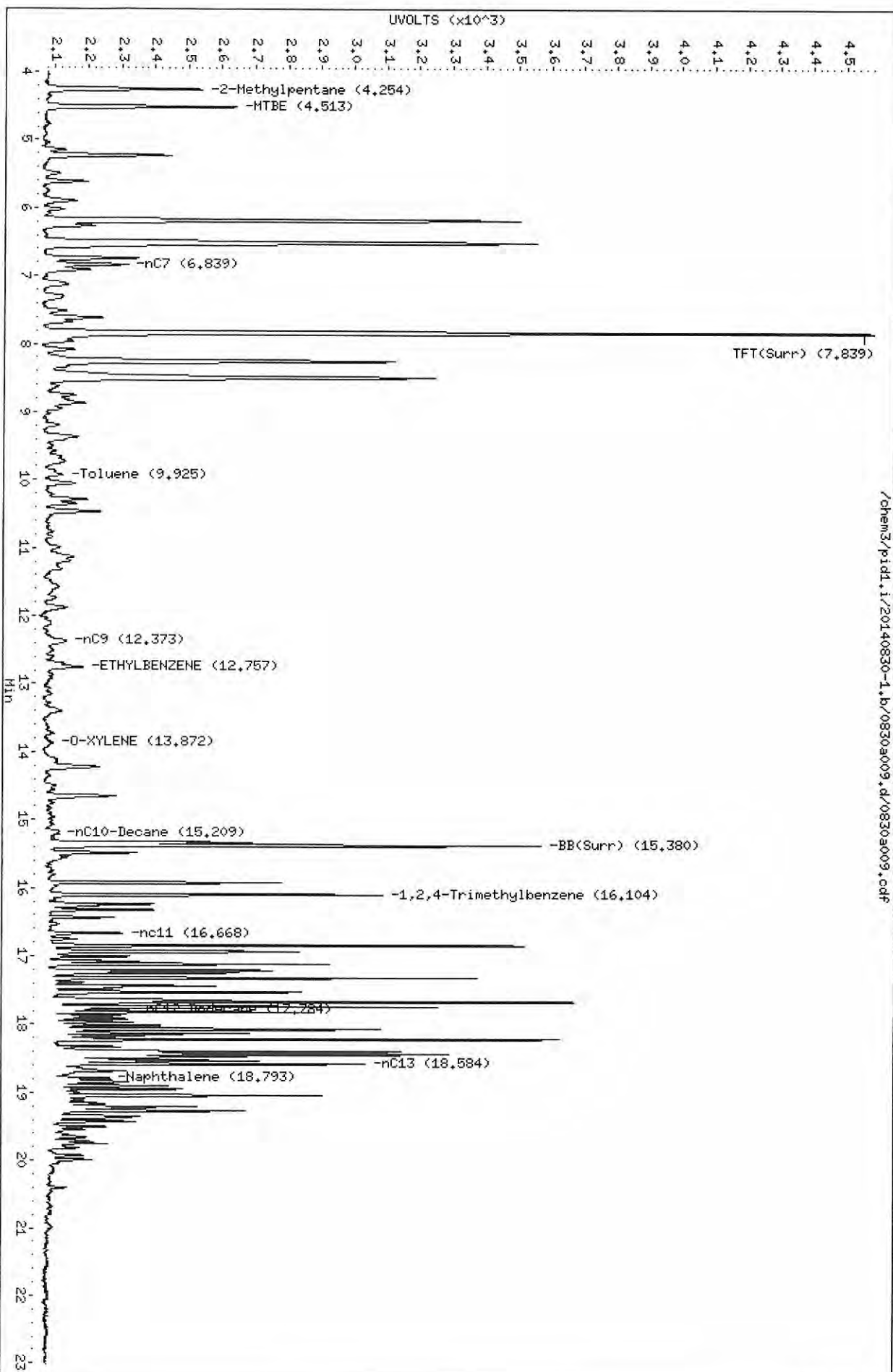
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem3/pid1.i/20140830-1.b/0830a009.d
Date: 30-AUG-2014 14:20
Client ID: MM-14
Sample Info: YX54H

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



/chem3/pid1.i/20140830-1.b/0830a009.d/0830a009.cdf

Data File: /chem3/pid1.1/20140830-2.b/0830a009.d
Date: 30-AUG-2014 14:20
Client ID: MW-14
Sample Info: YX54A

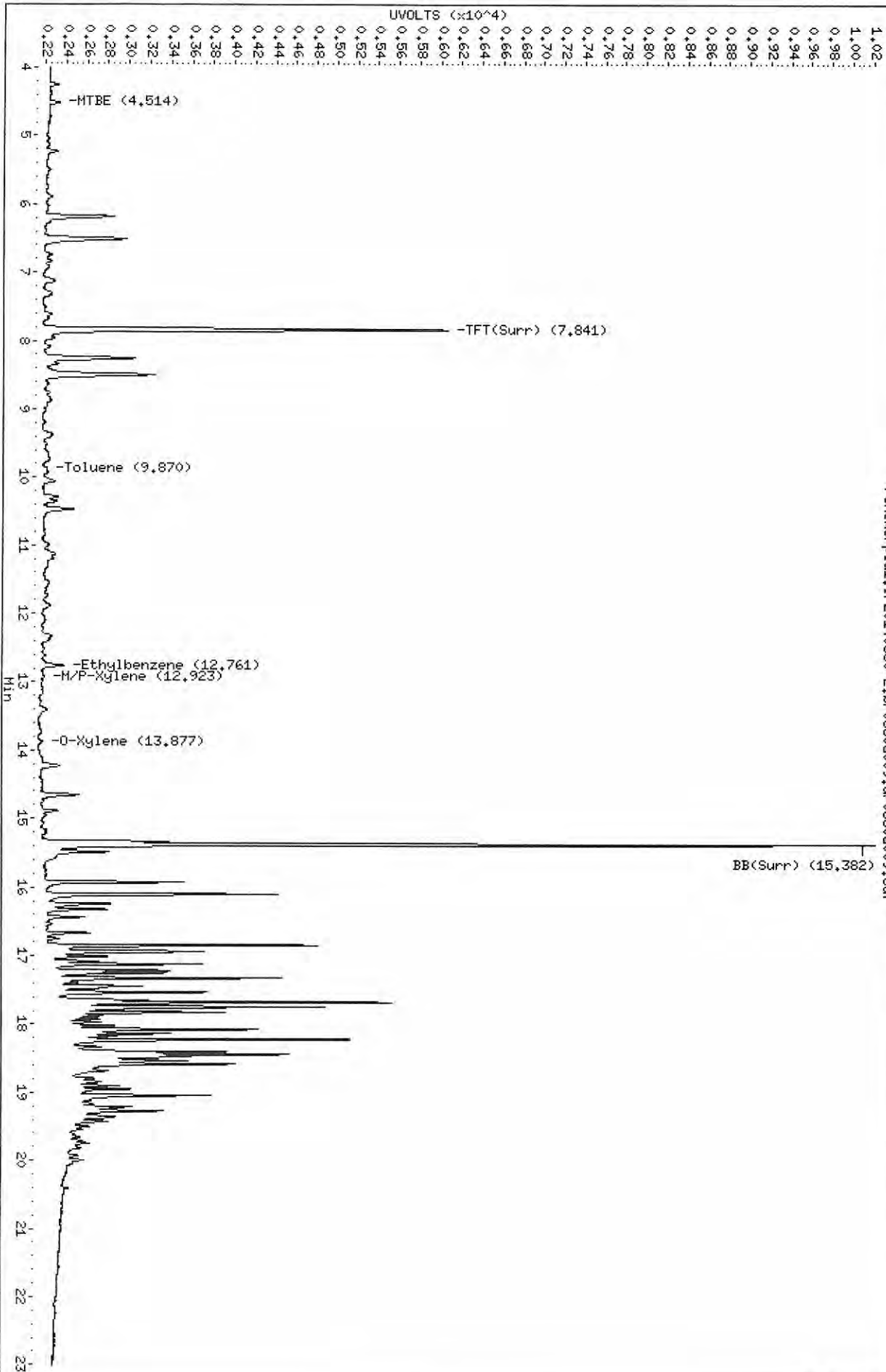
Instrument: pid1.1

Page 1

Column phase: RTX 502-2 PID

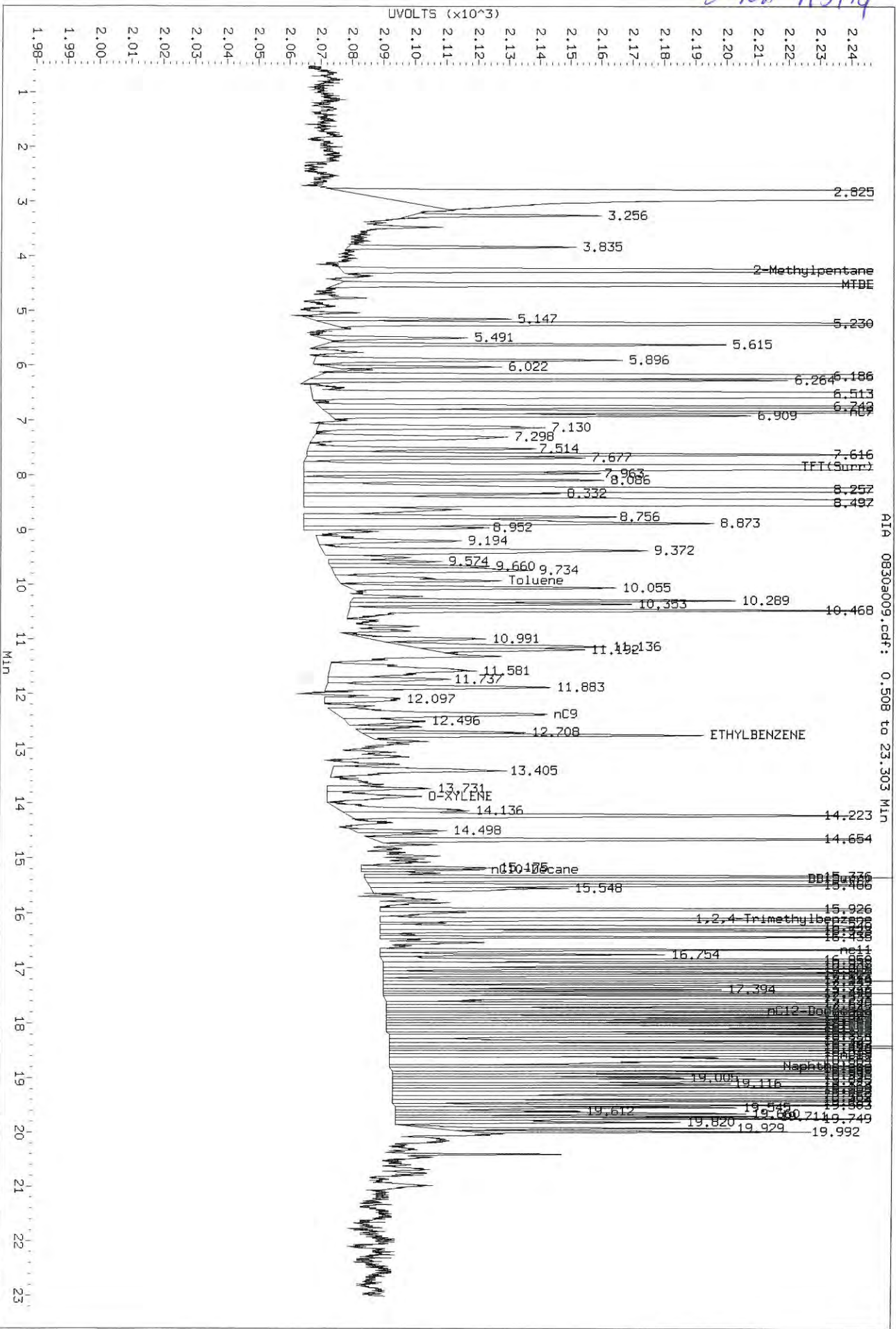
Operator: PC
Column diameter: 0.18

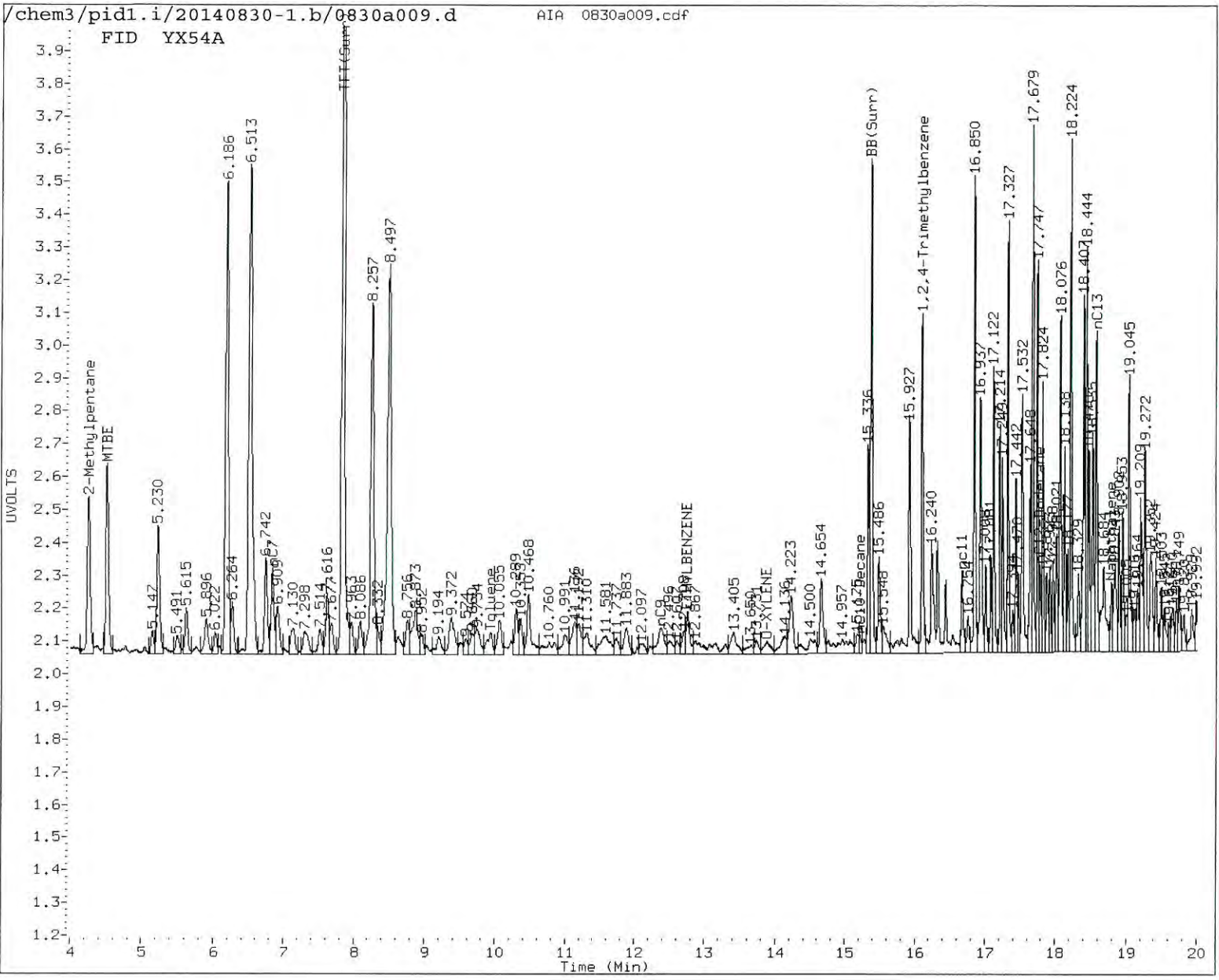
/chem3/pid1.1/20140830-2.b/0830a009.d/0830a009.cdf



data 9/3/14

Data File: /chem3/pid1.1/20140830-1.b/0830a009.d/0830a009.cdf
Injection Date: 30-AUG-2014 14:20
Instrument: pid1.1
Client Sample ID: MW-14





MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

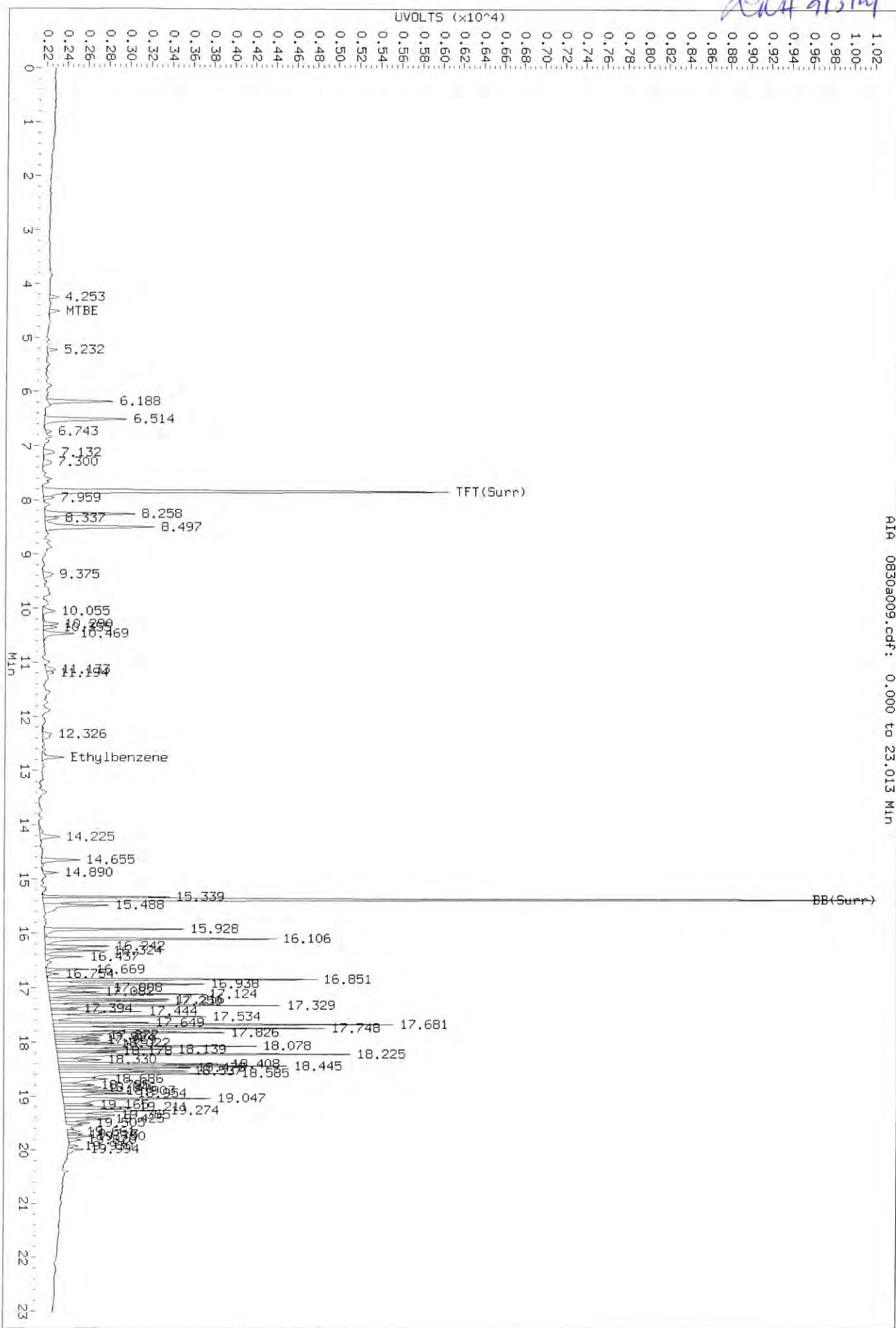
5. Other _____

Analyst: SWH

Date: 9/3/14

Run 9/13/14

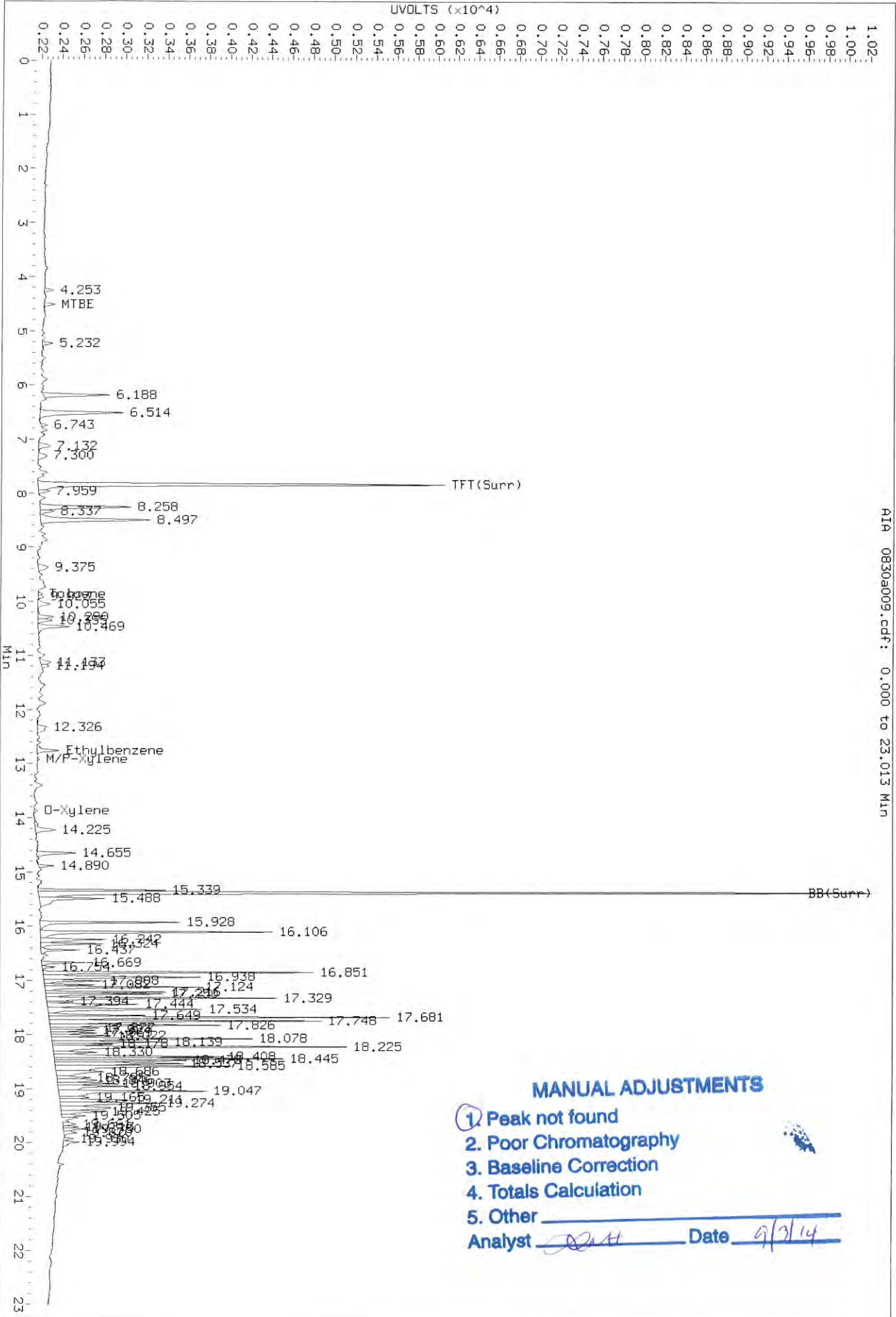
Data File: /chem3/pid1.1/20140830-2.b/0830a009.d/0830a009.cdf
Injection Date: 30-AUG-2014 14:20
Instrument: pid1.1
Client Sample ID: MW-14



AIA 0830a009.cdf: 0.000 to 23.013 MIN

YX54: 86635

Data File: /chem3/pid1.1/20140830-2.b/0830a009.d/0830a009.cdf
 Injection Date: 30-AUG-2014 14:20
 Instrument: pid1.1
 Client Sample ID: MM-14



AIA 0830a009.cdf: 0.000 to 23.013 Min

MANUAL ADJUSTMENTS

- 1. Peak not found
 - 2. Poor Chromatography
 - 3. Baseline Correction
 - 4. Totals Calculation
 - 5. Other _____
- Analyst Date 9/3/14

LAH 9/3/14

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140830-1.b/0830a010.d ARI ID: YX54B
Data file 2: /chem3/pid1.i/20140830-2.b/0830a010.d Client ID: MW-4R
Method: /chem3/pid1.i/20140830-2.b/PIDB.m Injection Date: 30-AUG-2014 14:49
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 01-AUG-2014 Dilution Factor: 1.000
BETX Ical Date: 01-AUG-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|-----------|
| 7.839 | 0.001 | 2418 | 31135 | 102.2 | TFT(Surr) |
| 15.381 | 0.001 | 1435 | 13127 | 99.1 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 (9.77 to 17.90) | 255374 | 0 | 0.000 |
| 8015C 2MP-TMB (4.16 to 16.20) | 464685 | 2165 | 0.005 |
| AK101 nC6-nC10 (4.66 to 15.10) | 351052 | 2165 | 0.006 |
| NWTPHG Tol-Nap (9.77 to 18.89) | 264430 | 871 | 0.003 |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|------|-----------|
| 7.841 | 0.001 | 3759 | 98.5 | TFT(Surr) |
| 15.383 | 0.001 | 7706 | 95.8 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|--------------|
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

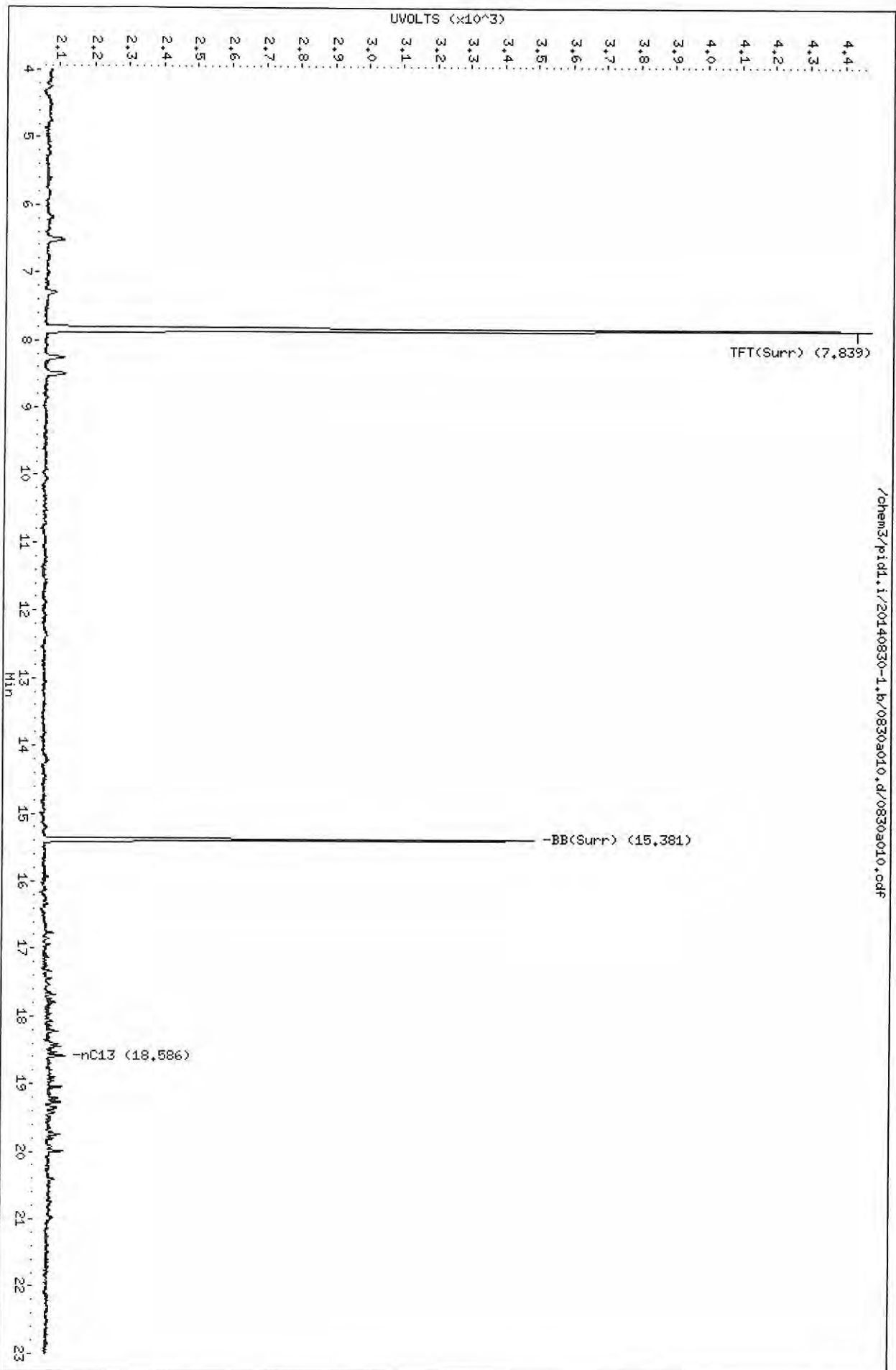
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140830-1.b/0830a010.d
Date: 30-AUG-2014 14:49
Client ID: MW-4R
Sample Info: YX54B

Column phase: RTX 502-2 FID

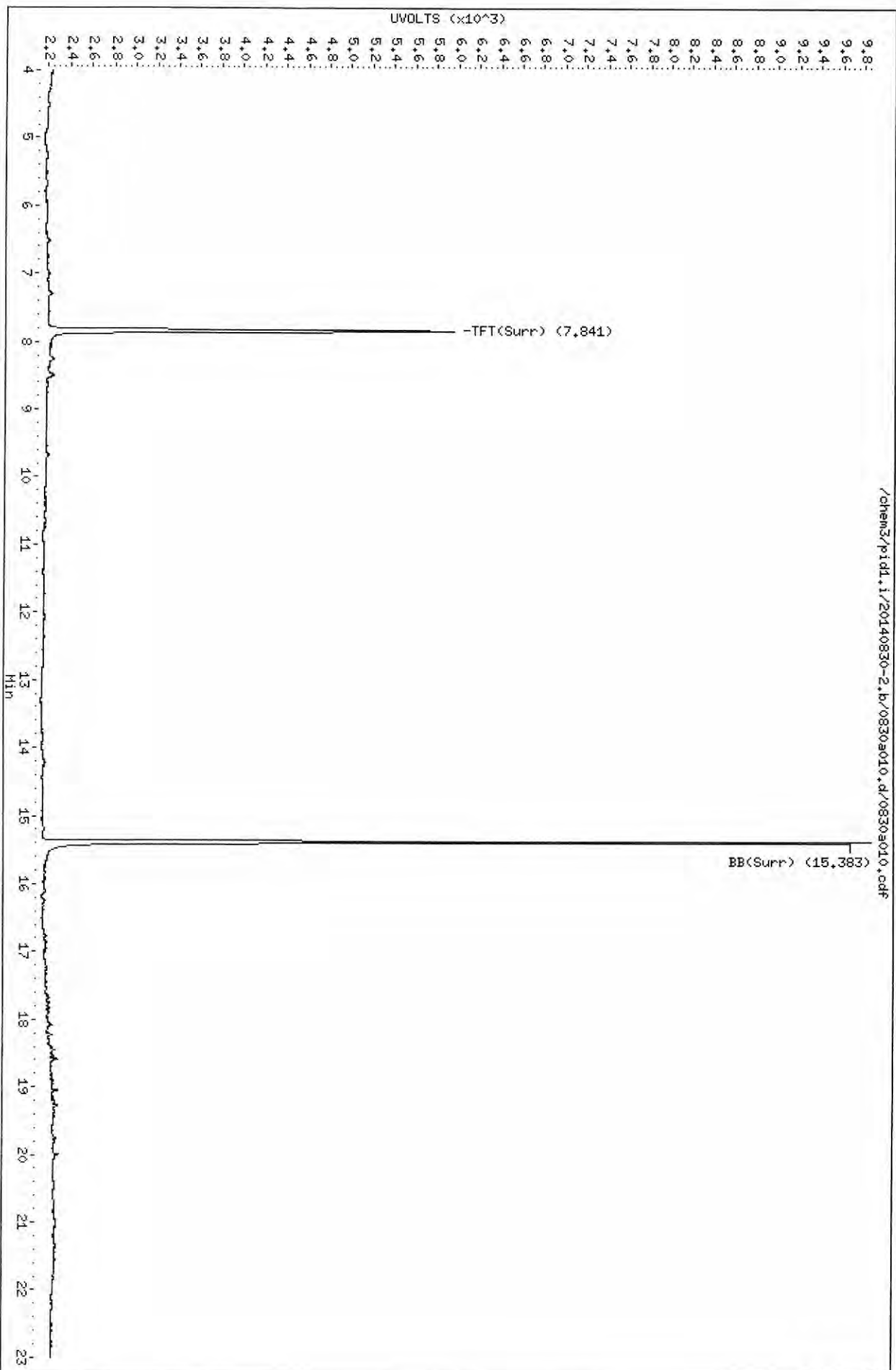
Instrument: pid1.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid1.i/20140830-2.b/0830a010.d
Date: 30-AUG-2014 14:49
Client ID: MW-4R
Sample Info: VXS4B

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



Analytical Resources Inc.
 BETX/Gas Quantitation Report

Ret 9/3/14

Data file 1: /chem3/pid1.i/20140830-1.b/0830a011.d ARI ID: YX54C
 Data file 2: /chem3/pid1.i/20140830-2.b/0830a011.d Client ID: MW-13
 Method: /chem3/pid1.i/20140830-2.b/PIDB.m Injection Date: 30-AUG-2014 15:19
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 01-AUG-2014 Dilution Factor: 1.000
 BETX Ical Date: 01-AUG-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|-----------|
| 7.839 | 0.001 | 2462 | 31785 | 104.1 | TFT(Surr) |
| 15.381 | 0.001 | 1483 | 13603 | 102.4 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 (9.77 to 17.90) | 255374 | 0 | 0.000 |
| 8015C 2MP-TMB (4.16 to 16.20) | 464685 | 0 | 0.000 |
| AK101 nC6-nC10 (4.66 to 15.10) | 351052 | 0 | 0.000 |
| NWTPHG Tol-Nap (9.77 to 18.89) | 264430 | 0 | 0.000 |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-----------|
| 7.841 | 0.001 | 3826 | 100.3 | TFT(Surr) |
| 15.383 | 0.001 | 7959 | 98.9 | BB(Surr) |

SW8021 (PID)

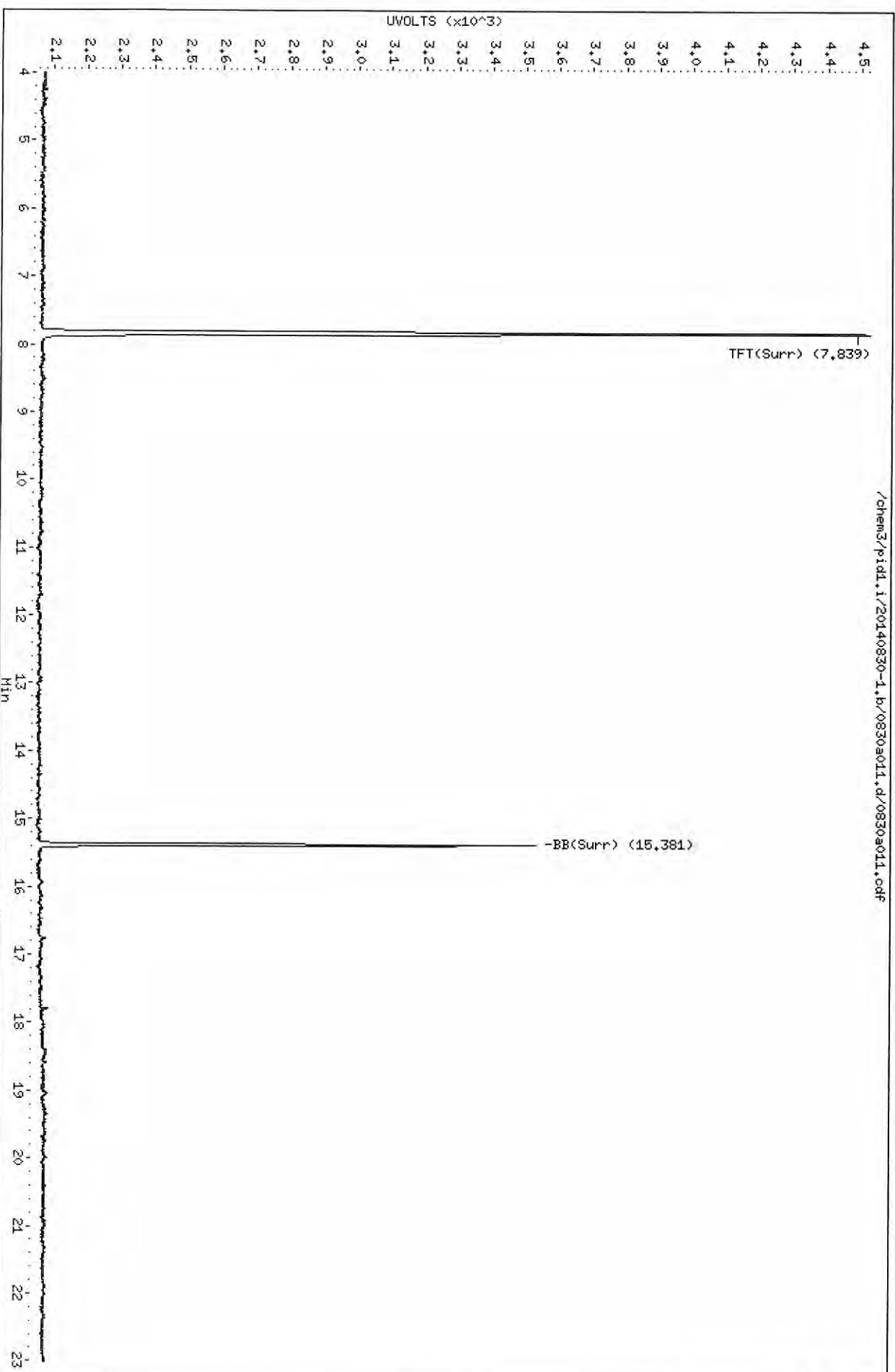
| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|--------------|
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140830-1.b/0830a011.d
Date : 30-AUG-2014 15:19
Client ID: MM-13
Sample Info: YK54C

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



/chem3/pid1.i/20140830-1.b/0830a011.d/0830a011.cdf

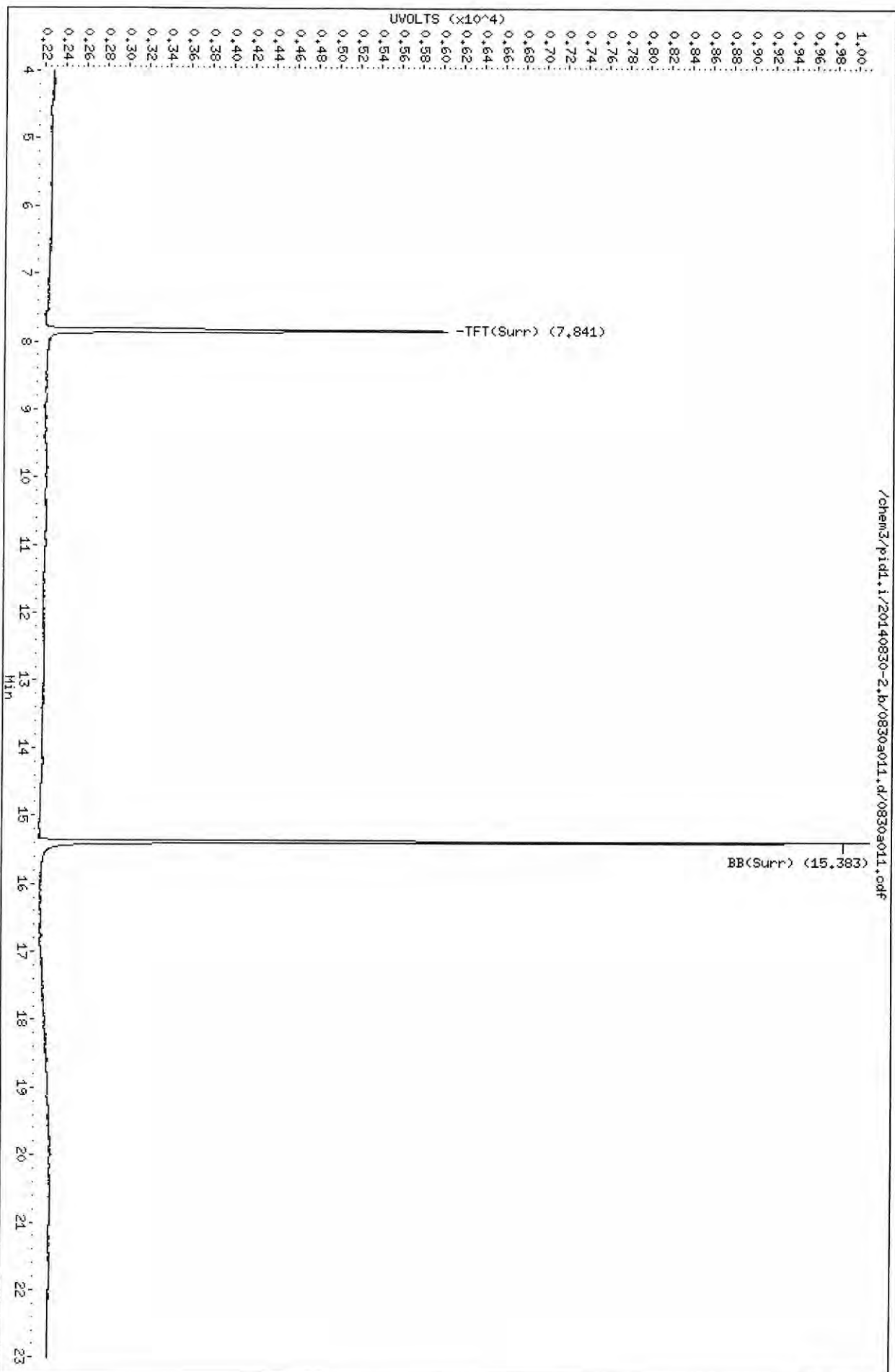
Data File: /chem3/pid1.i/20140830-2.b/0830a011.d
Date: 30-AUG-2014 15:19
Client ID: MM-13
Sample Info: YK54C

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 PID

Operator: PC
Column diameter: 0.18



YK54: 00045

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Handwritten: 9/3/14

Data file 1: /chem3/pid1.i/20140830-1.b/0830a012.d ARI ID: YX54D
 Data file 2: /chem3/pid1.i/20140830-2.b/0830a012.d Client ID: MW-6
 Method: /chem3/pid1.i/20140830-2.b/PIDB.m Injection Date: 30-AUG-2014 15:48
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 01-AUG-2014 Dilution Factor: 1.000
 BETX Ical Date: 01-AUG-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|-----------|
| 7.840 | 0.002 | 2481 | 35033 | 104.9 | TFT(Surr) |
| 15.380 | 0.000 | 1449 | 14062 | 100.0 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 (9.77 to 17.90) | 255374 | 68446 | 0.268 M |
| 8015C 2MP-TMB (4.16 to 16.20) | 464685 | 124722 | 0.268 M |
| AK101 nC6-nC10 (4.66 to 15.10) | 351052 | 119852 | 0.341 M |
| NWTPHG Tol-Nap (9.77 to 18.89) | 264430 | 98838 | 0.374 M |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-----------|
| 7.841 | 0.001 | 3819 | 100.1 | TFT(Surr) |
| 15.383 | 0.001 | 7764 | 96.5 | BB(Surr) |

SW8021 (PID)

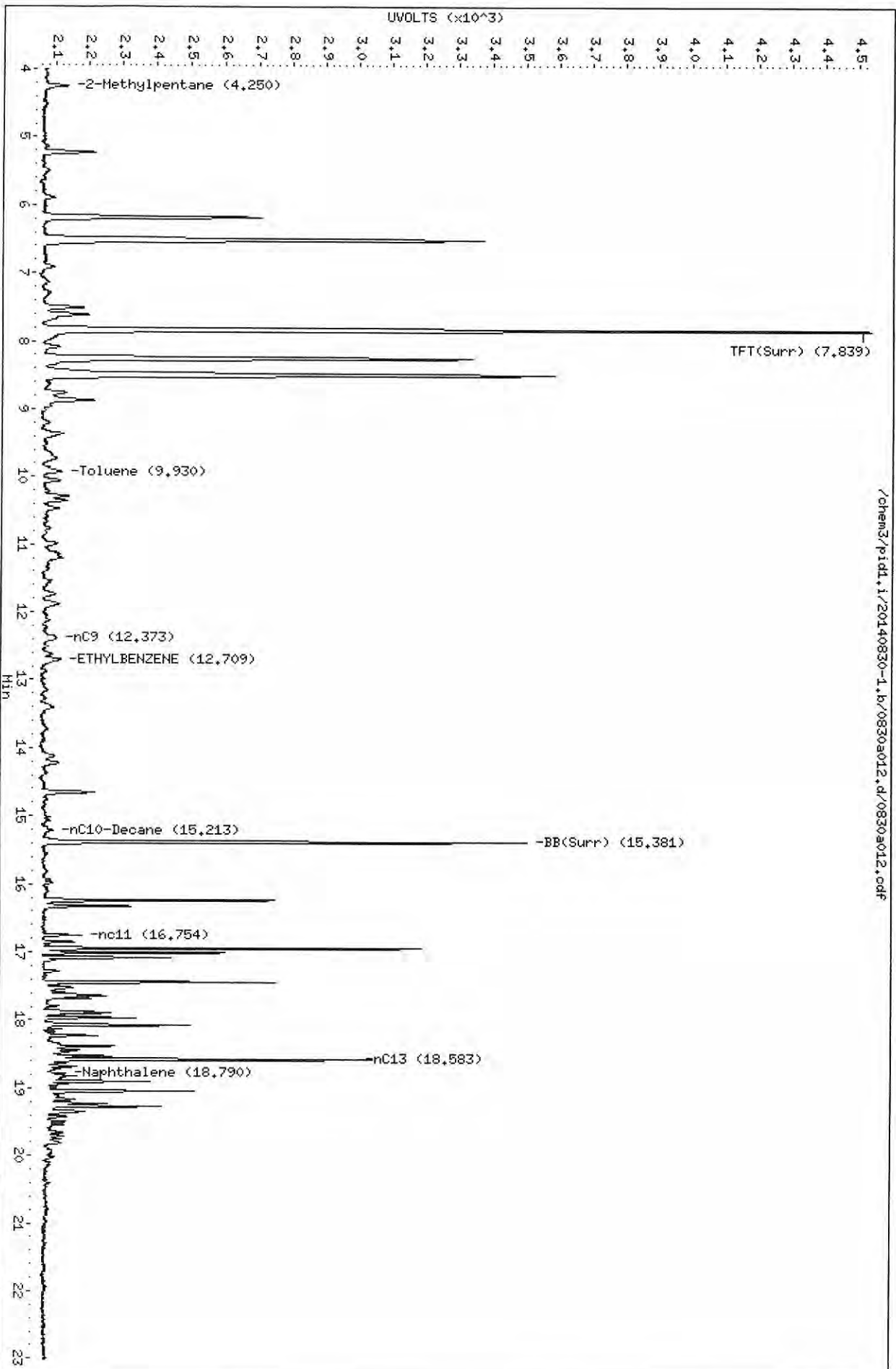
| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|--------------|
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140830-1.b/0830a012.d
Date: 30-AUG-2014 15:48
Client ID: HM-6
Sample Info: YK54D

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



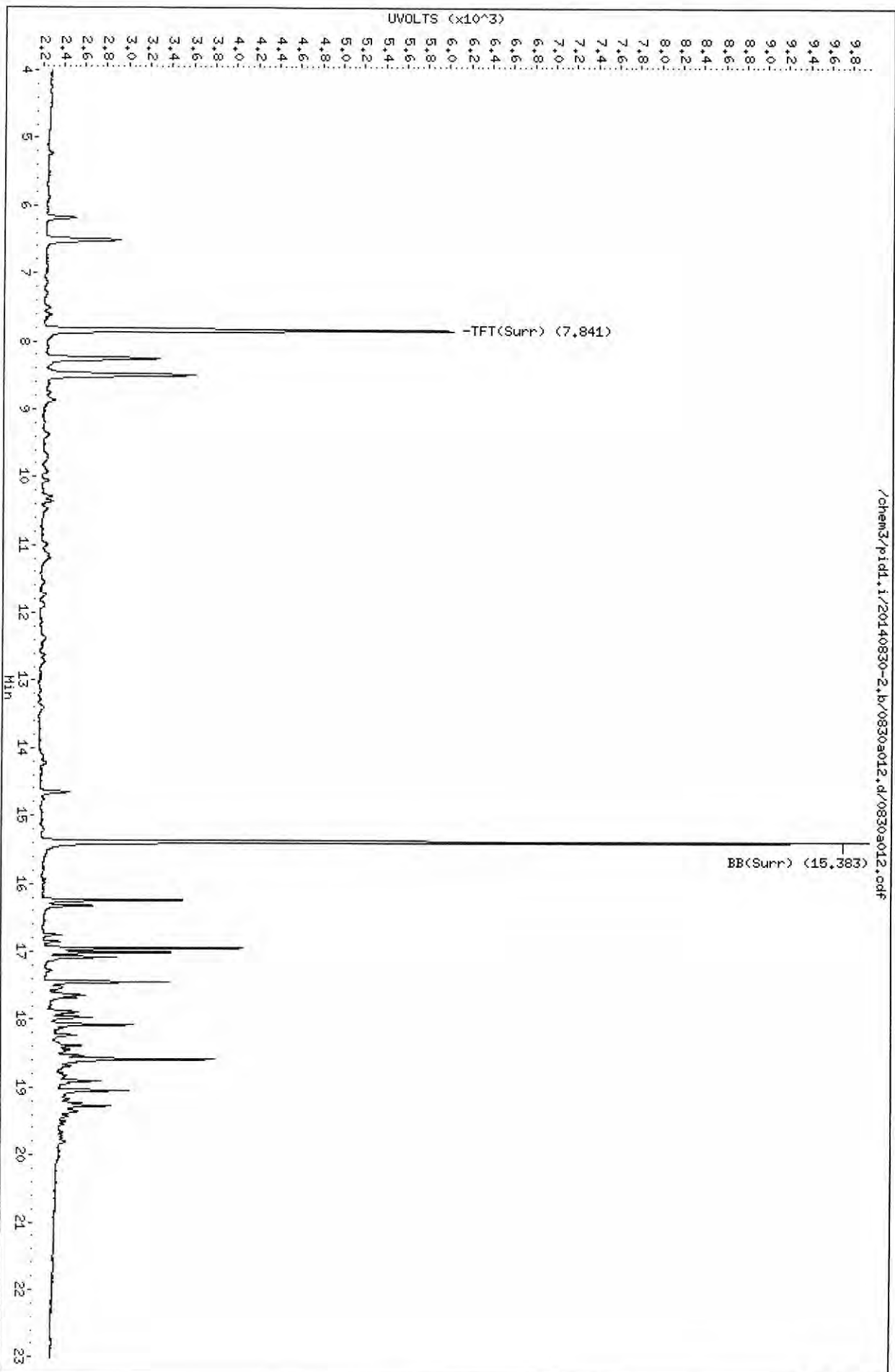
/chem3/pid1.i/20140830-1.b/0830a012.d/0830a012.cdf

7854.00047

Data File: /chem3/pid1.i/20140830-2.b/0830a012.d
Date: 30-AUG-2014 15:48
Client ID: MM-6
Sample Info: YX54D

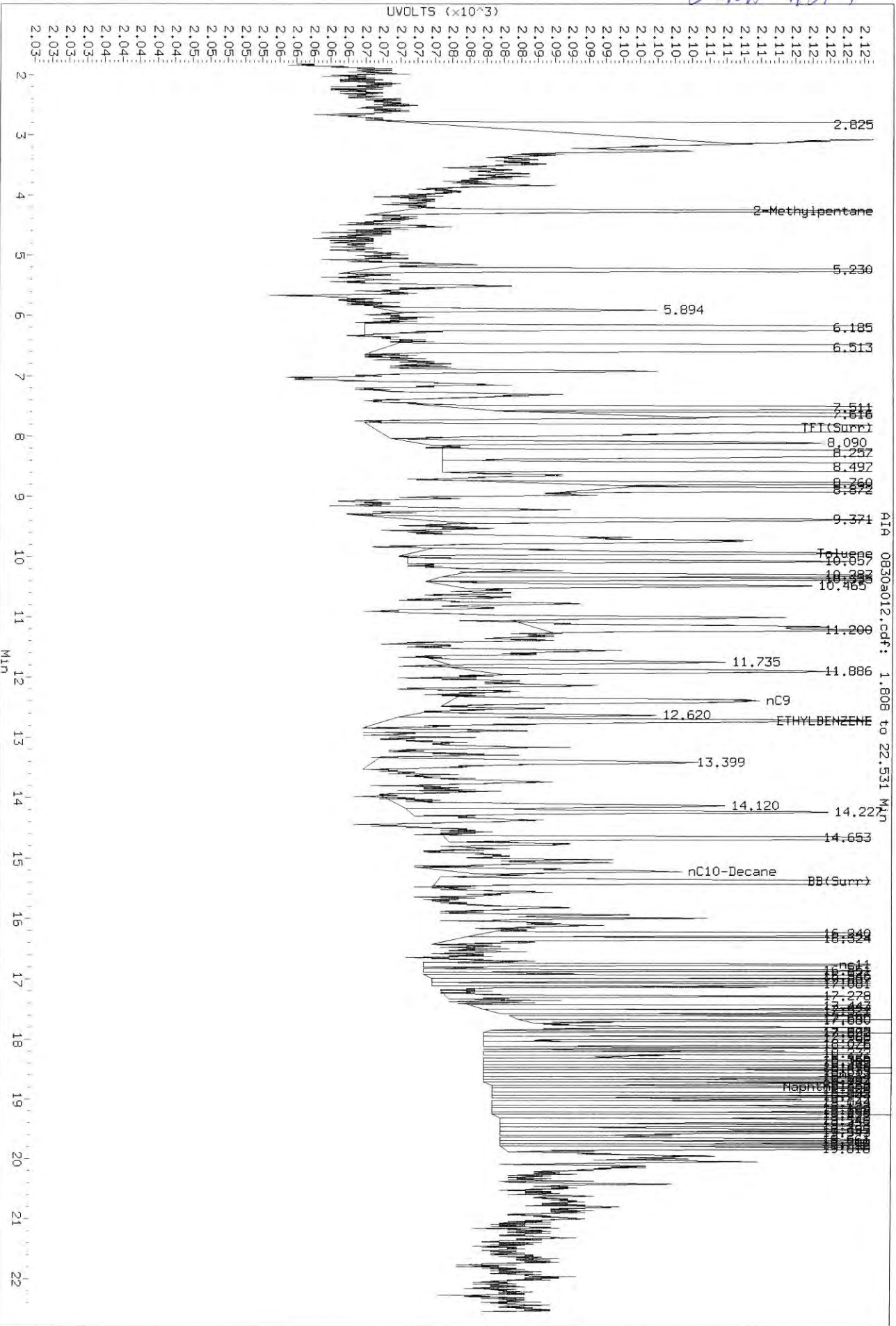
Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18

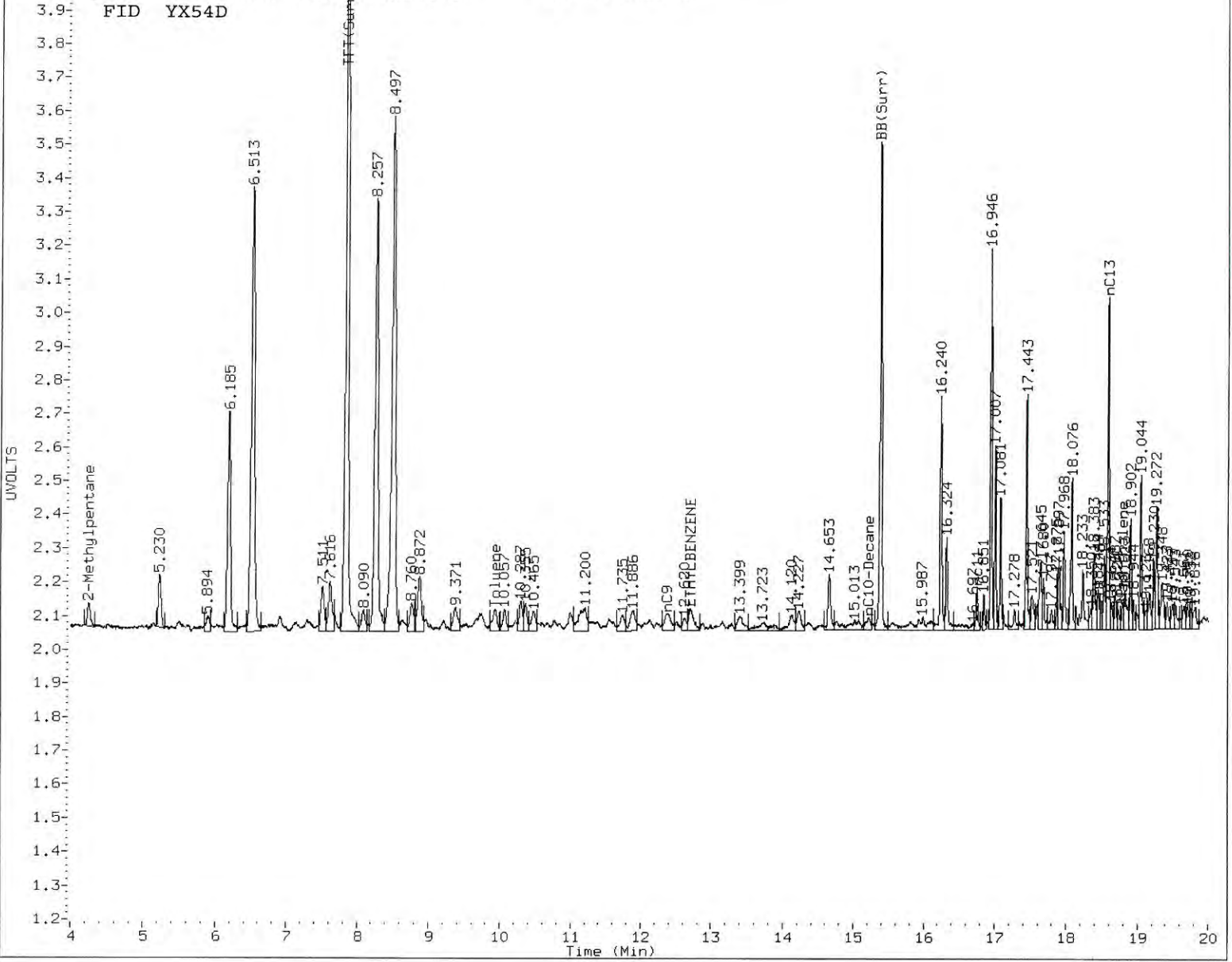


Data File: /chem3/pid1.1/20140830-1.b/0830a012.d/0830a012.cdf
Injection Date: 30-AUG-2014 15:48
Instrument: pid1.1
Client Sample ID: MW-6

08/31/14



YX54: 00045



MANUAL INTEGRATION

- ①. Baseline correction
- 2. Poor chromatography
- ③. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: Yuri

Date: 9/3/14

Ant 9/3/14

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/20140830-1.b/0830a007.d ARI ID: YX54E
Data file 2: /chem3/pid1.i/20140830-2.b/0830a007.d Client ID: TB
Method: /chem3/pid1.i/20140830-2.b/PIDB.m Injection Date: 30-AUG-2014 13:22
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 01-AUG-2014 Dilution Factor: 1.000
BETX Ical Date: 01-AUG-2014

FID Surrogates

| RT | Shift | Height | Area | %Rec | Compound |
|--------|-------|--------|-------|-------|-----------|
| 7.841 | 0.003 | 2447 | 31467 | 103.4 | TFT(Surr) |
| 15.382 | 0.002 | 1460 | 13310 | 100.8 | BB(Surr) |

PETROLEUM HYDROCARBONS (FID)

| Range | RF | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 (9.77 to 17.90) | 255374 | 0 | 0.000 |
| 8015C 2MP-TMB (4.16 to 16.20) | 464685 | 1 | 0.000 |
| AK101 nC6-nC10 (4.66 to 15.10) | 351052 | 1 | 0.000 |
| NWTPHG Tol-Nap (9.77 to 18.89) | 264430 | 0 | 0.000 |

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

| RT | Shift | Response | %Rec | Compound |
|--------|-------|----------|-------|-----------|
| 7.843 | 0.003 | 3866 | 101.3 | TFT(Surr) |
| 15.385 | 0.003 | 7855 | 97.6 | BB(Surr) |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound |
|----|-------|----------|--------|--------------|
| ND | --- | --- | --- | Benzene |
| ND | --- | --- | --- | Toluene |
| ND | --- | --- | --- | Ethylbenzene |
| ND | --- | --- | --- | M/P-Xylene |
| ND | --- | --- | --- | O-Xylene |
| ND | --- | --- | --- | MTBE |

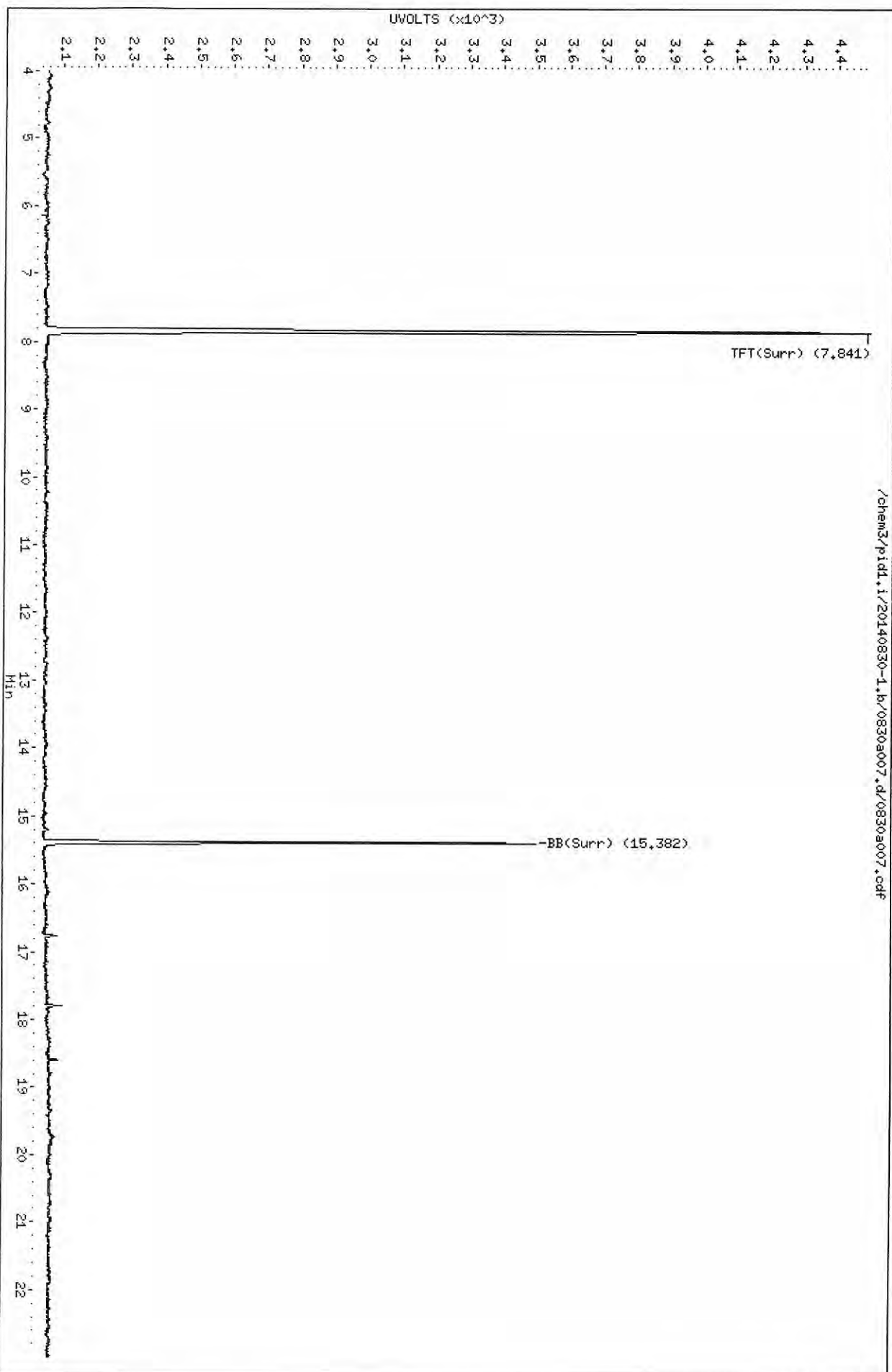
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak was manually integrated

Data File: /chem3/pid1.i/20140830-1.b/0830a007.d
Date : 30-AUG-2014 13:22
Client ID: TB
Sample Info: YX54E

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



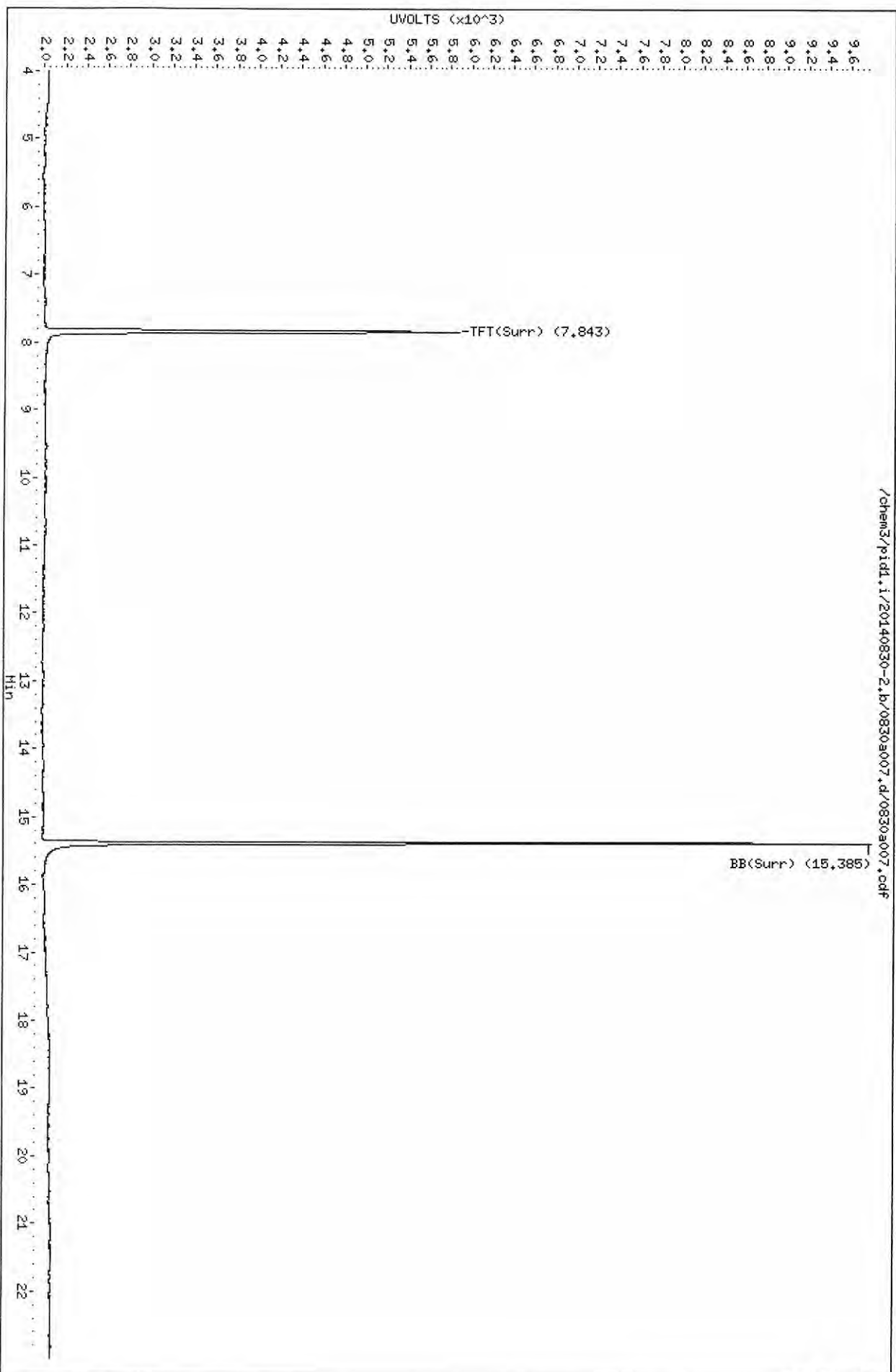
YX54.0830

Data File: /chem3/pid1.i/20140830-2.b/0830a007.d
Date: 30-AUG-2014 13:22
Client ID: TB
Sample Info: YX54E

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC
Column diameter: 0.18



SAMPLE RESULTS-CONVENTIONALS
YX54-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/28/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 08/21/14
Date Received: 08/22/14

Client ID: MW-14
ARI ID: 14-17328 YX54A

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 08/23/14 082314#1 | EPA 300.0 | mg-N/L | 0.1 | 0.2 |
| Sulfate | 08/23/14 082314#1 | EPA 300.0 | mg/L | 0.5 | 18.7 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YX54-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/28/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 08/21/14
Date Received: 08/22/14

Client ID: MW-4R
ARI ID: 14-17329 YX54B

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 08/23/14 082314#1 | EPA 300.0 | mg-N/L | 0.1 | 0.1 |
| Sulfate | 08/23/14 082314#1 | EPA 300.0 | mg/L | 0.5 | 11.0 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YX54-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 08/28/14

A handwritten signature in blue ink, appearing to be 'JK' or similar, written over the 'Data Release Authorized' line.

Project: Ken's Auto
Event: 7168-10
Date Sampled: 08/21/14
Date Received: 08/22/14


Client ID: MW-13
ARI ID: 14-17330 YX54C

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 08/23/14 082314#1 | EPA 300.0 | mg-N/L | 0.1 | 0.4 |
| Sulfate | 08/23/14 082314#1 | EPA 300.0 | mg/L | 0.1 | 3.7 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
YX54-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/28/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 08/21/14
Date Received: 08/22/14

Client ID: MW-6
ARI ID: 14-17331 YX54D

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| N-Nitrate | 08/23/14 082314#1 | EPA 300.0 | mg-N/L | 0.1 | < 0.1 U |
| Sulfate | 08/23/14 082314#1 | EPA 300.0 | mg/L | 0.1 | 1.4 |

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
YX54-Hart Crowser Inc.




Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/28/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | Blank | ID |
|-----------|-----------|----------|--------|---------|----|
| N-Nitrate | EPA 300.0 | 08/23/14 | mg-N/L | < 0.1 U | |
| Sulfate | EPA 300.0 | 08/23/14 | mg/L | < 0.1 U | |

STANDARD REFERENCE RESULTS-CONVENTIONALS
YX54-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/28/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|--------------------------|-----------|----------|--------|-----|------------|----------|
| N-Nitrate ERA #220912 | EPA 300.0 | 08/23/14 | mg-N/L | 3.3 | 3.0 | 110.0% |
| Sulfate ERA 131013 | EPA 300.0 | 08/23/14 | mg/L | 3.2 | 3.0 | 106.7% |

REPLICATE RESULTS-CONVENTIONALS
YX54-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 08/28/14


A handwritten signature in blue ink, appearing to be 'M' or 'N', located between the matrix information and the project details.

Project: Ken's Auto
Event: 7168-10
Date Sampled: 08/21/14
Date Received: 08/22/14

| Analyte | Method | Date | Units | Sample | Replicate(s) | RPD/RSD |
|-----------------------------------|-----------|----------|--------|--------|--------------|---------|
| ARI ID: YX54A Client ID: MW-14 | | | | | | |
| N-Nitrate | EPA 300.0 | 08/23/14 | mg-N/L | 0.2 | 0.2 | 0.0% |
| Sulfate | EPA 300.0 | 08/23/14 | mg/L | 18.7 | 18.9 | 1.1% |

MS/MSD RESULTS-CONVENTIONALS
YX54-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/28/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 08/21/14
Date Received: 08/22/14

| Analyte | Method | Date | Units | Sample | Spike | Spike Added | Recovery |
|-----------------------------------|-----------|----------|--------|--------|-------|-------------|----------|
| ARI ID: YX54A Client ID: MW-14 | | | | | | | |
| N-Nitrate | EPA 300.0 | 08/23/14 | mg-N/L | 0.2 | 2.3 | 2.0 | 105.0% |
| Sulfate | EPA 300.0 | 08/23/14 | mg/L | 18.7 | 37.7 | 20.0 | 95.0% |



Analytical Resources, Incorporated
Analytical Chemists and Consultants

December 5, 2014

Angie Goodwin
Hart Crowser, Inc.
1700 Westlake Avenue N. Suite 200
Seattle, WA 98109-3256

RE: Client Project: Ken's Auto, 7168-10
ARI Job No.: ZL80

Dear Angie:

Please find enclosed the original Chain-of-Custody record (COC), sample receipt documentation, and the final data for samples from the project referenced above. Analytical Resources, Inc. (ARI) received nine water samples and one trip blank on November 21, 2014. The samples were received in good condition with a cooler temperature of 4.9°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for Total Metals, NWTPH-Gx plus BTEX and Anions, as requested on the COC.

There were no anomalies associated with the analyses.

Sincerely,
ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Kelly Bottem".

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211
Enclosures

cc: eFile ZL80

Sample Custody Record

2180

Samples Shipped to: AP-1

JOB 7108-10 LAB NUMBER

PROJECT NAME Ken's Auto

HART CROWSER CONTACT A. Goodwin

SAMPLED BY:



HART CROWSER

Hart Crowser, Inc.
1700 Westlake Avenue North, Suite 200
Seattle, Washington 98109-6212
Office: 206.324.9530 • Fax 206.328.5581

| LAB NO. | | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | REQUESTED ANALYSIS | NO. OF CONTAINERS | OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS |
|-----------------|--|-----------|-------------|-------------|----------|------------------|--|-------------------|--|
| | | MW-5 | | 11/24/14 | 1300 | H ₂ O | | | |
| | | MW-14 | | 11/24/14 | 1430 | H ₂ O | | | |
| | | MW-KA | | | 500 | | | | |
| | | MW-4R | | | 1520 | | | | |
| | | MW-2 | | | 1630 | | | | |
| | | MW-3 | | | 1730 | | | | |
| | | MW-15 | | 11/21/14 | 0900 | | | | |
| | | MW-6 | | | 1000 | | | | |
| | | MW-13 | | | 1100 | | | | |
| RELINQUISHED BY | | DATE | | RECEIVED BY | DATE | | SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: | | |
| [Signature] | | 11/21/14 | TIME | [Signature] | 11/21/14 | TIME | TOTAL NUMBER OF CONTAINERS | | |
| [Signature] | | 1500 | 1500 | [Signature] | 1500 | 1500 | SAMPLE RECEIPT INFORMATION | | |
| [Signature] | | | | [Signature] | | | CUSTODY SEALS: | | |
| [Signature] | | | | [Signature] | | | CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | | |
| [Signature] | | | | [Signature] | | | GOOD CONDITION <input type="checkbox"/> YES <input type="checkbox"/> NO | | |
| [Signature] | | | | [Signature] | | | TEMPERATURE _____ | | |
| [Signature] | | | | [Signature] | | | SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT | | |
| [Signature] | | | | [Signature] | | | TURNAROUND TIME: | | |
| [Signature] | | | | [Signature] | | | <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK | | |
| [Signature] | | | | [Signature] | | | <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD | | |
| [Signature] | | | | [Signature] | | | <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER _____ | | |
| RELINQUISHED BY | | DATE | | RECEIVED BY | DATE | | COOLER NO.: | | |
| [Signature] | | | | [Signature] | | | STORAGE LOCATION: | | |
| [Signature] | | | | [Signature] | | | See Lab Work Order No. _____ | | |
| [Signature] | | | | [Signature] | | | for Other Contract Requirements | | |



Cooler Receipt Form

ARI Client: Hart/Crawser

Project Name: Ken's Auto

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: ZL80

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)

Were custody papers included with the cooler? (YES) NO

Were custody papers properly filled out (ink, signed, etc.) (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1500 4.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90877952

Cooler Accepted by: AV Date: 11/21/14 Time: 1500

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA (YES) NO

Were all bottles sealed in individual plastic bags? (YES) NO

Did all bottles arrive in good condition (unbroken)? (YES) NO

Were all bottle labels complete and legible? (YES) NO

Did the number of containers listed on COC match with the number of containers received? (YES) NO

Did all bottle labels and tags agree with custody papers? YES (NO)

Were all bottles used correct for the requested analyses? (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA (YES) NO

Were all VOC vials free of air bubbles? NA YES (NO)

Was sufficient amount of sample sent in each bottle? (YES) NO

Date VOC Trip Blank was made at ARI... NA 11/21/14

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 11/21/14 Time: 1615

**** Notify Project Manager of discrepancies or concerns ****

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
| <u>MW-4</u> | <u>MW-4R</u> | | |
| | | | |
| | | | |

Additional Notes, Discrepancies, & Resolutions:

MW-4R = 1Lg *one vial only, other is correct
MW-3 = 1Lg

By: AV Date: 11/21/14

| | | | |
|------------------------------------|------------------------------|--|--|
| <p>Small Air Bubbles - 2mm</p> | <p>Peabubbles 2-4 mm</p> | <p>LARGE Air Bubbles > 4 mm</p> | <p>Small → "sm" (< 2 mm)</p> <p>Peabubbles → "pb" (2 to < 4 mm)</p> <p>Large → "lg" (4 to < 6 mm)</p> <p>Headspace → "hs" (> 6 mm)</p> |
|------------------------------------|------------------------------|--|--|



PC: Kelly
VTSR: 11/21/14

Inquiry Number: NONE
Analysis Requested: 11/21/14
Contact: Goodwin, Angie
Client: Hart Crowser Inc.
Logged by: AV
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

Project #: 7168-10
Project: Ken's Auto
Sample Site:
SDG No:
Analytical Protocol: In-house

| LOGNUM ARI ID | CLIENT ID | CN >12 | WAD >12 | NH3 <2 | COD <2 | FOG <2 | MET <2 | PHEN <2 | PHOS <2 | TKN <2 | NO23 <2 | TOC <2 | S2 >9 | TPHD <2 | Fe2+ <2 | DMET DOC FLT FLT | PARAMETER | ADJUSTED TO | LOT NUMBER | AMOUNT ADDED | DATE/BY |
|-------------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|------------|-----------|------------|-----------|----------|------------|------------|---------------------|-----------|----------------|---------------|-----------------|---------|
| 14-25507 ZL80A | MW-5 | | | | | | TOT | | | | | | | | | | | | | | |
| 14-25508 ZL80B | MW-14 | | | | | | TOT | | | | | | | | | | | | | | |
| 14-25509 ZL80C | MW-KA | | | | | | TOT | | | | | | | | | | | | | | |
| 14-25510 ZL80D | MW-4R | | | | | | TOT | | | | | | | | | | | | | | |
| 14-25511 ZL80E | MW-2 | | | | | | TOT | | | | | | | | | | | | | | |
| 14-25512 ZL80F | MW-3 | | | | | | TOT | | | | | | | | | | | | | | |
| 14-25513 ZL80G | MW-15 | | | | | | TOT | | | | | | | | | | | | | | |
| 14-25514 ZL80H | MW-6 | | | | | | TOT | | | | | | | | | | | | | | |
| 14-25515 ZL80I | MW-13 | | | | | | TOT | | | | | | | | | | | | | | |

P = Pass

Checked By AV Date 11/21/14

Sample ID Cross Reference Report



ARI Job No: ZL80
Client: Hart Crowser Inc.
Project Event: 7168-10
Project Name: Ken's Auto

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|-----------------|------------|-------------|--------|------------------|----------------|
| 1. MW-5 | ZL80A | 14-25507 | Water | 11/20/14 13:00 | 11/21/14 15:00 |
| 2. MW-14 | ZL80B | 14-25508 | Water | 11/20/14 14:30 | 11/21/14 15:00 |
| 3. MW-KA | ZL80C | 14-25509 | Water | 11/20/14 15:00 | 11/21/14 15:00 |
| 4. MW-4R | ZL80D | 14-25510 | Water | 11/20/14 15:20 | 11/21/14 15:00 |
| 5. MW-2 | ZL80E | 14-25511 | Water | 11/20/14 16:30 | 11/21/14 15:00 |
| 6. MW-3 | ZL80F | 14-25512 | Water | 11/20/14 17:30 | 11/21/14 15:00 |
| 7. MW-15 | ZL80G | 14-25513 | Water | 11/21/14 09:00 | 11/21/14 15:00 |
| 8. MW-6 | ZL80H | 14-25514 | Water | 11/21/14 10:00 | 11/21/14 15:00 |
| 9. MW-13 | ZL80I | 14-25515 | Water | 11/21/14 11:00 | 11/21/14 15:00 |
| 10. TRIP BLANKS | ZL80J | 14-25516 | Water | 11/20/14 | 11/21/14 15:00 |

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: MW-5

SAMPLE

Lab Sample ID: ZL80A

LIMS ID: 14-25507

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: 11/20/14

Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.2 | |

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: MW-5

DUPLICATE

Lab Sample ID: ZL80A

LIMS ID: 14-25507

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: 11/20/14

Date Received: 11/21/14

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---------|-----------------|--------|-----------|-------|---------------|---|
| Lead | 200.8 | 0.2 | 0.3 | 40.0% | +/- 0.1 | L |

Reported in µg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-5

MATRIX SPIKE

Lab Sample ID: ZL80A


QC Report No: ZL80-Hart Crowser Inc.

LIMS ID: 14-25507

Project: Ken's Auto

Matrix: Water

7168-10

Data Release Authorized: 

Date Sampled: 11/20/14

Reported: 12/01/14

Date Received: 11/21/14

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---------|-----------------|--------|-------|-------------|------------|---|
| Lead | 200.8 | 0.2 | 24.2 | 25.0 | 96.0% | |

Reported in µg/L

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

NR-Not Recovered

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MW-14
SAMPLE

Lab Sample ID: ZL80B

LIMS ID: 14-25508

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: 11/20/14

Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 1.1 | |

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MW-KA
SAMPLE

Lab Sample ID: ZL80C

LIMS ID: 14-25509

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: 11/20/14

Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.8 | |


U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-4R
SAMPLE

Lab Sample ID: ZL80D
LIMS ID: 14-25510
Matrix: Water
Data Release Authorized: 
Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.
Project: Ken's Auto
7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.1 | |

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-2
SAMPLE

Lab Sample ID: ZL80E
LIMS ID: 14-25511
Matrix: Water
Data Release Authorized:
Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.
Project: Ken's Auto
7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: MW-3

SAMPLE

Lab Sample ID: ZL80F

LIMS ID: 14-25512

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: 11/20/14

Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.2 | |

U-Analyte undetected at given LOQ

LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

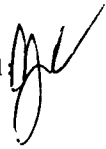
Page 1 of 1

**Sample ID: MW-15
SAMPLE**

Lab Sample ID: ZL80G

LIMS ID: 14-25513

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: 11/21/14

Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: MW-6

SAMPLE

Lab Sample ID: ZL80H

LIMS ID: 14-25514

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: 11/21/14

Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.3 | |

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MW-13
SAMPLE

Lab Sample ID: ZL80I

LIMS ID: 14-25515

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: 11/21/14

Date Received: 11/21/14

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Sample ID: METHOD BLANK

Page 1 of 1

Lab Sample ID: ZL80MB


QC Report No: ZL80-Hart Crowser Inc.

LIMS ID: 14-25515

Project: Ken's Auto

Matrix: Water

7168-10

Data Release Authorized: 

Date Sampled: NA

Reported: 12/01/14

Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | LOQ | µg/L | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|------|---|
| 200.8 | 11/25/14 | 200.8 | 11/28/14 | 7439-92-1 | Lead | 0.1 | 0.1 | U |

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: ZL80LCS

LIMS ID: 14-25515

Matrix: Water

Data Release Authorized: 

Reported: 12/01/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

7168-10

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|----------------|------------------------|--------------------|--------------------|-------------------|----------|
| Lead | 200.8 | 25.3 | 25.0 | 101% | |

Reported in µg/L

N-Control limit not met

Control Limits: 80-120%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

**Sample ID: MW-5
SAMPLE**

Lab Sample ID: ZL80A

LIMS ID: 14-25507

Matrix: Water

Data Release Authorized: *AB*

Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 11/20/14

Date Received: 11/21/14

Date Analyzed: 11/28/14 15:14

Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 98.7% |
| Bromobenzene | 92.4% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 103% |
| Bromobenzene | 95.9% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)


GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-14
SAMPLE

Lab Sample ID: ZL80B
 LIMS ID: 14-25508
 Matrix: Water
 Data Release Authorized: 
 Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-10
 Date Sampled: 11/20/14
 Date Received: 11/21/14

Date Analyzed: 11/28/14 15:42
 Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result |
|--------------------|---------------------|-------------|-------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | 0.75 |
| 179601-23-1 | m,p-Xylene | 0.50 | 0.57 |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

Gasoline Range Hydrocarbons **0.10** **0.34** **GAS ID**
GAS

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 104% |
| Bromobenzene | 102% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 109% |
| Bromobenzene | 103% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-KA
 SAMPLE

Lab Sample ID: ZL80C
 LIMS ID: 14-25509
 Matrix: Water
 Data Release Authorized: *MS*
 Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-10
 Date Sampled: 11/20/14
 Date Received: 11/21/14

Date Analyzed: 11/28/14 16:11
 Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result |
|--------------------|---------------------|-------------|-------------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | 0.78 |
| 179601-23-1 | m,p-Xylene | 0.50 | 0.54 |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

Gasoline Range Hydrocarbons 0.10 0.33 GAS ID
GAS

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 99.3% |
| Bromobenzene | 96.0% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 106% |
| Bromobenzene | 101% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-4R
SAMPLE

Lab Sample ID: ZL80D
 LIMS ID: 14-25510
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-10
 Date Sampled: 11/20/14
 Date Received: 11/21/14

Date Analyzed: 11/28/14 16:39
 Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 101% |
| Bromobenzene | 100% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 106% |
| Bromobenzene | 100% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-2
SAMPLE

Lab Sample ID: ZL80E
 LIMS ID: 14-25511
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-10
 Date Sampled: 11/20/14
 Date Received: 11/21/14

Date Analyzed: 11/28/14 18:04
 Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 99.7% |
| Bromobenzene | 96.6% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 106% |
| Bromobenzene | 100% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-3
SAMPLE

Lab Sample ID: ZL80F

LIMS ID: 14-25512

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 11/20/14

Date Received: 11/21/14

Date Analyzed: 11/28/14 18:32

Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 99.6% |
| Bromobenzene | 94.1% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 103% |
| Bromobenzene | 98.3% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG


Page 1 of 1

**Sample ID: MW-15
SAMPLE**

Lab Sample ID: ZL80G

LIMS ID: 14-25513

Matrix: Water

Data Release Authorized: 

Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 11/21/14

Date Received: 11/21/14

Date Analyzed: 11/28/14 19:00

Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | LOQ | Result | GAS ID |
|-----------------------------|------|----------|--------|
| Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 99.8% |
| Bromobenzene | 94.2% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 104% |
| Bromobenzene | 98.4% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW-6

SAMPLE

Lab Sample ID: ZL80H

LIMS ID: 14-25514

Matrix: Water

Data Release Authorized: 

Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 11/21/14

Date Received: 11/21/14

Date Analyzed: 11/28/14 19:28

Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result |
|-------------|--------------|------|----------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U |
| 108-88-3 | Toluene | 0.25 | < 0.25 U |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U |

| | | | |
|------------------------------------|-------------|-------------|-----------------------|
| Gasoline Range Hydrocarbons | 0.10 | 0.11 | GAS ID GRO |
|------------------------------------|-------------|-------------|-----------------------|

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 99.9% |
| Bromobenzene | 96.2% |

Gasoline Surrogate Recovery

| | |
|------------------|------|
| Trifluorotoluene | 104% |
| Bromobenzene | 100% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)


GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-13
SAMPLE

Lab Sample ID: ZL80I
 LIMS ID: 14-25515
 Matrix: Water
 Data Release Authorized: 
 Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-10
 Date Sampled: 11/21/14
 Date Received: 11/21/14

Date Analyzed: 11/28/14 19:56
 Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 97.9% |
| Bromobenzene | 93.5% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 103% |
| Bromobenzene | 97.9% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

**Sample ID: TRIP BLANKS
SAMPLE**

Lab Sample ID: ZL80J

LIMS ID: 14-25516

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: 11/20/14

Date Received: 11/21/14

Date Analyzed: 11/28/14 14:46

Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL

Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 98.1% |
| Bromobenzene | 94.2% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 104% |
| Bromobenzene | 98.1% |

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-112814
METHOD BLANK

Lab Sample ID: MB-112814
 LIMS ID: 14-25507
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.
 Project: Ken's Auto
 Event: 7168-10
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 11/28/14 12:23
 Instrument/Analyst: PID3/ML

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

| CAS Number | Analyte | LOQ | Result | GAS ID |
|-------------|-----------------------------|------|----------|--------|
| 71-43-2 | Benzene | 0.25 | < 0.25 U | |
| 108-88-3 | Toluene | 0.25 | < 0.25 U | |
| 100-41-4 | Ethylbenzene | 0.25 | < 0.25 U | |
| 179601-23-1 | m,p-Xylene | 0.50 | < 0.50 U | |
| 95-47-6 | o-Xylene | 0.25 | < 0.25 U | |
| | Gasoline Range Hydrocarbons | 0.10 | < 0.10 U | --- |

BETX Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 100% |
| Bromobenzene | 92.8% |

Gasoline Surrogate Recovery

| | |
|------------------|-------|
| Trifluorotoluene | 105% |
| Bromobenzene | 96.0% |

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: ZL80
Matrix: Water

QC Report No: ZL80-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-10

| <u>Client ID</u> | <u>TFT</u> | <u>BBZ</u> | <u>TOT OUT</u> |
|------------------|------------|------------|----------------|
| MB-112814 | 100% | 92.8% | 0 |
| LCS-112814 | 84.3% | 85.9% | 0 |
| LCSD-112814 | 99.5% | 91.8% | 0 |
| MW-5 | 98.7% | 92.4% | 0 |
| MW-14 | 104% | 102% | 0 |
| MW-KA | 99.3% | 96.0% | 0 |
| MW-4R | 101% | 100% | 0 |
| MW-2 | 99.7% | 96.6% | 0 |
| MW-3 | 99.6% | 94.1% | 0 |
| MW-15 | 99.8% | 94.2% | 0 |
| MW-6 | 99.9% | 96.2% | 0 |
| MW-13 | 97.9% | 93.5% | 0 |
| TRIP BLANKS | 98.1% | 94.2% | 0 |

| | | LCS/MB LIMITS | QC LIMITS |
|--------------------------|------------|----------------------|------------------|
| (TFT) = Trifluorotoluene | (5 mL PV) | (80-120) | (80-120) |
| (TFT) = Trifluorotoluene | (15 mL PV) | (79-120) | (80-120) |
| (BBZ) = Bromobenzene | (5 mL PV) | (80-120) | (77-120) |
| (BBZ) = Bromobenzene | (15 mL PV) | (79-120) | (80-120) |

Log Number Range: 14-25507 to 14-25516

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: ZL80
Matrix: Water

QC Report No: ZL80-Hart Crowser Inc.
Project: Ken's Auto
Event: 7168-10

| Client ID | TFT | BBZ | TOT OUT |
|------------------|------------|------------|----------------|
| MB-112814 | 105% | 96.0% | 0 |
| LCS-112814 | 88.8% | 88.2% | 0 |
| LCSD-112814 | 103% | 93.9% | 0 |
| MW-5 | 103% | 95.9% | 0 |
| MW-14 | 109% | 103% | 0 |
| MW-KA | 106% | 101% | 0 |
| MW-4R | 106% | 100% | 0 |
| MW-2 | 106% | 100% | 0 |
| MW-3 | 103% | 98.3% | 0 |
| MW-15 | 104% | 98.4% | 0 |
| MW-6 | 104% | 100% | 0 |
| MW-13 | 103% | 97.9% | 0 |
| TRIP BLANKS | 104% | 98.1% | 0 |

| | | |
|--------------------------|----------------------|------------------|
| | LCS/MB LIMITS | QC LIMITS |
| (TFT) = Trifluorotoluene | (80-120) | (80-120) |
| (BBZ) = Bromobenzene | (80-120) | (80-120) |

Log Number Range: 14-25507 to 14-25516

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-112814

LAB CONTROL SAMPLE

Lab Sample ID: LCS-112814

LIMS ID: 14-25507

Matrix: Water

Data Release Authorized: *A*

Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/28/14 09:31

LCSD: 11/28/14 11:55

Instrument/Analyst LCS: PID3/ML

LCSD: PID3/ML

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------------|------|-----------------|--------------|------|------------------|---------------|------|
| Benzene | 6.92 | 7.00 | 98.9% | 6.85 | 7.00 | 97.9% | 1.0% |
| Toluene | 49.8 | 49.4 | 101% | 48.2 | 49.4 | 97.6% | 3.3% |
| Ethylbenzene | 11.8 | 12.3 | 95.9% | 11.3 | 12.3 | 91.9% | 4.3% |
| m,p-Xylene | 38.5 | 40.0 | 96.2% | 37.4 | 40.0 | 93.5% | 2.9% |
| o-Xylene | 14.6 | 15.3 | 95.4% | 14.1 | 15.3 | 92.2% | 3.5% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 84.3% | 99.5% |
| Bromobenzene | 85.9% | 91.8% |

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: LCS-112814

LAB CONTROL SAMPLE

Lab Sample ID: LCS-112814

LIMS ID: 14-25507

Matrix: Water

Data Release Authorized: 

Reported: 12/04/14

QC Report No: ZL80-Hart Crowser Inc.

Project: Ken's Auto

Event: 7168-10

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/28/14 09:31

LCSD: 11/28/14 11:55

Instrument/Analyst LCS: PID3/ML

LCSD: PID3/ML

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

| Analyte | LCS | Spike | | LCS | LCSD | Spike | | RPD |
|-----------------------------|------|-----------|----------|------|------|------------|----------|-----|
| | | Added-LCS | Recovery | | | Added-LCSD | Recovery | |
| Gasoline Range Hydrocarbons | 0.97 | 1.00 | 97.0% | 0.93 | 1.00 | 93.0% | 4.2% | |

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 88.8% | 103% |
| Bromobenzene | 88.2% | 93.9% |

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 11/26/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14

Client ID: MW-5
ARI ID: 14-25507 ZL80A

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | 1.0 |
| Sulfate | 11/24/14 112414#1 | EPA 300.0 | mg/L | 0.5 | 10.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 11/26/14

A handwritten signature in black ink, appearing to be 'M. A.', written over the 'Data Release Authorized' text.

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14

Client ID: MW-14
ARI ID: 14-25508 ZL80B

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | 4.6 |
| Sulfate | 11/24/14 112414#1 | EPA 300.0 | mg/L | 0.5 | 12.7 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized:
Reported: 11/26/14

A handwritten signature in black ink, appearing to be 'Ji'.

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14

Client ID: MW-KA
ARI ID: 14-25509 ZL80C

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | 1.5 |
| Sulfate | 11/24/14 112414#1 | EPA 300.0 | mg/L | 0.5 | 11.3 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 11/26/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14


Client ID: MW-4R
ARI ID: 14-25510 ZL80D

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | 0.4 |
| Sulfate | 11/24/14 112414#1 | EPA 300.0 | mg/L | 0.5 | 12.2 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 11/26/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14

Client ID: MW-2
ARI ID: 14-25511 ZL80E

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | 0.2 |
| Sulfate | 11/21/14 112114#1 | EPA 300.0 | mg/L | 0.1 | 4.2 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 11/26/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14


Client ID: MW-3
ARI ID: 14-25512 ZL80F

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | 0.3 |
| Sulfate | 11/21/14 112114#1 | EPA 300.0 | mg/L | 0.1 | 4.2 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 11/26/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/21/14
Date Received: 11/21/14

Client ID: MW-15
ARI ID: 14-25513 ZL80G

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | 0.1 |
| Sulfate | 11/21/14 112114#1 | EPA 300.0 | mg/L | 0.1 | 3.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 11/26/14

A handwritten signature in black ink, appearing to be 'JK' or similar, written over the 'Data Release Authorized' text.

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/21/14
Date Received: 11/21/14

Client ID: MW-6
ARI ID: 14-25514 ZL80H

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|---------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | < 0.1 U |
| Sulfate | 11/21/14 112114#1 | EPA 300.0 | mg/L | 0.1 | 2.0 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 11/26/14

A handwritten signature in black ink, appearing to be 'JK' or similar, written over the 'Data Release Authorized' text.

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/21/14
Date Received: 11/21/14

Client ID: MW-13
ARI ID: 14-25515 ZL80I

| Analyte | Date Batch | Method | Units | RL | Sample |
|-----------|----------------------|-----------|--------|-----|--------|
| N-Nitrate | 11/21/14 112114#1 | EPA 300.0 | mg-N/L | 0.1 | 0.4 |
| Sulfate | 11/21/14 112114#1 | EPA 300.0 | mg/L | 0.1 | 4.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 11/26/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | Blank | ID |
|-----------|-----------|----------------------|--------|--------------------|----|
| N-Nitrate | EPA 300.0 | 11/21/14 | mg-N/L | < 0.1 U | |
| Sulfate | EPA 300.0 | 11/21/14 11/24/14 | mg/L | < 0.1 U < 0.1 U | |

STANDARD REFERENCE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized *AS*
Reported: 11/26/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|--------------------------|-----------|----------------------|--------|------------|------------|----------------|
| N-Nitrate ERA #320614 | EPA 300.0 | 11/21/14 | mg-N/L | 2.8 | 3.0 | 93.3% |
| Sulfate ERA 131013 | EPA 300.0 | 11/21/14 11/24/14 | mg/L | 2.9 2.9 | 3.0 3.0 | 96.7% 96.7% |

REPLICATE RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized
Reported: 11/26/14


A handwritten signature in black ink, appearing to be 'J. J.', written over the 'Data Release Authorized' text.

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14

| Analyte | Method | Date | Units | Sample | Replicate(s) | RPD/RSD |
|---------------|-----------------|----------|--------|--------|--------------|---------|
| ARI ID: ZL80A | Client ID: MW-5 | | | | | |
| N-Nitrate | EPA 300.0 | 11/21/14 | mg-N/L | 1.0 | 1.0 | 0.0% |
| Sulfate | EPA 300.0 | 11/24/14 | mg/L | 10.6 | 10.6 | 0.0% |

MS/MSD RESULTS-CONVENTIONALS
ZL80-Hart Crowser Inc.



Matrix: Water
Data Release Authorized: 
Reported: 11/26/14

Project: Ken's Auto
Event: 7168-10
Date Sampled: 11/20/14
Date Received: 11/21/14

| Analyte | Method | Date | Units | Sample | Spike | Spike Added | Recovery |
|-------------------------------|-----------|----------|--------|--------|-------|-------------|----------|
| ARI ID: ZL80A Client ID: MW-5 | | | | | | | |
| N-Nitrate | EPA 300.0 | 11/21/14 | mg-N/L | 1.0 | 3.0 | 2.0 | 100.0% |
| Sulfate | EPA 300.0 | 11/24/14 | mg/L | 10.6 | 29.4 | 20.0 | 94.0% |