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TRANSMITTAL

DATE: June 16, 2014

REFERENCE NO.: 065003

PROJECT NAME: Former Texaco Service Station - Chevron Site 211079

TO: Mr. Robert Burgess
Alaska Department of Environmental Conservation
610 University Avenue
Fairbanks, Alaska 99709

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QUANTITY	DESCRIPTION
1	Annual 2014 Groundwater Monitoring and Sampling Report

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COMMENTS:
Should you have any questions regarding the content of this document, please call the CRA project manager Siobhan Pritchard at (720) 974-0963.

Copy to: Mr. Tom Bauhs, Chevron EMC *(electronic copy)*
Mr. Paul Harrell (1465 Lacey Street Fairbanks, AK 99701

Completed by: Siobhan Pritchard Signed:

Filing: **Correspondence File**

First Semi-Annual 2014 Groundwater Monitoring Report

Chevron Site 211079
1501 South Cushman Street
Fairbanks, Alaska
ADEC File ID 102.26.015

Prepared For:
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JUNE 16, 2014
REF. NO. 065003 (14)

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List of Acronyms and Abbreviations

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
AS	air sparge
BTEX	benzene, toluene, ethyl benzene, and xylenes
COPCs	contaminants of potential concern
CRA	Conestoga-Rovers & Associates
CSM	conceptual site model
DRO	diesel range organics
fbg	feet below grade
GRO	gasoline range organics
P.G.	Professional Geologist
ppmv	parts per million by volume
Ref. No.	reference number
SVE	soil vapor extraction
VOC	volatile organic compound
UST	underground storage tank

Section 1.0 Introduction

Conestoga-Rovers & Associates (CRA) is submitting this *First Semi-Annual 2014 Groundwater Monitoring and Sampling Report* to the Alaska Department of Environmental Conservation (ADEC) on behalf of Chevron Environmental Management Company (Chevron) for Chevron Site 211079. Groundwater monitoring and sampling was performed by CRA in accordance with the ADEC's May 2010 *Draft Field Guidance*. Reporting was performed by CRA in accordance with ADEC's September 2009 *Site Characterization Work Plan and Reporting Guidance for Investigation of Contaminated Sites.*

Project objectives are to monitor current groundwater conditions to determine if attenuation is occurring.

1.1 Site Description and Background

The site is located at 1501 South Cushman Street in Fairbanks, Alaska (Figure 1). The property's legal description is UMB01 BLK3 Gateway. The latitude and longitude are 64.833988° north and 147.716887° west. The site is a former Texaco service station currently occupied by the Friendship Korean Baptist Church. The station operated from 1963 to 1986. Station facilities included six underground storage tanks (USTs), dispenser islands, associated product piping, a station building and a car wash. The USTs were removed in 1988 in 1993. An air sparge/soil vapor extraction (AS/SVE) system operated onsite from 1993 until 2000. CRA decommissioned the AS/SVE remediation system on July 29, 2013.

Land use surrounding the site is primarily commercial and residential. Currently, the site is occupied by a Korean Baptist Church. Businesses are located south of the site and west across South Cushman Street. Residences border the site on the north and east.

Six groundwater monitoring wells are present onsite. One groundwater monitoring well and two soil vapor probes are located offsite. Both onsite and offsite groundwater monitoring wells are monitored and sampled semi-annually (Figure 2). Site photos are included Appendix A.

1.2 Hydrogeology

The site is located in central Alaska approximately 0.5 miles southwest of the Chena River in the Tanana River Valley. Historical static groundwater depths have ranged between 9.8 to 17.12 feet below grade (fbg) according to groundwater data from 1995 to present. Static groundwater depths ranged from 13.46 (MW-4) to 14.95 fbg (MW-1) on January 29, 2014. Groundwater flow was to the north with a gradient of 0.005, which is consistent with historical data (Figure 2).

1.3 Conceptual Site Model

CRA submitted a conceptual site model (CSM) to the ADEC on June 21, 2011. The CSM includes information on sources, affected media and exposure pathways. CRA prepared this CSM in accordance with ADEC's *Draft Guidance on Developing Conceptual Site Models*. Potentially complete pathways include incidental soil ingestion, ingestion of groundwater, and inhalation of outdoor air. Current groundwater conditions are consistent with historical data.

1.4 Contaminants of Potential Concern - Cleanup Levels

Site contaminants of potential concern (COPCs) are diesel range organics (DRO), gasoline range organics (GRO), and benzene. ADEC Table C Groundwater Cleanup Levels (Title 18 Alaska Administrative Code (ACC) 75.345) and ADEC Method Two Soil Cleanup Levels, Tables B1 and B2, under 40-inch zone, migration to groundwater (Title 18 AAC 75.341) are the default site cleanup levels for groundwater and soil.

Section 2.0 Groundwater Monitoring and Sampling

CRA gauged groundwater and sampled monitoring wells MW-1, MW-2, MW-4, MW-5, MW-9 and MW-10on January 29, 2014. Each well cap was removed to allow groundwater levels to stabilize and equilibrate prior to gauging. CRA deployed HydraSleeves in monitoring wells MW-1, MW-2, MW-4, MW-5, MW-9, and MW-10 on January 28, 2014. HydraSleeves were set approximately 36 inches below groundwater. Non-volatile no-purge samples were collected using Teflon bailers. a Groundwater samples, including one duplicate sample, were collected using clean disposable tubing and decanted into clean containers supplied by the analytical laboratory. Groundwater samples were submitted under chain-of-custody to Pace Analytical Laboratories of Minnesota. CRA monitoring data package is presented as Appendix B. CRA's standard operating procedures for low flow sampling are presented as Appendix C.

2.1 Purged Groundwater Disposal

Groundwater not used for sampling was filtered through granular activated carbon and purged to the ground surface behind the church building to ensure no offsite runoff.

Section 3.0 Results and Findings

3.1 Groundwater Analytical Methods

Collected groundwater samples were analyzed for one or more of the following:

- DRO by Alaska Method AK102
- GRO by Alaska Method AK101
- Benzene, toluene, ethyl benzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260
- Methane by EPA Method 8015
- Alkalinity by EPA Method 2320B
- Sulfate by EPA Method 300
- Nitrate as Nitrogen by EPA Method 300
- Ferrous Iron by field test kit HOCH DR 890 color meter

3.2 Groundwater Sampling Results

No DRO, GRO or benzene was detected above ADEC Table C Groundwater Cleanup Levels in samples MW-1, MW-2, MW-4 or MW-10. The highest DRO and GRO detected were 4.0 milligrams per liter (mg/L) (MW-5) and 4.2 mg/L (MW-9), respectively. Sample MW-2 contained the highest benzene (0.00063 mg/L). Hydrocarbon concentrations have decreased since initial monitoring in 1994. Current groundwater analytical data is presented in Table 1. Historical groundwater analytical data is presented in Table 2. Petroleum hydrocarbon concentrations are presented on Figure 3.

Monitored natural attenuation (MNA) parameters in source area wells (MW-2 and MW-5) indicate that natural attenuation is continuing to enhance remediation. Data for the site has only been collected for three years and therefore is difficult to evaluate based on limited data. Field Sulfate levels in source area wells are lower than those outside of the source area, indicating that sulfate is utilized for MNA. Sulfate was lower in well MW-9 during the January sampling indicating an increase in biodegradation during the winter. Methane levels decreased during the frozen ground sampling indicating a reduction in methanogenic chemistry during the winter. Alkalinity is trending downward; however levels in the source area equivalent to background, indicating potential stabilization. Ferrous iron in the source area was higher during the first semiannual sampling event indicating an increase in anaerobic conditions during the winter. MNA parameters from samples outside the source area indicate attenuation has stabilized. MNA parameters are presented in Table 2. The laboratory analytical report is

presented as Appendix D. Petroleum hydrocarbon concentration graphs are presented in Appendix E.

3.3 Data Quality

Based on the QA/QC review, the data submitted were judged to be acceptable for use with the qualifications noted. The ADEC Laboratory Data Review Checklist and Memorandum are presented as Appendix F.

Section 4.0 Conclusions

Groundwater samples contained DRO and GRO above ADEC Table C Groundwater Cleanup Levels in monitoring wells MW-5 and MW-9 during the first semi-annual 2014 sampling event. CRA will continue to conduct semi-annual groundwater monitoring and sampling in 2014.

Figures

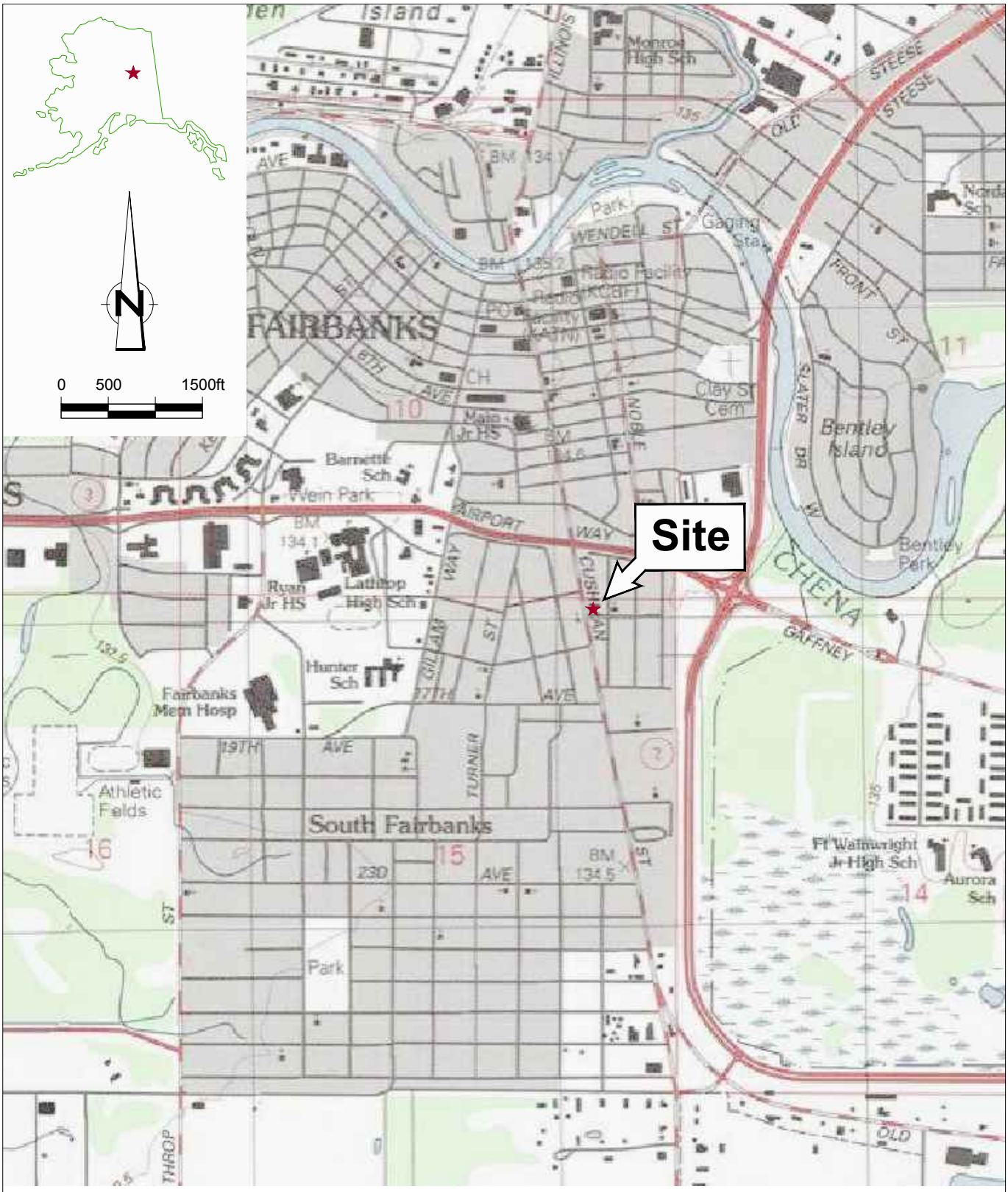
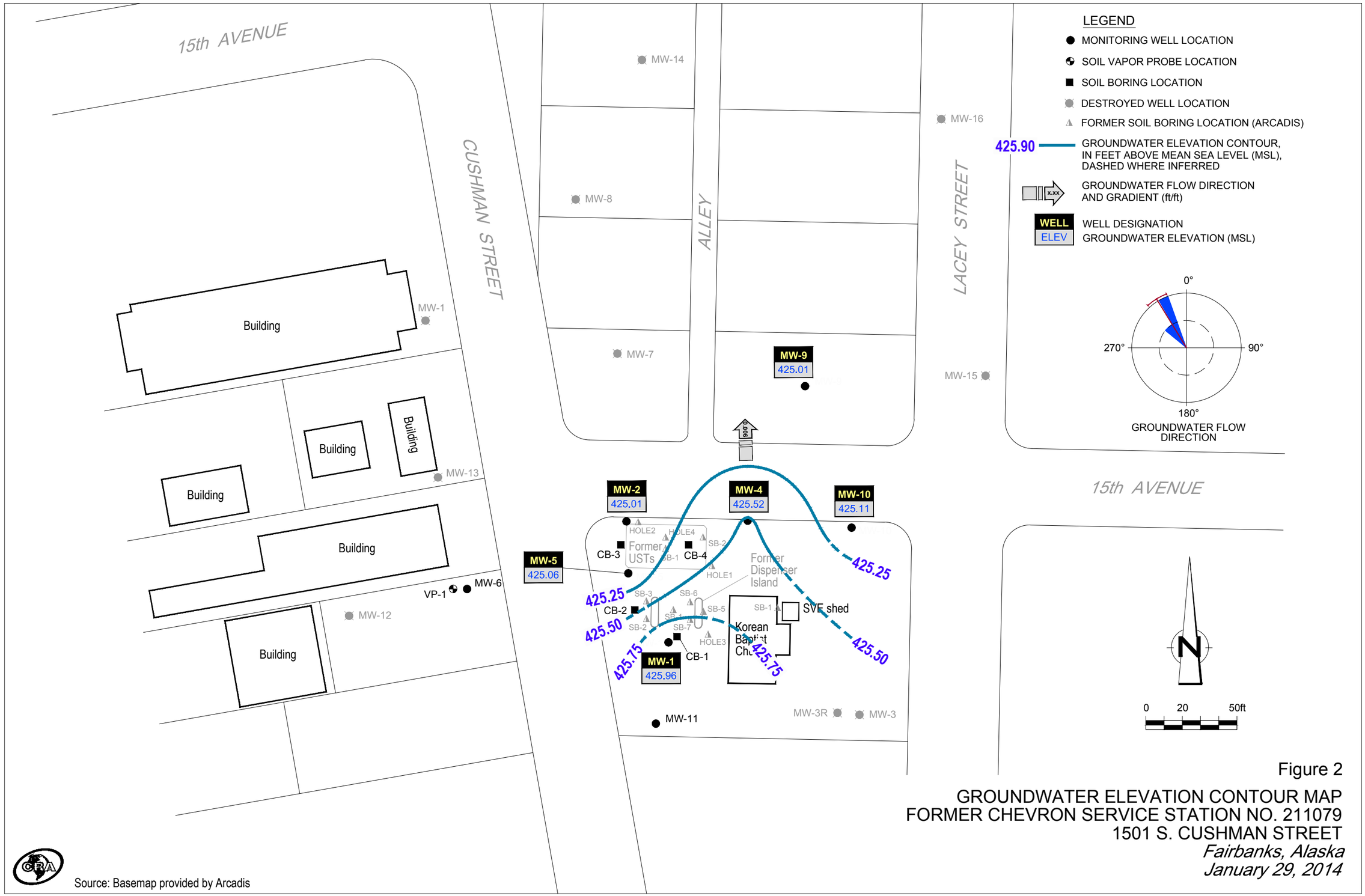


Figure 1

VICINITY MAP
FORMER CHEVRON STATION 211079
1501 CUSHMAN STREET
Fairbanks, Alaska

065003-95(014)GN-EM001 APR 23/2014



Source: Basemap provided by Arcadis

Figure 2

GROUNDWATER ELEVATION CONTOUR MAP
FORMER CHEVRON SERVICE STATION NO. 211079
1501 S. CUSHMAN STREET
Fairbanks, Alaska
January 29, 2014

065003-95(014)GN-EM002 MAY 30/2014

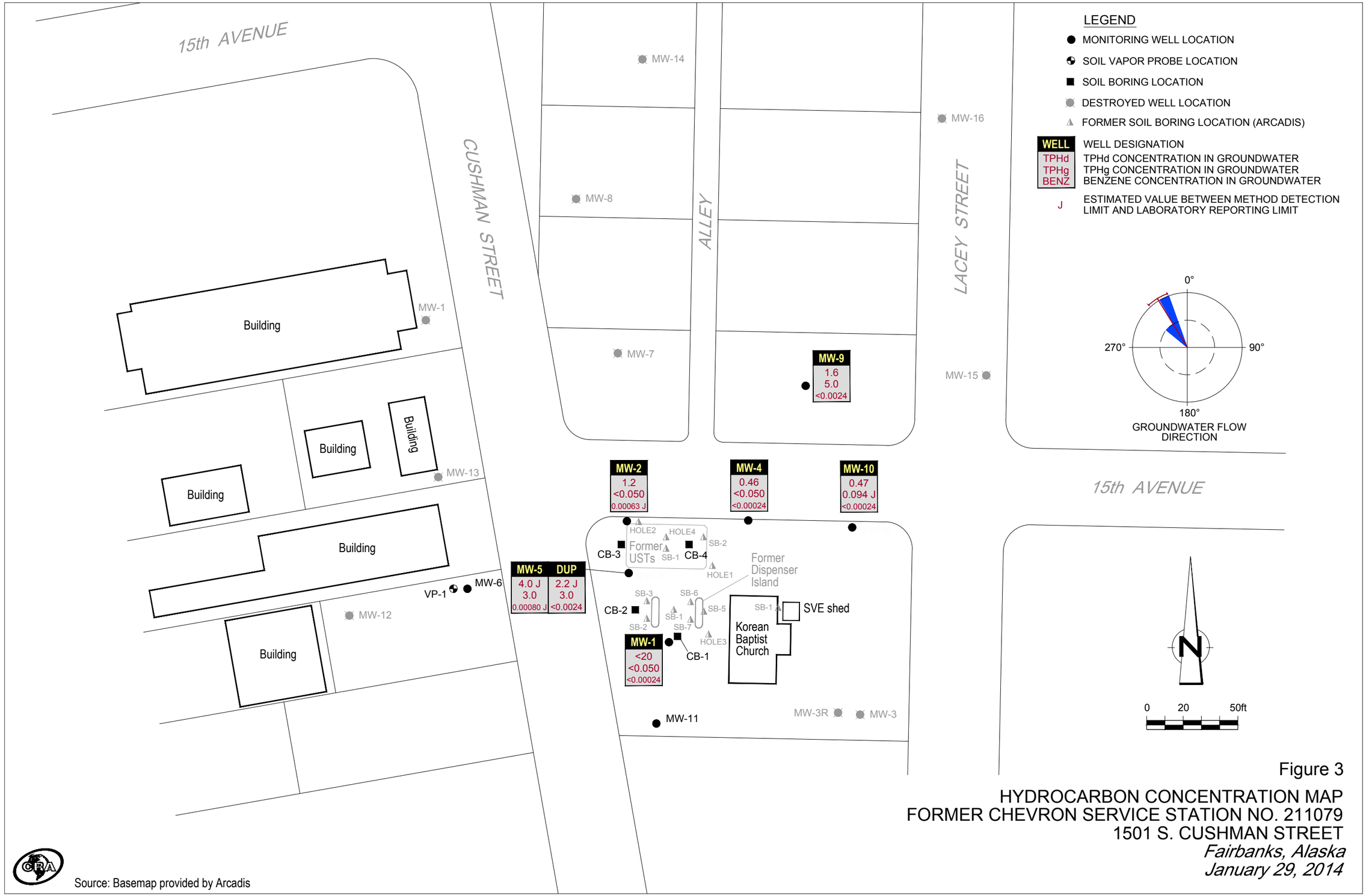


Figure 3

HYDROCARBON CONCENTRATION MAP
FORMER CHEVRON SERVICE STATION NO. 211079
1501 S. CUSHMAN STREET
Fairbanks, Alaska
January 29, 2014

Source: Basemap provided by Arcadis

065003-95(014)GN-EM003 MAY 30/2014

Tables

TABLE 1

GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*			
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					***1.5***	***2.2***	***1.1***	***0.005***	***1.0***	***0.7***	***10.0***
MW-1	01/29/2014	440.91	14.95	425.96	<0.20	<0.050	-	<0.00024	<0.00023	<0.00024	<0.00072
MW-2	01/29/2014	439.39	14.38	425.01	1.2	<0.050	-	0.00063 J	<0.00023	<0.00024	0.0038
MW-4	01/29/2014	438.98	13.46	425.52	0.46	<0.050	-	<0.00024	<0.00023	<0.00024	<0.00072
MW-5	01/29/2014	439.82	14.76	425.06	**4.0 J / 2.2 J**	**3.0 / 3.0**	-	0.00080 J / <0.0024	0.00036 J / <0.0023	0.0012 / <0.0024	0.0055 / <0.0072
MW-9	01/29/2014	438.75	13.74	425.01	**1.6**	**5.0**	-	<0.0024	0.0047 J	0.14	0.59
MW-10	01/29/2014	439.19	14.08	425.11	0.47	0.094 J	-	<0.00024	<0.00023	0.0065	<0.00072
Trip Blank	01/29/2014	-	-	-	-	<0.050	-	<0.00024	<0.00023	<0.00024	<0.00072

Notes and Abbreviations

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater Elevation

DRO = Diesel Range Organics by Alaska Series Method AK102

GRO = Gasoline Range Organics by Alaska Series Method AK101

Benzene, Toluene, Ethylbenzene, and Total Xylenes by Environmental Protection Agency (EPA) Method 8021B or 8260B

Total Xylenes = Sum of m-, o-, and p-xylenes

ADEC = Alaska Department of Environmental Conservation

[a] = Levels established in ADEC Table C Groundwater Cleanup Levels (18 AAC 75.345), there is no established criteria for Sulfolane

BOLD = Indicates concentration above the ADEC Table C Groundwater Cleanup Level

NA = Not Applicable

ft msl = Feet Above Mean Sea Level

fbg = Feet Below Grade

mg/L = Milligrams per Liter

ND = Not detected above laboratory method detection limits

TABLE 1

GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*			
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*

J = Estimated Value

- = Not Measured/Not Analyzed

* = Sample date defaulted to first date listed in historical data table

<x = Constituent not detected above x milligrams per liter

x / y = Sample Results / Blind Duplicate Results

** = Sample date accurate to month and year only

Groundwater data from 1992 through 2007 provided by Gettler-Ryan, Inc.

TABLE 2

MONITORED NATURAL ATTENUATION PARAMETERS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

		MNA PARAMETERS								
Location	*Date*	*Total Alkalinity*	*Alkalinity, phenolphthalein*	*Sulfate*	*Nitrate as Nitrogen*	*Methane*	*Nitrite (as N)*	*Nitrate by Field Measurement*	*Ferrous Iron by Field Measurement*	*Ferrous Iron*
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]										
MW-1	01/29/2014	234	-	17.3	1.0 J	0.0042 J	<0.050	3.3	0.20	0.13 J
MW-2	01/29/2014	468	-	85.0	0.87 J	0.013	<0.050 J	12.5	0.33	0.086 J
MW-4	01/29/2014	256	-	29.5	1.8 J	<0.0033	<0.050 J	5.0	0.05	<0.018 J
MW-5	01/29/2014	250 / 243	-	9.6 / 8.9	<0.050 J / 0.052 J	0.026 / 0.024	<0.050 J / <0.050 J	1.9 / 1.9	1.94 / -	40.6 J / 53.0 J
MW-9	01/29/2014	256	-	<1.2	<0.050 J	0.079	<0.050	0.0	0.52	34.0 J
MW-10	01/29/2014	292	-	53.5	0.16 J	0.039	<0.050	0.0	0.25	3.7 J

Notes and Abbreviations

mg/L = Milligrams per Liter

- = Not Measured/Not Analyzed

<x = Constituent not detected above x milligrams per liter

x / y = Sample Results / Blind Duplicate Results

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-1	06/20/1994	440.92	15.25	425.67	-	**49**	-	**0.75**	**11**	**1.8**	10	-	-	-
MW-1	09/27/1994	440.92	14.83	426.09	-	**52**	-	**0.81**	**11.7**	**2.7**	**13.4**	-	-	-
MW-1	11/21/1994	440.92	15.48	425.44	-	**51**	-	**1.1**	**13**	**3.1**	**14**	-	-	-
MW-1	03/29/1995	440.92	16.13	424.79	-	**49**	-	**0.54**	**14**	**2.4**	10	-	-	-
MW-1	06/29/1995	440.94	14.45	426.49	**1.8**	**58**	-	**0.38**	**14**	**2.6**	**13**	-	-	-
MW-1	09/18/1995	440.94	13.12	427.82	-	**24**	-	**0.055**	**3.7**	**1.3**	6.9	-	-	-
MW-1	12/13/1995	440.94	15.00	425.94	0.39	**42**	-	**0.29**	**4**	**16**	7.7	-	-	-
MW-1	03/08/1996	440.94	16.10	424.84	1.1	**110**	-	**0.62**	**26**	**3.2**	**16**	-	-	-
MW-1	05/31/1996	440.94	15.13	425.81	-	**91.5**	-	**0.394**	**20.1**	**2.37**	**13.9**	-	-	-
MW-1	09/19/1996	440.94	15.18	425.76	-	**59.4**	-	**0.135**	**9.7**	**1.7**	**10.3**	-	-	-
MW-1	12/11/1996	440.96	15.73	425.23	-	**43.6**	-	**0.15**	**8.16**	**1.56**	7.93	-	-	-
MW-1	03/13/1997	440.96	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	06/18/1997	440.96	15.40	425.56	-	**37.3**	-	<0.025	**3.53**	**1.49**	6.91	-	-	-
MW-1	09/19/1997	440.96	14.97	425.99	-	**17.2**	-	<0.025	**1.7**	**0.919**	5.3	-	-	-
MW-1	12/10/1997	440.96	15.80	425.16	-	**32.1**	-	<0.05	**2.77**	**1.86**	9.46	-	-	-
MW-1	03/30/1998	440.96	16.54	424.42	-	**16.8** / **9.34**	-	**0.0142** / <0.025	0.925 / 0.531	**0.98** / 0.569	4.53 / 2.66	-	-	-
MW-1	06/08/1998	440.96	15.94	425.02	-	**7.79**	-	<0.01	0.408	0.476	2.39	-	-	-
MW-1	09/16/1998	440.96	14.32	426.64	-	**12.2** / **13.8**	-	**0.0153** / **0.0197**	0.356 / 0.469	0.593 / **0.719**	3.2 / 3.68	-	-	-
MW-1	12/28/1998	440.96	15.61	425.35	-	**14.3** / **16.3**	-	<0.05 / **0.0252**	0.865 / 0.987	**0.855** / **0.979**	3.8 / 4.29	-	-	-
MW-1	03/13/1999	440.96	16.54	424.42	-	**9.1**	-	<0.025	0.351	**0.751**	3.26	-	-	-
MW-1	06/22/1999	440.96	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/28/1999	440.96	14.92	426.04	-	**8.9**	-	<0.02	0.079	0.59	2.31	-	-	-
MW-1	12/15/1999	440.96	15.84	425.12	-	**8.83**	-	**0.00888**	0.139	0.505	2.11	-	-	-
MW-1	03/21/2000	440.96	16.30	424.66	-	**8.95** / **11.5**	-	<0.01 / <0.005	0.107 / 0.0917	0.346 / 0.34	1.47 / 1.44	-	-	-
MW-1	06/20/2000	440.96	13.97	426.99	-	**4.69**	-	**0.00885**	0.019	0.15	0.565	-	-	-
MW-1	09/13/2000	440.96	12.99	427.97	-	**3.84** / **5.96**	-	<0.005 / <0.005	0.0135 / 0.023	0.147 / 0.216	0.535 / 0.848	-	-	-
MW-1	12/13/2000	440.96	14.79	426.17	-	**6.29** / **5.14**	-	<0.004 / <0.004	0.0249 / 0.0142	0.178 / 0.125	0.631 / 0.452	-	-	-
MW-1	03/20/2001	440.96	15.64	425.32	-	**6.39** / **6.69**	-	<0.0132 / <0.014	0.0133 / 0.0172	0.218 / 0.21	0.793 / 0.754	-	-	-
MW-1	06/20/2001	440.96	14.76	426.20	-	**4.16** / **6.18**	-	**0.00516** / 0.00295	0.00613 / 0.0107	0.194 / 0.197	0.756 / 0.785	-	-	-
MW-1	09/18/2001	440.96	14.03	426.93	-	**4.88** / **5.73**	-	**0.00726** / **0.0078**	0.00718 / <0.005	0.189 / 0.186	0.706 / 0.627	-	-	-
MW-1	03/25/2002	440.96	16.12	424.84	-	**5.07** / **5.31**	-	**0.00747** / **0.00528**	<0.005 / <0.005	0.151 / 0.17	0.692 / 0.812	-	-	-
MW-1	09/15/2002	440.96	13.02	427.94	-	**4.53** / **4.03**	-	0.00369 / 0.00419	0.000738 / <0.005	0.0813 / 0.107	0.424 / 0.394	-	-	-
MW-1	04/10/2003	440.96	15.55	425.41	-	**4.8** / **4.9**	-	<0.01 / <0.02	<0.002 / <0.002	0.072 / 0.073	0.33 / 0.33	-	-	-
MW-1	09/05/2003	440.96	12.56	428.40	-	**2.6** / **2.9**	-	<0.005 / <0.01	0.0006 / 0.0006	0.037 / 0.042	0.16 / 0.18	-	-	-
MW-1	03/03/2004	440.96	15.85	425.11	-	**3.6** / **3.3**	-	<0.01 / <0.02	<0.002 / <0.002	0.046 / 0.043	0.22 / 0.2	-	-	-
MW-1	09/20/2004	440.96	15.32	425.64	-	**3.5** / **2.6**	-	<0.01 / <0.01	<0.0005 / <0.002	0.033 / 0.037	0.17 / 0.19	-	-	-
MW-1	04/04/2005	440.96	16.20	424.76	-	**2.8** / **2.5**	-	0.0023 / 0.0021	<0.0005 / <0.0005	0.022 / 0.024	0.11 / 0.13	-	-	-
MW-1	09/29/2005	440.91	14.16	426.75	-	**2.5** / 1.8	-	<0.005 / <0.005	<0.0005 / <0.0005	0.02 / 0.017	0.099 / 0.066	-	-	-
MW-1	03/24/2006	440.91	16.25	424.66	-	1.8 / 2	-	<0.01 / <0.01	<0.0005 / <0.0005	0.0088 / 0.011	0.049 / 0.06	-	-	-
MW-1	04/02/2008	440.91	16.48	424.43	0.325 / 0.466	**3.25** / **2.83**	<0.758 / <0.75	**0.00676** / **0.00564**	0.000652 / <0.0005	0.0023 / 0.00187	0.0123 / 0.0101	-	-	-
MW-1	07/20/2009	-	-	-	<0.056	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-1	07/26/2010	440.91	15.30	425.61	0.11 J / 0.097 J	1.0 / 1.1	-	0.0032 / 0.0032	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.001	-	-	-
MW-1	06/14/2011	440.91	15.26	425.65	-	-	-	-	-	-	-	-	-	-
MW-1	06/16/2011	-	-	-	<0.048	0.23	-	<0.0020	<0.0005	<0.0005	<0.0015	-	-	-
MW-1	08/20/2012	440.91	14.75	426.16	0.085 J	0.99	-	**0.0074**	0.0016 J	<0.0005	<0.0015	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-1	07/26/2013	440.91	14.91	426.00	-	-	-	-	-	-	-	-	-	-
MW-1	07/27/2013	-	-	-	0.20 J	1.0 J	-	<0.00024	<0.00023	<0.00024	<0.00072	-	-	-
MW-1	01/29/2014	440.91	14.95	425.96	<0.20	<0.050	-	<0.00024	<0.00023	<0.00024	<0.00072	-	-	-
MW-2	06/22/1994	439.45	13.61	425.84	-	**37**	-	**11**	**9.3**	**1.2**	4.9	-	-	-
MW-2	09/28/1994	439.45	13.50	425.95	-	**67**	-	**18.8**	**13.8**	**1.4**	6.7	-	-	-
MW-2	11/21/1994	439.45	14.07	425.38	-	**140**	-	**38**	**33**	**4**	**14**	-	-	-
MW-2	03/29/1995	439.45	14.73	424.72	-	**110**	-	**29**	**26**	**2.1**	10	-	-	-
MW-2	06/29/1995	439.42	13.08	426.34	-	**42**	-	**8.3**	**8.1**	**1.1**	4.7	-	-	-
MW-2	09/19/1995	439.42	11.75	427.67	-	**26**	-	**5.4**	**6.1**	0.65	2.3	-	-	-
MW-2	12/13/1995	439.42	13.60	425.82	-	**170 / 150**	-	**24 / 24**	**29 / 28**	**1.3 / 1.3**	7.5 / 7.7	-	-	-
MW-2	03/08/1996	439.42	14.70	424.72	-	**91 / 100**	-	**18 / 22**	**14 / 22**	**1 / 1.7**	5.5 / 9.8	-	-	-
MW-2	06/01/1996	439.42	13.72	425.70	-	**83.9 / 80.1**	-	**17.1 / 16.6**	**14.4 / 13.8**	**1.03 / 1.01**	4.97 / 4.85	-	-	-
MW-2	09/18/1996	439.42	13.79	425.63	-	**12.4**	-	**1.26**	**1.25**	0.132	0.925	-	-	-
MW-2	12/11/1996	439.42	14.20	425.22	-	**26 / 24.8**	-	**1.86 / 1.9**	**5.52 / 5.36**	0.473 / 0.459	3.47 / 3.24	-	-	-
MW-2	03/13/1997	439.42	14.59	424.83	-	0.741	-	**0.0788**	0.159	0.00954	0.134	-	-	-
MW-2	06/18/1997	439.42	15.15	424.27	-	0.067 / 0.065	-	0.00221 / 0.00266	0.00631 / 0.00751	0.00293 / 0.00245	0.0182 / 0.0162	-	-	-
MW-2	09/19/1997	439.42	14.28	425.14	-	<0.5	-	<0.0005	0.000797	<0.0005	0.00145	-	-	-
MW-2	12/10/1997	439.42	13.84	425.58	-	<0.5	-	0.000529	0.000801	0.00102	0.00472	-	-	-
MW-2	03/30/1998	439.42	14.65	424.77	-	0.15	-	<0.0005	0.00684	0.00728	0.0536	-	-	-
MW-2	06/09/1998	439.42	17.12	422.30	-	<0.5	-	<0.0005	0.00149	0.000726	0.00356	-	-	-
MW-2	09/16/1998	439.42	14.81	424.61	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-2	12/28/1998	439.42	13.19	426.23	-	<0.5	-	<0.001	<0.001	<0.001	<0.002	-	-	-
MW-2	03/13/1999	439.42	14.75	424.67	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-2	06/22/1999	439.42	15.36	424.06	-	<0.5	-	0.00203	<0.0005	0.0012	0.00723	-	-	-
MW-2	09/28/1999	439.42	14.29	425.13	-	0.063 / 0.077	-	0.00314 / 0.00333	0.000887 / <0.0005	0.00483 / 0.00544	0.0049 / 0.00485	-	-	-
MW-2	12/15/1999	439.42	14.59	424.83	-	0.0802	-	**0.00736**	<0.0005	0.00286	0.00451	-	-	-
MW-2	03/21/2000	439.42	15.04	424.38	-	0.0516	-	**0.00648**	<0.0005	0.00148	0.00213	-	-	-
MW-2	06/20/2000	439.42	12.77	426.65	-	<0.8	-	0.00189	<0.0005	<0.0005	0.00302	-	-	-
MW-2	09/13/2000	439.42	11.74	427.68	-	<0.5	-	0.00169	<0.0005	0.000807	0.00345	-	-	-
MW-2	12/13/2000	439.42	13.59	425.83	-	1.08	-	**0.00594**	<0.00103	0.0564	0.195	-	-	-
MW-2	03/20/2001	439.42	14.39	425.03	-	0.427	-	**0.00507**	<0.0005	0.0272	0.0686	-	-	-
MW-2	06/20/2001	439.42	13.58	425.84	-	0.147	-	0.00203	<0.0005	0.00999	0.0209	-	-	-
MW-2	09/18/2001	439.42	12.83	426.59	-	0.431	-	0.00251	0.0005	0.0264	0.102	-	-	-
MW-2	03/25/2002	439.42	14.97	424.45	-	1.16	-	0.00373	0.00487	0.0986	0.315	-	-	-
MW-2	09/15/2002	439.42	11.76	427.66	-	1.34	-	**0.00747**	<0.005	0.0759	0.319	-	-	-
MW-2	04/10/2003	439.42	13.91	425.51	-	**2.7**	-	**0.0064**	<0.0005	0.2	0.62	-	-	-
MW-2	09/05/2003	439.42	11.28	428.14	-	1.6	-	0.0043	<0.0005	0.11	0.43	-	-	-
MW-2	03/01/2004	439.42						Well Beneath snowbank, no access						
MW-2	09/20/2004	439.42	14.03	425.39	-	**2.3**	-	**0.0051**	<0.0005	0.15	0.41	-	-	-
MW-2	04/04/2005	439.42	14.75	424.67	-	1.9	-	0.0026	<0.0005	0.072	0.55	-	-	-
MW-2	09/29/2005	439.39	12.76	426.66	-	**2.6**	-	**0.0058**	0.0007	0.14	0.6	-	-	-
MW-2	03/26/2006	439.39	14.79	424.60	-	**2.7**	-	0.0038	<0.0005	0.096	0.68	-	-	-
MW-2	04/02/2008	439.39	14.90	424.49	-	-	-	-	-	-	-	-	-	-
MW-2	04/05/2008	-	-	-	0.674	1.81	<0.714	0.00317	<0.0005	0.0471	0.456	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					***1.5***	***2.2***	***1.1***	***0.005***	***1.0***	***0.7***	***10.0***			
MW-2	07/21/2009	-	-	-	0.68	0.54	-	<0.0005	<0.0005	0.0077	0.12	-	-	-
MW-2	07/25/2010	439.39	13.70	425.69	0.64	1.7	-	0.0031	0.0006 J	0.027	0.28	-	-	-
MW-2	06/14/2011	439.39	13.61	425.78	-	-	-	-	-	-	-	-	-	-
MW-2	08/02/2011	439.39	12.51	426.88	0.19 J / 0.22 J	0.55 / 0.53	-	0.0032 / 0.0031	<0.0005 / <0.0005	0.010 / 0.0098	0.086 / 0.079	-	-	-
MW-2	08/20/2012	439.39	13.40	425.99	0.85	1.4	-	0.0032	0.0005 J	0.014	0.16	-	-	-
MW-2	07/26/2013	439.39	13.49	425.90	-	-	-	-	-	-	-	-	-	-
MW-2	07/27/2013	-	-	-	0.71	0.72	-	0.0015	<0.00023	0.011	0.17	-	-	-
MW-2	01/29/2014	439.39	14.38	425.01	1.2	<0.050	-	0.00063 J	<0.00023	<0.00024	0.0038	-	-	-
MW-3	06/22/1994	439.84	14.25	425.59	-	ND	-	ND	ND	ND	ND	-	-	-
MW-3	09/27/1994	439.84	13.75	426.09	-	ND	-	0.0016	0.002	ND	0.001	-	-	-
MW-3	11/22/1994	439.84	14.38	425.46	-	ND	-	0.0013	ND	ND	ND	-	-	-
MW-3	03/29/1995	439.84	15.07	424.77	-	ND	-	0.0021	0.002	ND	0.006	-	-	-
MW-3	06/29/1995	439.93	13.40	426.53	-	ND	-	0.0006	ND	ND	ND	-	-	-
MW-3	09/18/1995	439.93	12.08	427.85	-	ND	-	0.0006	ND	ND	ND	-	-	-
MW-3	12/12/1995	439.93	14.10	425.83	-	ND	-	ND	ND	ND	ND	-	-	-
MW-3	03/08/1996	439.93	15.12	424.81	ND	ND	-	ND	ND	ND	ND	-	-	-
MW-3	05/30/1996	439.93	14.16	425.77	-	ND	-	ND	ND	ND	ND	-	-	-
MW-3	09/18/1996	439.93	14.20	425.73	-	ND	-	ND	ND	ND	ND	-	-	-
MW-3	12/11/1996	439.93	15.10	424.83	-	ND	-	ND	ND	ND	ND	-	-	-
MW-3	03/13/1997	439.93	15.61	424.32	-	ND	-	ND	ND	ND	ND	-	-	-
MW-3	06/18/1997	439.93	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/19/1997	439.93	14.32	425.61	-	<0.5	-	<0.0005	<0.0005	<0.0005	0.0011	-	-	-
MW-3	12/10/1997	439.93	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	06/09/1998	439.93	15.30	424.63	-	<0.5 / <0.5	-	<0.0005 / <0.0005	<0.0005 / <0.0005	).000592 / <0.000!	0.0022 / 0.00176	-	-	-
MW-3	09/16/1998	439.93	13.69	426.24	-	0.178	-	<0.0005	0.00504	0.00805	0.0687	-	-	-
MW-3	12/28/1998	439.93	15.26	424.67	-	<0.5	-	<0.001	<0.001	<0.001	<0.002	-	-	-
MW-3	03/13/1999	439.93	15.89	424.04	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-3	06/22/1999	439.93	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/28/1999	439.93	14.32	425.61	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-3	12/15/1999	439.93	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/21/2000	439.93	15.04	424.89	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.0001	-	-	-
MW-3	06/20/2000	439.93	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/13/2000	439.93	12.42	427.51	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.0001	-	-	-
MW-3	12/13/2000	439.93	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/20/2001	439.93	15.10	424.83	-	<0.5	-	<0.0002	<0.0005	<0.0005	<0.0001	-	-	-
MW-3	06/20/2001	439.93	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/18/2001	439.93	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/25/2002	439.93	15.74	424.19	-	<0.5	-	<0.0002	<0.0005	<0.0005	<0.001	-	-	-
MW-3	04/09/2003	439.93	15.13	424.80	-	0.012	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-3	09/01/2004	439.93				Well Beneath snowbank - no access. Well Decommissioned due to damage on 8/19/2004.								
MW-3	09/26/2005	439.93						Well removed and replaced with MW-3R						
MW-3R	09/29/2005	440.14	13.38	426.76	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-3R	03/24/2006	440.14	15.31	424.83	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-3R	04/02/2008	440.14	15.45	424.69	-	-	-	-	-	-	-	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-3R	04/05/2008	-	-	-	0.506	<0.05	<0.735	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-3R	07/21/2009	-	-	-	0.12	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-3R	07/26/2010	440.14	14.19	425.95	0.12 J	0.012 J	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-3R	06/14/2011	440.14	14.14	426.00	-	-	-	-	-	-	-	-	-	-
MW-3R	06/15/2011	-	-	-	0.24 J	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-3R	08/20/2012	440.14	13.95	426.19	<0.049	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-4	06/20/1994	439.23	13.51	425.72	-	**140**	-	**7.7**	**56**	**4.6**	**20**	-	-	-
MW-4	09/27/1994	439.23	13.15	426.08	-	**98**	-	**5.51**	**35**	**3.8**	**17.8**	-	-	-
MW-4	11/21/1994	439.23	13.74	425.49	-	**120**	-	**5.2**	**42**	**5**	**28**	-	-	-
MW-4	03/29/1995	439.23	14.44	424.79	-	**60**	-	**1**	**17**	**2.6**	**15**	-	-	-
MW-4	06/29/1995	439.16	12.76	426.40	**1.9**	**79**	-	**0.79**	**20**	**3.3**	**16**	-	-	-
MW-4	09/18/1995	439.16	11.35	427.81	-	**47**	-	**0.4**	**11**	**1.8**	**12**	-	-	-
MW-4	12/13/1995	439.16	13.30	425.86	-	**87**	-	**0.45**	**12**	**2.3**	**14**	-	-	-
MW-4	03/08/1996	439.16	14.39	424.77	-	**130**	-	**0.66**	**33**	**5.3**	**30**	-	-	-
MW-4	05/31/1996	439.16	13.38	425.78	-	**102**	-	**0.407**	**15.9**	**3.45**	**22.3**	-	-	-
MW-4	09/19/1996	439.16	13.45	425.71	-	**92.1**	-	**0.332**	**11**	**3.37**	**22.2**	-	-	-
MW-4	12/12/1996	439.16	14.22	424.94	-	**39.8**	-	**0.164**	**3.81**	**1.33**	**10.3**	-	-	-
MW-4	03/13/1997	439.16	14.81	424.35	-	**37.2**	-	**0.141**	**3.15**	**1.21**	**10.1**	-	-	-
MW-4	06/18/1997	439.16	13.81	425.35	-	**33.8**	-	<0.1	**2.76**	**1.27**	9.77	-	-	-
MW-4	09/19/1997	439.16	13.42	425.74	-	**34**	-	<0.1	**3.5**	**1.62**	**12.3**	-	-	-
MW-4	12/10/1997	439.16	14.33	424.83	-	**38.7**	-	**0.0506**	**1.82**	**1.33**	**11.3**	-	-	-
MW-4	03/30/1998	439.16	15.03	424.13	-	**20.5**	-	<0.05	**1.27**	**0.849**	6.66	-	-	-
MW-4	06/09/1998	439.16	14.34	424.82	-	**18.7**	-	<0.05	0.771	0.673	6.53	-	-	-
MW-4	09/16/1998	439.16	12.74	426.42	-	**29.1**	-	**0.0338**	0.818	**1.15**	9.45	-	-	-
MW-4	12/28/1998	439.16	14.43	424.73	-	**25.9**	-	**0.00803**	0.275	**0.939**	7.03	-	-	-
MW-4	03/13/1999	439.16	15.02	424.14	-	**13.6**	-	<0.05	0.122	0.644	4.82	-	-	-
MW-4	06/22/1999	439.16	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/28/1999	439.16	13.49	425.67	-	**22.7**	-	<0.04	0.095	**0.766**	4.89	-	-	-
MW-4	12/15/1999	439.16	14.29	424.87	-	**17.5**	-	**0.0225**	0.0454	**0.71**	3.7	-	-	-
MW-4	03/21/2000	439.16	14.75	424.41	-	**12.5**	-	<0.025	0.0276	0.366	1.99	-	-	-
MW-4	06/20/2000	439.16	12.47	426.69	-	**14.9**	-	**0.0235**	0.0475	0.395	1.79	-	-	-
MW-4	09/13/2000	439.16	11.45	427.71	-	**12.4**	-	<0.01	0.0278	0.386	2.01	-	-	-
MW-4	12/13/2000	439.16	13.24	425.92	-	**11.5**	-	<0.01	<0.025	0.442	1.91	-	-	-
MW-4	03/20/2001	439.16	14.10	425.06	-	**9.26**	-	<0.0042	<0.01	0.326	1.34	-	-	-
MW-4	06/20/2001	439.16	13.27	425.89	-	**7.96**	-	**0.0125**	0.0114	0.36	**13.91**	-	-	-
MW-4	09/18/2001	439.16	12.51	426.65	-	**9.65**	-	**0.0129**	<0.01	0.373	1.53	-	-	-
MW-4	03/25/2002	439.16	14.65	424.51	-	**8.38 / 4.2**	-	**0.00919 / 0.00646**	0.00536 / <0.005	0.259 / 0.115	0.94 / 0.342	-	-	-
MW-4	09/15/2002	439.16	11.46	427.70	-	**8.69**	-	**0.00693**	<0.005	0.315	1.17	-	-	-
MW-4	04/10/2003	439.16	13.96	425.20	-	**5.6**	-	<0.01	0.0013	0.15	0.52	-	-	-
MW-4	09/05/2003	439.16	10.88	428.28	-	**6.3**	-	<0.02	0.0015	0.17	0.43	-	-	-
MW-4	03/03/2004	439.16	14.09	425.07	-	**3.8**	-	<0.02	0.001	0.11	0.3	-	-	-
MW-4	09/20/2004	439.16	13.72	425.44	-	**6.1**	-	<0.02	<0.0025	0.12	0.28	-	-	-
MW-4	04/04/2005	439.16	14.48	424.68	-	**4**	-	0.0032	0.0007	0.056	0.13	-	-	-
MW-4	09/29/2005	438.98	12.50	426.66	-	**3.2**	-	<0.01	<0.005	0.029	0.083	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-4	03/24/2006	438.98	14.30	424.68	-	2.1	-	0.0041	<0.0005	0.023	0.045	-	-	-
MW-4	04/02/2008	438.98	14.47	424.51	-	-	-	-	-	-	-	-	-	-
MW-4	04/05/2008	-	-	-	0.511	**2.5**	<0.773	**0.00581**	0.000569	0.0113	0.0219	-	-	-
MW-4	07/21/2009	-	-	-	0.13	0.18	-	0.0005	<0.0005	0.0021	0.0033	-	-	-
MW-4	07/25/2010	438.98	13.20	425.78	0.092 J	0.049 J	-	<0.0005	<0.0005	0.0005 J	0.0021 J	-	-	-
MW-4	06/14/2011	438.98	13.11	425.87	-	-	-	-	-	-	-	-	-	-
MW-4	08/02/2011	438.98	12.04	426.94	0.087 J	0.031 J	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-4	08/20/2012	438.98	12.93	426.05	<0.049	0.049 J	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-4	07/26/2013	438.98	13.03	425.95	-	-	-	-	-	-	-	-	-	-
MW-4	07/27/2013	-	-	-	0.14 J	<0.050	-	<0.00024	<0.00023	<0.00024	<0.00072	-	-	-
MW-4	01/29/2014	438.98	13.46	425.52	0.46	<0.050	-	<0.00024	<0.00023	<0.00024	<0.00072	-	-	-
MW-5	06/22/1994	439.90	13.95	426.99	-	**150**	-	**33**	**45**	**3.8**	**16**	-	-	-
MW-5	09/27/1994	439.90	13.82	427.12	-	**103**	-	**22.8**	**24.1**	**2.9**	**13.9**	-	-	-
MW-5	11/21/1994	439.90	14.44	426.50	-	**150**	-	**29**	**39**	**5**	**30**	-	-	-
MW-5	03/29/1995	439.90	15.10	425.84	-	**160**	-	**12**	**25**	**5**	**50**	-	-	-
MW-5	06/29/1995	439.82	13.45	426.37	-	**19**	-	**17**	**37**	**5.2**	**33**	-	-	-
MW-5	09/19/1995	439.82	12.10	427.72	-	**170**	-	**26**	**48**	**4**	**26**	-	-	-
MW-5	12/13/1995	439.82	13.85	425.97	-	**420**	-	**43**	**60**	**56**	**35**	-	-	-
MW-5	03/08/1996	439.82	14.90	424.92	**2**	**240**	-	**37**	**46**	**3.2**	**15**	-	-	-
MW-5	06/01/1996	439.82	14.07	425.75	-	**124**	-	**15.4**	**25.4**	**2.11**	9.89	-	-	-
MW-5	09/17/1996	439.82	14.11	425.71	-	**176**	-	**22.4**	**36.2**	**2.83**	**14.4**	-	-	-
MW-5	12/11/1996	439.82	14.81	425.01	-	**175**	-	**17.2**	**34.5**	**3.21**	**18.2**	-	-	-
MW-5	03/13/1997	439.82	15.46	424.36	-	**54**	-	**3.12**	**12.9**	**0.986**	8.43	-	-	-
MW-5	06/18/1997	439.82	14.61	425.21	-	**7.15**	-	**0.23**	0.953	0.259	1.21	-	-	-
MW-5	09/19/1997	439.82	14.20	425.62	-	2.15 / **3.05**	-	**0.0261** / <0.0125	0.402 / 0.613	0.108 / 0.158	0.551 / 0.769	-	-	-
MW-5	12/10/1997	439.82	15.00	424.82	-	**7.7** / **6.39**	-	**0.16** / **0.138**	0.427 / 0.418	0.336 / 0.34	1.94 / 1.72	-	-	-
MW-5	03/30/1998	439.82	16.72	423.10	-	1.69	-	**0.00589**	0.389	0.062	0.322	-	-	-
MW-5	06/09/1998	439.82	15.14	424.68	-	1.28	-	<0.005	0.281	0.0452	0.213	-	-	-
MW-5	09/16/1998	439.82	13.53	426.29	-	**2.82** / **2.45**	-	<0.0125 / <0.01	0.13 / 0.132	0.141 / 0.145	0.796 / 0.814	-	-	-
MW-5	12/28/1998	439.82	15.09	424.73	-	**3.33**	-	0.0021	0.06	0.218	0.881	-	-	-
MW-5	03/13/1999	439.82	15.67	424.15	-	**4.49** / **5.37**	-	**0.0267** / **0.03**	0.065 / 0.079	0.391 / 0.45	1.22 / 1.41	-	-	-
MW-5	06/22/1999	439.82	14.72	425.10	-	**5.66**	-	**0.0307**	0.539	0.207	0.991	-	-	-
MW-5	09/28/1999	439.82	14.18	425.64	-	**8.47**	-	<0.025	0.052	0.282	1.46	-	-	-
MW-5	12/15/1999	439.82	14.95	424.87	-	**7.58** / **5.9**	-	**0.0305** / **0.0238**	0.0454 / 0.0318	0.411 / 0.307	1.92 / 1.38	-	-	-
MW-5	03/21/2000	439.82	15.40	424.42	-	**5.38**	-	**0.013**	0.0707	0.179	0.708	-	-	-
MW-5	06/20/2000	439.82	13.13	426.69	-	**5.47** / **4.79**	-	**0.0143** / **0.0142**	0.153 / 0.14	0.184 / 0.171	0.875 / 0.74	-	-	-
MW-5	09/13/2000	439.82	12.16	427.66	-	**9.57**	-	**0.0117**	0.134	0.38	2.19	-	-	-
MW-5	12/13/2000	439.82	13.89	425.93	-	**13**	-	<0.01	0.251	0.576	3.73	-	-	-
MW-5	03/20/2001	439.82	14.74	425.08	-	**15.1**	-	<0.021	0.338	0.637	3.71	-	-	-
MW-5	06/20/2001	439.82	13.98	425.84	-	**11.8**	-	**0.00715**	0.325	0.455	2.9	-	-	-
MW-5	09/18/2001	439.82	13.13	426.69	-	**11.5**	-	**0.013**	0.223	0.485	3.26	-	-	-
MW-5	03/25/2002	439.82	15.30	424.52	-	**9.63**	-	**0.00552**	0.0291	0.448	3.24	-	-	-
MW-5	09/15/2002	439.82	12.13	427.69	-	**15.3**	-	**0.00898**	0.0296	0.577	4.59	-	-	-
MW-5	04/10/2003	439.82	14.49	425.33	-	**23**	-	<0.01	0.021	**0.85**	6.8	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-5	09/05/2003	439.82	11.64	428.18	-	**18**	-	**0.03**	0.037	0.57	4.6	-	-	-
MW-5	03/03/2004	439.82	14.83	424.99	-	**24**	-	<0.02	0.0058	0.68	5.6	-	-	-
MW-5	09/20/2004	439.82	14.37	425.45	-	**20**	-	<0.02	0.0042	0.5	4.5	-	-	-
MW-5	04/04/2005	439.82	15.13	424.69	-	**11**	-	0.0044	0.0022	0.24	2.4	-	-	-
MW-5	09/29/2005	439.82	13.15	426.67	1.4	**13**	<0.1	<0.01	<0.0025	0.27	2.3	-	-	-
MW-5	03/26/2006	439.82	15.15	424.67	**2.8**	**11**	<0.42	**0.0095**	0.0019	0.21	1.9	-	-	-
MW-5	04/02/2008	439.82	15.58	424.24	0.359	<0.05	<0.765	<0.0005	0.000647	<0.0005	<0.001	-	-	-
MW-5	07/20/2009	-	-	-	**3.9**	**12**	-	**0.0096**	0.0014	0.067	0.48	-	-	-
MW-5	07/25/2010	439.82	14.09	425.73	1.1 J	**5.1**	-	**0.0067**	0.0006 J	0.0090	0.059	-	-	-
MW-5	09/09/2010	439.82	13.91	425.91	-	-	-	-	-	-	-	-	-	<0.010 / <0.010
MW-5	06/14/2011	439.82	13.97	425.85	-	-	-	-	-	-	-	-	-	-
MW-5	06/16/2011	-	-	-	**3.7**	**5.9**	-	**0.0078 J**	<0.0025	0.0089 J	0.058	-	-	-
MW-5	08/20/2012	439.82	13.76	426.06	**4.3 / 4.3**	**8.0 / 7.2**	-	**0.013 / 0.0094 J**	0.0036 J / 0.0028 J	0.0046 J / 0.0038 J	0.020 J / 0.019 J	0.0000097 / <0.000009	<0.001 / <0.00	-
MW-5	07/26/2013	439.82	13.83	425.99	-	-	-	-	-	-	-	-	-	-
MW-5	07/27/2013	-	-	-	**2.5 / 2.2**	1.6 / 1.6 J	-	0.00049 J / 0.00051	<0.00023 / <0.0002	0.0014 / 0.0013	0.0076 / 0.0071	-	-	-
MW-5	01/29/2014	439.82	14.76	425.06	**4.0 J / 2.2 J**	**3.0 / 3.0**	-	0.00080 J / <0.0024	0.00036 J / <0.0023	0.0012 / <0.0024	0.0055 / <0.0072	-	-	-
MW-6	06/20/1994	439.39	13.88	425.51	-	**13**	-	**2.3**	0.65	**0.85**	2.6	-	-	-
MW-6	09/28/1994	439.39	13.44	425.95	-	**9**	-	**2.43**	0.9	0.7	1.8	-	-	-
MW-6	11/21/1994	439.39	14.03	425.36	-	**28**	-	**5.8**	**7.8**	**1.6**	5.2	-	-	-
MW-6	03/29/1995	439.39	14.69	424.70	-	**32**	-	**3.4**	**7**	**1.7**	6.5	-	-	-
MW-6	06/29/1995	439.37	13.06	426.31	-	**4.2**	-	**0.23**	0.008	0.51	0.96	-	-	-
MW-6	09/18/1995	439.37	11.69	427.68	-	**2.4**	-	**0.19**	0.017	0.3	0.39	-	-	-
MW-6	12/13/1995	439.37	13.65	425.72	-	**39**	-	**3.6**	**7.3**	**1.2**	4	-	-	-
MW-6	03/08/1996	439.37	14.67	424.70	-	**58**	-	**3.6**	**17**	**2.1**	7.9	-	-	-
MW-6	05/31/1996	439.37	13.66	425.71	-	**15.3**	-	**0.377**	**1.02**	**0.972**	3.38	-	-	-
MW-6	09/17/1996	439.37	13.74	425.63	-	**15.4**	-	**0.848**	**2.08**	**0.84**	2.5	-	-	-
MW-6	12/12/1996	439.37	14.55	424.82	-	**31.7**	-	**2.08**	**7.24**	**1.16**	3.39	-	-	-
MW-6	03/13/1997	439.37	15.10	424.27	-	**22.4**	-	**0.773**	**4.51**	**1.17**	3.95	-	-	-
MW-6	06/18/1997	439.37	14.23	425.14	-	**8.06**	-	**0.124**	0.05	**0.846**	1.68	-	-	-
MW-6	09/20/1997	439.37	13.85	425.52	-	**2.46**	-	**0.0724**	0.0331	0.387	0.39	-	-	-
MW-6	12/10/1997	439.37	14.63	424.74	-	**5.13**	-	**0.728**	**5.13**	**1.13**	2.64	-	-	-
MW-6	03/31/1998	439.37	15.37	424.00	-	**12.2**	-	**0.174**	0.638	**1.31**	3.47	-	-	-
MW-6	06/08/1998	439.37	14.77	424.60	-	**4.55**	-	**0.0649**	0.21	0.665	1.23	-	-	-
MW-6	09/16/1998	439.37	13.16	426.21	-	0.87	-	**0.0144**	<0.0025	0.173	0.159	-	-	-
MW-6	12/29/1998	439.37	14.70	424.67	-	**16.9**	-	**0.249**	**4.21**	**1.11**	2.71	-	-	-
MW-6	03/14/1999	439.37	15.35	424.02	-	**23**	-	**0.176**	**4.55**	**1.82**	5.84	-	-	-
MW-6	06/22/1999	439.37	14.36	425.01	-	**5.91**	-	**0.0271**	<0.01	**0.769**	1.78	-	-	-
MW-6	09/28/1999	439.37	13.78	425.59	-	0.698	-	**0.0095**	<0.0025	0.117	0.142	-	-	-
MW-6	12/16/1999	439.37	14.59	424.78	-	**4.24 / 4.55**	-	**0.102 / 0.0971**	0.24 / 0.226	0.562 / 0.522	0.964 / 0.903	-	-	-
MW-6	03/21/2000	439.37	15.04	424.33	-	**10.4**	-	**0.0599**	**1.41**	**0.907**	1.91	-	-	-
MW-6	06/20/2000	439.37	12.77	426.60	-	**2.99**	-	**0.0135**	0.00408	0.407	0.585	-	-	-
MW-6	09/13/2000	439.37	11.80	427.57	-	0.439	-	0.0042	<0.0005	0.0457	0.0888	-	-	-
MW-6	12/13/2000	439.37	13.45	425.92	-	0.655	-	**0.00841**	0.00103	0.049	0.0695	-	-	-
MW-6	03/20/2001	439.37	14.42	424.95	-	**24.9**	-	**0.238**	**2.52**	**1.77**	6.26	-	-	-

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FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-6	06/20/2001	439.37	13.56	425.81	-	**7.54**	-	**0.0543**	0.0153	**0.967**	2.22	-	-	-
MW-6	09/18/2001	439.37	12.84	426.53	-	0.976	-	**0.0134**	<0.25	0.171	0.233	-	-	-
MW-6	03/25/2002	439.37	14.98	424.39	-	**13.8**	-	**0.42**	0.0788	**1.41**	3.3	-	-	-
MW-6	04/16/2002	439.37	-	-	-	**24.6**	-	**0.198**	**1.41**	**1.68**	6.16	-	-	-
MW-6	09/15/2002	439.37	11.79	427.58	-	0.34	-	0.00415	<0.0005	0.0116	0.0755	-	-	-
MW-6	04/09/2003	439.37	14.25	425.12	-	**23 / 24**	-	**0.25 / 0.27**	0.83 / 0.95	**1.5 / 1.6**	5.5 / 5.8	-	-	-
MW-6	09/05/2003	439.37	11.34	428.03	-	1.8	-	**0.023**	<0.0005	0.15	0.38	-	-	-
MW-6	03/03/2004	439.37	14.55	424.82	-	**25**	-	**0.34**	0.18	**1.4**	6.2	-	-	-
MW-6	09/20/2004	439.37	14.06	425.31	-	**3.8**	-	**0.094**	0.012	0.23	0.7	-	-	-
MW-6	04/04/2005	439.37	14.82	424.55	-	**5.9 / 6.1**	-	**0.078 / 0.078**	0.0006 / 0.0006	0.46 / 0.47	1.5 / 1.6	-	-	-
MW-6	09/29/2005	439.47							Well Inaccessible					
MW-6	03/24/2006	439.47	14.85	424.62	-	**16 / 17**	-	**0.25 / 0.25**	0.0087 / 0.0097	**1.3 / 1.3**	4 / 4.2	-	-	-
MW-6	04/02/2008	439.47	15.01	424.46	1.04 / 1.15	**7.56 / 7.28**	<0.773 / <0.781	**0.0438 / 0.0432**	0.00106 / 0.00108	0.56 / 0.534	1.8 / 1.75	-	-	-
MW-6	07/21/2009	-	-	-	0.16	0.73	-	**0.0063**	<0.0005	0.023	0.18	-	-	-
MW-6	07/26/2010	439.47	13.81	425.66	0.13 J / 0.15 J	0.33 / 0.31	-	0.0028 / 0.0028	<0.0005 / <0.0005	<0.0005 / <0.0005	0.0037 J / 0.0034	-	-	-
MW-6	07/26/2013	439.47							No Access					
MW-7	06/22/1994	439.72	13.97	425.75	-	**44**	-	**11**	**6.2**	**1.6**	5.5	-	-	-
MW-7	09/28/1994	439.72	13.90	425.82	-	**38**	-	**11.4**	**5.9**	**1.8**	5.8	-	-	-
MW-7	11/22/1994	439.72	14.46	425.26	-	**41**	-	**12**	**8.6**	**1.9**	6.9	-	-	-
MW-7	03/29/1995	439.72	15.12	424.60	-	**39**	-	**8.6**	**6.8**	**1.6**	6.1	-	-	-
MW-7	06/29/1995	439.70	13.45	426.25	-	**18**	-	**5.1**	**2.5**	**0.9**	2.6	-	-	-
MW-7	09/18/1995	439.70	12.08	427.62	-	**2.7**	-	**0.75**	0.005	0.25	0.286	-	-	-
MW-7	12/13/1995	439.70	14.00	425.70	-	**26**	-	**4.8**	0.53	**1**	3.8	-	-	-
MW-7	03/08/1996	439.70	15.10	424.60	-	**25**	-	**5.1**	0.25	**0.96**	2.4	-	-	-
MW-7	06/01/1996	439.70	14.11	425.59	-	**13.2**	-	**3.36**	0.0381	0.649	1.03	-	-	-
MW-7	09/18/1996	439.70	14.19	425.51	-	**15.8**	-	**4.06**	0.0526	**0.807**	1.12	-	-	-
MW-7	12/11/1996	439.70	14.98	424.72	-	**12.3**	-	**3.34**	0.0529	**0.715**	0.884	-	-	-
MW-7	03/13/1997	439.70	15.52	424.18	-	**13.6**	-	**3.37**	0.162	**0.785**	1.17	-	-	-
MW-7	06/18/1997	439.70	14.66	425.04	-	**4.63**	-	**1.43**	<0.0125	0.371	0.257	-	-	-
MW-7	09/20/1997	439.70	14.27	425.43	-	**3.23**	-	**1.25**	<0.01	0.305	0.181	-	-	-
MW-7	12/10/1997	439.70	14.95	424.75	-	**2.31**	-	**0.818**	<0.01	0.253	0.112	-	-	-
MW-7	03/31/1998	439.70	15.79	423.91	-	0.798	-	**0.28**	<0.0025	0.145	0.0127	-	-	-
MW-7	06/09/1998	439.70	15.19	424.51	-	0.473	-	**0.157**	0.00101	0.117	0.00789	-	-	-
MW-7	09/16/1998	439.70	13.57	426.13	-	0.264	-	**0.0553**	0.00217	0.0422	0.0323	-	-	-
MW-7	12/28/1998	439.70	15.15	424.55	-	0.186	-	**0.045**	0.00122	0.0343	0.02006	-	-	-
MW-7	03/13/1999	439.70	15.75	423.95	-	0.203 / 0.181	-	**0.061 / 0.0607**	<0.0005 / <0.0005	0.043 / 0.0426	<0.001 / <0.001	-	-	-
MW-7	06/22/1999	439.70	14.77	424.93	-	0.0859	-	**0.0243**	<0.0005	0.0075	<0.001	-	-	-
MW-7	09/28/1999	439.70	14.19	425.51	-	0.119 / 0.149	-	**0.0186 / 0.0218**	<0.0005 / 0.00082	0.0062 / 0.0073	0.0175 / 0.0217	-	-	-
MW-7	12/16/1999	439.70	14.97	424.73	-	0.0503	-	**0.0162**	<0.0005	0.00117	<0.001	-	-	-
MW-7	03/21/2000	439.70	15.42	424.28	-	0.0516	-	**0.0163**	<0.0005	<0.0005	<0.001	-	-	-
MW-7	06/20/2000	439.70	13.14	426.56	-	0.0516	-	**0.0156**	<0.0005	<0.0005	<0.001	-	-	-
MW-7	09/13/2000	439.70	12.17	427.53	-	<0.8	-	0.00499	<0.0005	<0.0005	<0.001	-	-	-
MW-7	12/13/2000	439.70	13.92	425.78	-	<0.8	-	0.00483	<0.0005	<0.0005	<0.001	-	-	-
MW-7	03/21/2001	439.70	14.79	424.91	-	<0.5 / <0.5	-	0.00309 / **0.0135**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-7	06/20/2001	439.70	13.96	425.74	-	<0.5 / <0.5	-	**0.00702** / 0.00474	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	-	-	-
MW-7	09/18/2001	439.70	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/25/2002	439.70	15.31	424.39	-	1.16	-	0.00153	<0.0005	<0.0005	<0.001	-	-	-
MW-7	04/10/2003	439.70	14.66	425.04	-	0.015	-	0.0008	<0.0005	<0.0005	<0.0005	-	-	-
MW-7	03/03/2004	439.70	14.89	424.81	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-7	04/04/2005	439.70	14.90	424.50	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-7	03/24/2006	439.70	15.21	424.49	-	0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-7	04/02/2008	439.70	15.33	424.37	0.208	<0.05	<0.773	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-7	07/20/2009	-	-	-	0.072	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-7	07/25/2010	439.70	14.12	425.58	0.056 J	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-7	06/14/2011	439.70	14.05	425.65	-	-	-	-	-	-	-	-	-	-
MW-7	08/02/2011	439.70	12.95	426.75	<0.049	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-7	08/20/2012	439.70	13.85	425.85	<0.050	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-8	06/27/1995	439.58	13.39	426.19	0.1	1.65	-	**0.711**	0.001	0.03	0.019	-	-	-
MW-8	09/19/1995	439.58	12.03	427.55	-	**4.4**	-	**2.2**	0.015	0.102	0.154	-	-	-
MW-8	12/13/1995	439.58	13.96	425.62	**2.4**	**7.2**	-	**0.24**	ND	0.0028	0.0017	-	-	-
MW-8	03/08/1996	439.58	15.03	424.55	-	**2.6**	-	ND	ND	0.013	0.0035	-	-	-
MW-8	05/31/1996	439.58	14.03	425.55	0.478	1.94	-	**0.726**	ND	0.00442	0.0101	-	-	-
MW-8	09/16/1996	439.58	14.11	425.47	-	1.36	-	**0.593**	ND	0.00107	ND	-	-	-
MW-8	12/11/1996	439.58	14.93	424.65	-	1.31	-	**0.592**	0.000518	0.00309	0.00105	-	-	-
MW-8	03/13/1997	439.58	15.41	424.17	-	0.362	-	**0.126**	ND	0.00167	ND	-	-	-
MW-8	06/18/1997	439.58	14.58	425.00	-	1.71	-	**0.673**	<0.005	<0.005	<0.01	-	-	-
MW-8	09/20/1997	439.58	14.19	425.39	-	0.114	-	**0.0529**	<0.0005	<0.0005	<0.001	-	-	-
MW-8	12/10/1997	439.58	14.95	424.63	-	0.0787	-	**0.0334**	<0.0005	<0.0005	<0.001	-	-	-
MW-8	03/20/1998	439.58	15.72	423.86	-	-	-	-	-	-	-	-	-	-
MW-8	06/09/1998	439.58	15.11	424.47	-	0.427	-	**0.299**	<0.0025	0.00302	0.00814	-	-	-
MW-8	09/16/1998	439.58	13.49	426.09	-	1.87	-	**1.53**	<0.01	0.0367	0.0517	-	-	-
MW-8	12/29/1998	439.58	15.10	424.48	-	0.485	-	**0.257**	<0.0025	<0.0025	<0.005	-	-	-
MW-8	03/14/1999	439.58	15.68	423.90	-	<0.5	-	**0.019**	<0.0005	<0.0005	<0.001	-	-	-
MW-8	06/22/1999	439.58	14.70	424.88	-	1.13	-	**0.534**	<0.01	<0.01	<0.02	-	-	-
MW-8	09/28/1999	439.58	14.12	425.46	-	1.4	-	**0.637**	<0.01	<0.01	<0.02	-	-	-
MW-8	12/16/1999	439.58	14.89	424.69	-	0.0775	-	**0.04**	<0.0005	<0.0005	<0.001	-	-	-
MW-8	03/21/2000	439.58	15.35	424.23	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-8	06/20/2000	439.58	13.06	426.52	-	1.13	-	**0.436**	<0.005	0.00504	<0.01	-	-	-
MW-8	09/14/2000	439.58	12.06	427.52	-	0.242	-	**0.106**	<0.0005	<0.0005	<0.001	-	-	-
MW-8	12/14/2000	439.58	13.84	425.74	-	<0.5	-	<0.0002	<0.0005	<0.0005	<0.001	-	-	-
MW-8	03/21/2001	439.58	14.71	424.87	-	<0.5	-	<0.0002	<0.0005	<0.0005	<0.001	-	-	-
MW-8	06/20/2001	439.58	13.89	425.69	-	0.296	-	**0.141**	<0.0005	<0.0005	<0.001	-	-	-
MW-8	09/18/2001	439.58	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	03/25/2002	439.58	15.30	424.28	-	<0.05	-	<0.0002	<0.0005	<0.0005	<0.001	-	-	-
MW-8	04/10/2003	439.58	14.58	425.00	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-8	03/03/2004	439.58	14.80	424.78	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-8	04/04/2005	439.58	15.11	424.47	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-8	03/24/2006	439.58	15.13	424.45	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-8	04/02/2008	439.58	15.44	424.14					Ice in well casing prevented access					
MW-8	07/20/2009	-	-	-	<0.052	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-8	07/25/2010	439.58	14.09	425.49	<0.049	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-8	06/14/2011	439.58	13.90	425.68	-	-	-	-	-	-	-	-	-	-
MW-8	06/15/2011	-	-	-	<0.052	<0.010	-	0.0014 J	<0.0005	<0.0005	<0.0015	-	-	-
MW-8	08/20/2012	439.58	13.79	425.79	<0.049	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
MW-9	06/30/1995	438.76	12.51	426.25	-	**87**	-	**3.7**	**2.1**	**3.8**	**16**	-	-	-
MW-9	09/19/1995	438.76	11.10	427.66	-	**78**	-	**3.2**	**37**	**3.1**	**14**	-	-	-
MW-9	12/13/1995	438.76	13.00	425.76	-	**91**	-	**2.9**	**18**	**2.3**	**11**	-	-	-
MW-9	03/08/1996	438.76	14.10	424.66	-	**110 / 110**	-	**3.7 / 3.8**	**34 / 35**	**3.6 / 3.7**	**17 / 17**	-	-	-
MW-9	05/30/1996	438.76	13.10	425.66	-	**104**	-	**2.53**	**22.8**	**3.52**	**15.9**	-	-	-
MW-9	09/16/1996	438.76	13.19	425.57	-	**72.4**	-	**1.67**	**16**	**2.4**	**10.9**	-	-	-
MW-9	12/12/1996	438.76	13.96	424.80	-	**111**	-	**2.29**	**24.9**	**4.44**	**18.3**	-	-	-
MW-9	03/13/1997	438.76	14.52	424.24	-	**84.7 / 79.3**	-	**1.62 / 1.58**	**19.3 / 19.1**	**2.94 / 2.84**	**13.8 / 13.5**	-	-	-
MW-9	06/18/1997	438.76	13.66	425.10	-	**74.4 / 74.6**	-	**1.12 / 1.13**	**14.7 / 14.8**	**3.34 / 3.24**	**14.3 / 13.9**	-	-	-
MW-9	09/20/1997	438.76	13.27	425.49	-	**59.2**	-	**0.84**	**15.9**	**2.87**	**12.6**	-	-	-
MW-9	12/10/1997	438.76	14.00	424.76	-	**66.8 / 69.8**	-	**0.76 / 0.804**	**16.7 / 17**	**2.99 / 3.57**	**16 / 16.6**	-	-	-
MW-9	03/30/1998	438.76	14.80	423.96	-	**57.9**	-	**0.508**	**13.9**	**2.71**	**12.5**	-	-	-
MW-9	06/09/1998	438.76	14.21	424.55	-	**52.9**	-	**0.513**	**12**	**2.61**	**12.1**	-	-	-
MW-9	09/17/1998	438.76	12.59	426.17	-	**29.7**	-	**0.332**	**5.52**	**1.3**	7.06	-	-	-
MW-9	12/29/1998	438.76	14.15	424.61	-	**52.9**	-	**0.238**	**9.92**	**2.32**	**12.83**	-	-	-
MW-9	03/13/1999	438.76	14.78	423.98	-	**56.4**	-	**0.272**	**11.2**	**3.24**	**16.7**	-	-	-
MW-9	08/09/1999	438.76	-	-	-	**56.2**	-	**0.11**	**6.64**	**2.61**	**11.8**	-	-	-
MW-9	09/28/1999	438.76	13.22	425.54	-	**36.3**	-	<0.2	**4.61**	**1.92**	9.24	-	-	-
MW-9	12/15/1999	438.76	13.98	424.78	-	**45.8**	-	<0.125	**6.67**	**2.53**	**13.9**	-	-	-
MW-9	03/22/2000	438.76	14.43	424.33	-	**54.1**	-	**0.0598**	**4.77**	**2.05**	**10.9**	-	-	-
MW-9	06/20/2000	438.76	12.16	426.60	-	**44.2**	-	**0.062**	**3.54**	**2.02**	**10.4**	-	-	-
MW-9	09/14/2000	438.76	11.20	427.56	-	**41.9**	-	**0.0346**	**3.45**	**1.97**	**10.6**	-	-	-
MW-9	12/14/2000	438.76	12.94	425.82	-	**26.2**	-	<0.02	**1.92**	**1.3**	7.29	-	-	-
MW-9	03/21/2001	438.76	13.81	424.95	-	**37.7**	-	<0.046	**2.52**	**1.98**	**11**	-	-	-
MW-9	06/20/2001	438.76	12.98	425.78	-	**35.6**	-	**0.0408**	**2.3**	**1.83**	**11.4**	-	-	-
MW-9	09/18/2001	438.76	12.24	426.52	-	**19.4**	-	<0.02	0.567	**1.1**	6.01	-	-	-
MW-9	03/25/2002	438.76	14.37	424.39	-	**42.4**	-	**0.0189**	**1.47**	**2.01**	**12.5**	-	-	-
MW-9	09/15/2002	438.76	11.17	427.59	-	**24.5**	-	**0.0125**	0.175	**1.28**	5.81	-	-	-
MW-9	04/10/2003	438.76	13.64	425.12	-	**41**	-	<0.05	0.43	**1.7**	**11**	-	-	-
MW-9	09/05/2003	438.76	10.71	428.05	-	**35**	-	<0.05	0.22	**1.5**	9.3	-	-	-
MW-9	03/03/2004	438.76	13.87	424.89	-	**34**	-	<0.05	0.13	**1.3**	7.3	-	-	-
MW-9	09/20/2004	438.76	13.45	425.31	-	**27**	-	<0.05	0.053	**1.1**	5.9	-	-	-
MW-9	04/04/2005	438.76	14.18	424.58	-	**26**	-	<0.01	0.11	**1.2**	6.6	-	-	-
MW-9	09/29/2005	438.75	12.25	426.51	1.4	**20**	<0.19	<0.01	0.041	**0.86**	4.6	-	-	-
MW-9	03/26/2006	438.75	14.21	424.54	**2.4**	**24**	<0.39	<0.1	0.075	**0.96**	5.8	-	-	-
MW-9	04/02/2008	438.75	14.33	424.42	**4.06**	**19.6**	<0.773	**0.01**	0.0232	**0.72**	3.85	-	-	-
MW-9	07/22/2009	-	-	-	**1.9**	**8.8**	-	<0.015	0.0057	0.33	1.4	-	-	-
MW-9	07/25/2010	438.75	13.16	425.59	1.3 J	**9.2**	-	<0.050	0.0061 J	0.30	1.4	-	-	-

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1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-9	09/09/2010	438.75	12.96	425.79	-	-	-	-	-	-	-	-	-	<10.0
MW-9	06/14/2011	438.75	13.04	425.71	-	-	-	-	-	-	-	-	-	-
MW-9	06/15/2011	-	-	-	**1.7 / 1.6**	**4.8 / 4.9**	-	<0.030 / <0.030	0.0043 J / 0.0046 J	0.14 / 0.15	0.64 / 0.66	-	-	-
MW-9	08/20/2012	438.75	12.85	425.90	**1.5 / 1.5**	**5.7 / 5.6**	-	<0.033 / <0.034	0.0045 J / 0.0040 J	0.14 / 0.14	0.52 / 0.51	-	-	-
MW-9	07/26/2013	438.75	12.91	425.84	-	-	-	-	-	-	-	-	-	-
MW-9	07/27/2013	-	-	-	**1.6**	**4.2**	-	0.00058 J	0.0019	0.12	0.49	-	-	-
MW-9	01/29/2014	438.75	13.74	425.01	**1.6**	**5.0**	-	<0.0024	0.0047 J	0.14	0.59	-	-	-
MW-10	06/30/1995	439.22	12.78	426.44	-	**23**	-	**0.0212**	**2.5**	**1.5**	7	-	-	-
MW-10	09/19/1995	439.22	11.45	427.77	-	**13**	-	**0.021**	0.89	**0.98**	3.8	-	-	-
MW-10	12/12/1995	439.22	13.30	425.92	-	**19**	-	**0.088**	0.13	**1.4**	3.4	-	-	-
MW-10	03/08/1996	439.22	14.38	424.84	-	**13**	-	**0.099**	0.015	**1**	1.8	-	-	-
MW-10	06/01/1996	439.22	13.42	425.80	-	**17.4**	-	**0.108**	0.0493	**1.23**	2.34	-	-	-
MW-10	09/19/1996	439.22	13.48	425.74	-	**20.4**	-	**0.224**	0.292	**1.52**	3.61	-	-	-
MW-10	12/11/1996	439.22	14.25	424.97	-	**14.3**	-	**0.107**	0.0538	**1.15**	1.89	-	-	-
MW-10	03/13/1997	439.22	14.80	424.42	-	**3.38**	-	**0.0237**	ND	0.462	0.491	-	-	-
MW-10	06/10/1997	439.22	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/19/1997	439.22	13.54	425.68	-	**21.3**	-	**0.302**	**1.06**	**1.86**	6.63	-	-	-
MW-10	12/10/1997	439.22	14.33	424.89	-	**8.57**	-	**0.0548**	0.025	**0.953**	1.3	-	-	-
MW-10	03/30/1998	439.22	15.06	424.16	-	1.68	-	**0.0109**	ND	0.281	0.255	-	-	-
MW-10	06/09/1998	439.22	14.49	424.73	-	2.2	-	<0.02	<0.0025	0.313	0.23	-	-	-
MW-10	09/17/1998	439.22	12.88	426.34	-	2.2	-	**0.0167**	<0.005	0.373	0.347	-	-	-
MW-10	12/28/1998	439.22	14.42	424.80	-	**2.95**	-	**0.00829**	<0.001	0.503	0.481	-	-	-
MW-10	03/13/1999	439.22	15.03	424.19	-	2	-	**0.0133**	<0.005	0.424	0.443	-	-	-
MW-10	08/09/1999	439.22	-	-	-	**13.2**	-	**0.061**	0.549	**0.991**	3.47	-	-	-
MW-10	09/28/1999	439.22	13.48	425.74	-	**8.17**	-	**0.04**	0.0984	**0.836**	2.5	-	-	-
MW-10	12/15/1999	439.22	14.27	424.95	-	**5.14**	-	**0.0206**	0.00248	**0.947**	0.988	-	-	-
MW-10	03/21/2000	439.22	14.72	424.50	-	**2.43**	-	**0.00778**	<0.005	0.403	0.378	-	-	-
MW-10	06/20/2000	439.22	12.47	426.75	-	0.413	-	0.00195	0.000632	0.0475	0.0337	-	-	-
MW-10	09/14/2000	439.22	11.51	427.71	-	0.838 / 0.666	-	<0.0033 / <0.00275	<0.0025 / <0.0025	0.135 / 0.12	0.0923 / 0.0804	-	-	-
MW-10	12/14/2000	439.22	13.23	425.99	-	**3.26 / 3.03**	-	<0.005 / <0.001	<0.0025 / <0.0025	0.405 / 0.425	0.285 / 0.316	-	-	-
MW-10	03/21/2001	439.22	-	-	-	**7.15**	-	<0.022	<0.0025	**0.821**	1.13	-	-	-
MW-10	06/21/2001	439.22	13.27	425.95	-	**6.04**	-	**0.0101**	0.122	0.637	1.15	-	-	-
MW-10	09/18/2001	439.22	12.53	426.69	-	**6.41**	-	**0.0131**	0.063	0.7	1.07	-	-	-
MW-10	03/25/2002	439.22	14.55	424.67	-	**4.14**	-	**0.00788**	0.0499	0.524	0.681	-	-	-
MW-10	09/15/2002	439.22	12.46	426.76	-	1.75	-	0.00248	0.00216	0.16	0.172	-	-	-
MW-10	04/10/2003	439.22	13.92	425.30	-	**10**	-	<0.02	0.13	0.7	1.6	-	-	-
MW-10	09/05/2003	439.22	10.97	428.25	-	**3.1**	-	<0.005	0.014	0.19	0.37	-	-	-
MW-10	03/03/2004	439.22	14.16	425.06	-	**4.1**	-	<0.01	0.0089	0.3	0.52	-	-	-
MW-10	09/20/2004	439.22	13.71	425.51	-	**13**	-	<0.02	0.12	0.64	2	-	-	-
MW-10	04/04/2005	439.22	14.45	424.77	-	**3.8**	-	<0.005	0.011	0.19	0.45	-	-	-
MW-10	09/29/2005	439.19	12.53	426.69	-	**6.5**	-	<0.005	0.099	0.37	1.3	-	-	-
MW-10	03/24/2006	439.19	14.45	424.74	-	**4.7**	-	<0.025	0.0027	0.22	0.53	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-10	04/02/2008	439.19	14.66	424.53	-	-	-	-	-	-	-	-	-	-
MW-10	04/05/2008	-	-	-	0.803	**4.14**	<0.735	**0.00583**	<0.0005	0.161	0.308	-	-	-
MW-10	07/21/2009	-	-	-	0.77	**3.1**	-	**0.0052**	<0.0005	0.17	0.42	-	-	-
MW-10	07/25/2010	-	-	-	0.33	**2.9**	-	<0.020	<0.0005	0.12	0.32	-	-	-
MW-10	06/14/2011	439.19	13.30	425.89	-	-	-	-	-	-	-	-	-	-
MW-10	06/16/2011	-	-	-	0.42	1.2	-	0.0034	0.001 J	0.069	0.16	-	-	-
MW-10	08/20/2012	439.19	13.04	426.15	0.56	2.1	-	**0.0062**	0.0013 J	0.12	0.24	-	-	-
MW-10	07/26/2013	439.19	13.17	426.02	-	-	-	-	-	-	-	-	-	-
MW-10	07/27/2013	-	-	-	1.0	1.2	-	<0.00024	0.00037 J	0.083	0.21	-	-	-
MW-10	01/29/2014	439.19	14.08	425.11	0.47	0.094 J	-	<0.00024	<0.00023	0.0065	<0.00072	-	-	-
MW-11	06/30/1995	440.42	13.96	426.46	**14.9**	**34**	-	**0.01**	0.102	**8**	**28**	-	-	-
MW-11	09/18/1995	440.42	12.60	427.82	-	-	-	-	-	-	-	-	-	-
MW-11	12/12/1995	440.42	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/08/1996	440.42	15.55	424.87	ND	**35**	-	**0.23**	0.012	**1.4**	2.6	-	-	-
MW-11	05/30/1996	440.42	14.55	425.87	**3.4**	**17.6**	-	**0.111**	ND	**0.883**	2.07	-	-	-
MW-11	09/17/1996	440.42	14.64	425.78	-	**37.9**	-	**0.224**	0.0104	**1.13**	2.45	-	-	-
MW-11	12/11/1996	440.42	15.42	425.00	-	**28.8**	-	**0.222**	ND	**0.892**	1.88	-	-	-
MW-11	03/13/1997	440.42	16.05	424.37	-	**29.5**	-	**0.165**	ND	**0.923**	2.31	-	-	-
MW-11	06/18/1997	440.42	15.16	425.26	-	-	-	-	-	-	-	-	-	-
MW-11	09/19/1997	440.42	14.72	425.70	-	**23.4**	-	<0.1	<0.1	**0.742**	2.06	-	-	-
MW-11	12/10/1997	440.42	15.60	424.82	-	**19.6**	-	**0.0342**	0.0132	0.667	1.49	-	-	-
MW-11	03/30/1998	440.42	16.34	424.08	-	**14.5**	-	**0.0234**	ND	0.301	0.795	-	-	-
MW-11	06/09/1998	440.42	15.74	424.68	-	**14.4**	-	<0.025	<0.01	0.352	0.741	-	-	-
MW-11	09/15/1998	440.42	14.12	426.30	-	**12.7**	-	<0.034	<0.01	0.319	0.603	-	-	-
MW-11	12/28/1998	440.42	15.75	424.67	-	**9.97**	-	<0.001	<0.001	0.202	0.35715	-	-	-
MW-11	03/13/1999	440.42	16.34	424.08	-	**9.11**	-	**0.0539**	0.022	0.29	0.523	-	-	-
MW-11	06/22/1999	440.42	15.37	425.05	-	**5.6 / 5.14**	-	<0.03 / <0.0255	<0.0071 / <0.0075	0.173 / 0.197	0.342 / 0.303	-	-	-
MW-11	09/28/1999	440.42	14.75	425.67	-	**3.15**	-	<0.01	<0.005	0.082	0.143	-	-	-
MW-11	12/15/1999	440.42	15.63	424.79	-	**8.09**	-	<0.02	<0.0075	0.162	0.276	-	-	-
MW-11	03/21/2000	440.42	16.09	424.33	-	**9.01**	-	<0.005	<0.0085	0.128	0.252	-	-	-
MW-11	06/21/2000	440.42	13.84	426.58	-	**8.7**	-	**0.0192**	<0.0025	0.126	0.253	-	-	-
MW-11	09/14/2000	440.42	13.08	427.34	-	**5.44**	-	<0.00297	<0.00298	0.094	0.175	-	-	-
MW-11	12/14/2000	440.42	14.63	425.79	-	**10.6**	-	<0.004	<0.01	0.0911	0.184	-	-	-
MW-11	03/21/2001	440.42	15.49	424.93	-	**12.2**	-	<0.002	0.013	0.157	0.328	-	-	-
MW-11	06/20/2001	440.42	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/18/2001	440.42	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/25/2002	440.42	15.85	424.57	-	**7.83**	-	**0.0182**	0.00154	0.0921	0.176	-	-	-
MW-11	04/09/2003	440.42	15.17	425.25	-	**8.5**	-	<0.02	<0.005	0.052	0.1	-	-	-
MW-11	03/02/2004	440.42	15.50	424.92	-	**4.9**	-	<0.05	<0.0025	0.04	0.076	-	-	-
MW-11	04/04/2005	440.42	15.82	424.60	-	**7.5**	-	**0.0077**	<0.0025	0.046	0.085	-	-	-
MW-11	03/24/2006	440.38	15.63	424.75	-	**4.6**	-	<0.025	<0.01	0.02	0.04	-	-	-
MW-11	04/02/2008	440.38	15.85	424.53	0.438	**3.55**	<0.714	**0.00737**	<0.0005	0.00901	0.016	-	-	-
MW-11	07/21/2009	-	-	-	0.2	2.1	-	**0.0056**	<0.0005	0.0038	0.0074	-	-	-
MW-11	07/26/2010	440.38	14.67	425.71	0.16 J	**3.1**	-	**0.0077**	0.0005 J	0.0044	0.0084	-	-	-

TABLE 3

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FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-11	06/14/2011	440.38	14.66	425.72	-	-	-	-	-	-	-	-	-	-
MW-11	06/16/2011	-	-	-	0.17 J	1.8	-	<0.010	0.0019 J	0.0022	0.0041 J	-	-	-
MW-11	08/20/2012	440.38	14.46	425.92	0.11 J	1.8	-	**0.0086**	0.0027	0.0017 J	0.0026 J	-	-	-
MW-11	07/26/2013	440.38	14.40	425.98	-	-	-	-	-	-	-	-	-	-
MW-11	07/27/2013	-	-	-	0.27 J	1.2 J	-	<0.00024	<0.00023	0.0010	0.0019 J	-	-	-
MW-12	06/30/1995	439.59	13.29	426.30	-	0.067	-	ND	0.002	0.002	0.008	-	-	-
MW-12	09/20/1995	439.59	11.95	427.64	-	ND	-	ND	ND	ND	ND	-	-	-
MW-12	12/13/1995	439.59	13.83	425.76	-	ND	-	ND	ND	ND	ND	-	-	-
MW-12	03/07/1996	439.59	14.90	424.69	-	ND	-	ND	ND	ND	ND	-	-	-
MW-12	05/31/1996	439.59	13.90	425.69	-	ND	-	ND	ND	ND	ND	-	-	-
MW-12	09/16/1996	439.59	13.96	425.63	-	ND	-	ND	ND	ND	ND	-	-	-
MW-12	12/11/1996	439.59	14.75	424.84	-	ND	-	ND	ND	ND	ND	-	-	-
MW-12	03/13/1997	439.59	15.31	424.28	-	ND	-	ND	ND	ND	ND	-	-	-
MW-12	06/18/1997	439.59	14.43	425.16	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-12	09/20/1997	439.59	14.05	425.54	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-12	12/10/1997	439.59	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	03/31/1998	439.59	15.58	424.01	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-12	09/16/1998	439.59	13.37	426.22	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-12	03/14/1999	439.59	15.54	424.05	-	<0.5	-	<0.0005	<0.0005	<0.0005	0.00059	-	-	-
MW-12	09/28/1999	439.59	13.98	425.61	-	<0.5	-	<0.0005	<0.0005	<0.0005	0.00121	-	-	-
MW-12	12/15/1999	439.59	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	03/21/2000	439.59	15.22	424.37	<0.0005	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-12	06/20/2000	439.59	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	09/13/2000	439.59	12.00	427.59	<0.0005	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-12	12/14/2000	439.59	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	03/21/2001	439.59	14.59	425.00	<0.0002	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-12	06/20/2001	439.59	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	08/19/2004							Well Decommissioned on 8/19/2004				-	-	-
MW-13	06/30/1995	439.17	12.92	426.25	-	**6.7**	-	**1.7**	0.79	0.46	6.9	-	-	-
MW-13	09/18/1995	439.17	11.55	427.62	-	**3.2**	-	**0.8**	0.003	0.32	0.22	-	-	-
MW-13	12/13/1995	439.17	13.45	425.72	-	**7 / 7.1**	-	**1.4 / 1.4**	0.00098 / ND	0.39 / 0.37	0.26 / 0.28	-	-	-
MW-13	03/07/1996	439.17	14.50	424.67	-	**3.7**	-	**1.2**	0.0009	0.19	0.075	-	-	-
MW-13	05/31/1996	439.17	13.56	425.61	-	**10.5**	-	**2.09**	0.781	0.578	0.829	-	-	-
MW-13	09/16/1996	439.17	13.62	425.55	-	**17 / 18.6**	-	**1.9 / 2.06**	**1.44 / 1.42**	**1.05 / 1.11**	2.9 / 2.7	-	-	-
MW-13	12/11/1996	439.17	14.40	424.77	-	**2.69 / 2.83**	-	**0.356 / 0.374**	ND / ND	0.33 / 0.351	0.217 / 0.216	-	-	-
MW-13	03/13/1997	439.17	14.96	424.21	-	1.36 / 1.96	-	**0.371 / 0.308**	ND / ND	0.178 / 0.23	ND / ND	-	-	-
MW-13	06/18/1997	439.17	14.10	425.07	-	**5.44**	-	**1.43**	0.0177	0.578	0.231	-	-	-
MW-13	09/19/1997	439.17	13.70	425.47	-	**4.83 / 4.8**	-	**0.751 / 0.691**	<0.005 / <0.0125	**0.801 / 0.717**	0.524 / 0.463	-	-	-
MW-13	12/10/1997	439.17	14.47	424.70	-	2.05	-	**0.231**	0.0035	0.417	0.206	-	-	-
MW-13	03/30/1998	439.17	15.24	423.93	-	**2.23**	-	**0.284**	0.18	0.31	0.174	-	-	-
MW-13	06/08/1998	439.17	14.66	424.51	-	**4.89 / 5.02**	-	**0.576 / 0.619**	0.107 / 0.0919	0.697 / 0.653	0.597 / 0.624	-	-	-
MW-13	09/15/1998	439.17	13.02	426.15	-	1.73	-	**0.0991**	0.000636	0.281	0.118	-	-	-
MW-13	12/29/1998	439.17	14.61	424.56	-	0.134	-	**0.00988**	<0.001	0.0148	0.0259	-	-	-
MW-13	03/14/1999	439.17	15.20	423.97	-	<0.5	-	**0.00785**	<0.0005	<0.0005	0.00234	-	-	-

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1501 SOUTH CUSHMAN STREET
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					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-13	06/22/1999	439.17	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	09/28/1999	439.17	13.64	425.53	-	1.58	-	**0.0855**	<0.0025	0.306	0.224	-	-	-
MW-13	12/16/1999	439.17	14.42	424.75	-	<0.05	-	**0.00739**	<0.0005	0.00138	0.0041	-	-	-
MW-13	03/22/2000	439.17	14.89	424.28	-	<0.5	-	0.0049	<0.0005	<0.0005	<0.001	-	-	-
MW-13	06/20/2000	439.17	12.63	426.54	-	0.335	-	**0.0542**	<0.0005	0.0233	0.0178	-	-	-
MW-13	09/14/2000	439.17	11.36	427.81	-	0.186	-	**0.0128**	<0.0005	0.0148	0.0243	-	-	-
MW-13	12/13/2000	439.17	13.40	425.77	-	0.074	-	**0.0116**	<0.0005	0.00235	0.00702	-	-	-
MW-13	03/21/2001	439.17	14.27	424.90	-	<0.5	-	0.00491	<0.0005	<0.0005	<0.001	-	-	-
MW-13	06/20/2001	439.17	13.44	425.73	-	0.41	-	**0.0406**	0.00417	0.051	0.0531	-	-	-
MW-13	09/18/2001	439.17	12.71	426.46	-	0.212	-	**0.0361**	<0.0005	0.0257	0.0235	-	-	-
MW-13	03/25/2002	439.17	14.84	424.33	-	<0.05	-	**0.0181**	<0.0005	<0.0005	<0.001	-	-	-
MW-13	09/15/2002	439.17	11.64	427.53	-	0.0799	-	**0.02**	<0.0005	0.00282	0.00135	-	-	-
MW-13	04/10/2003	439.17	14.18	424.99	-	0.026	-	**0.009**	<0.0005	<0.0005	<0.0015	-	-	-
MW-13	09/05/2003	439.17	11.18	427.99	-	0.18	-	**0.05**	<0.0005	<0.0005	0.007	-	-	-
MW-13	03/03/2004	439.17	14.40	424.77	-	<0.01	-	0.0006	<0.0005	<0.0005	<0.0015	-	-	-
MW-13	09/20/2004	439.17	13.95	425.22	-	0.39	-	**0.12**	<0.0005	0.001	0.0082	-	-	-
MW-13	04/04/2005	439.17	14.71	424.46	-	0.032	-	**0.011**	<0.0005	<0.0005	<0.0015	-	-	-
MW-13	09/29/2005	439.26	12.82	426.35	-	0.052	-	**0.013**	<0.0005	<0.0005	<0.0015	-	-	-
MW-13	03/23/2006	439.26	14.73	424.53	-	0.012	-	0.0023	<0.0005	<0.0005	<0.0015	-	-	-
MW-13	04/02/2008	439.26				Ice in well prevented access						-	-	
MW-13	07/25/2010	439.26	13.74	425.52	0.056 J	<0.010	-	0.0006 J	<0.0005	<0.0005	<0.0015	-	-	-
MW-13	06/14/2011	439.26	13.58	425.68	-	-	-	-	-	-	-	-	-	-
MW-13	06/15/2011	-	-	-	0.075 J	<0.010	-	0.0030	<0.0005	<0.0005	<0.0015	-	-	-
MW-13	08/20/2012	439.26	13.45	425.81	<0.052	0.16	-	**0.016**	<0.0005	0.0006 J	0.038	-	-	-
MW-14	06/30/1995	439.26	13.10	426.16	0.0005	0.057	-	0.0007	0.004	0.002	0.008			-
MW-14	09/20/1995	439.26	11.70	427.56	-	ND	-	0.0006	ND	ND	ND			-
MW-14	12/13/1995	439.26	13.65	425.61	-	ND	-	ND	ND	ND	ND			-
MW-14	03/07/1996	439.26	14.70	424.56	-	ND	-	ND	ND	ND	ND			-
MW-14	05/31/1996	439.26	13.71	425.55	-	ND	-	ND	ND	ND	ND			-
MW-14	09/16/1996	439.26	13.81	425.45	-	ND	-	ND	0.000626	ND	0.00256			-
MW-14	12/11/1996	439.26	14.59	424.67	-	ND	-	ND	ND	ND	ND			-
MW-14	03/13/1997	439.26	15.13	424.13	-	ND	-	ND	ND	ND	ND			-
MW-14	06/18/1997	439.26	14.28	424.98	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001			-
MW-14	09/20/1997	439.26	13.91	425.35	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001			-
MW-14	12/10/1997	439.26	-	-	-	-	-	-	-	-	-			-
MW-14	03/30/1998	439.26	15.41	423.85	-	<0.5 / <0.5	-	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001			-
MW-14	06/08/1998	439.26	-	-	-	-	-	-	-	-	-			-
MW-14	09/17/1998	439.26	13.20	426.06	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001			-
MW-14	12/29/1998	439.26	-	-	-	-	-	-	-	-	-			-
MW-14	03/14/1999	439.26	15.37	423.89	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001			-
MW-14	06/22/1999	439.26	-	-	-	-	-	-	-	-	-			-
MW-14	09/28/1999	439.26	13.81	425.45	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001			-
MW-14	12/15/1999	439.26	-	-	-	-	-	-	-	-	-			-
MW-14	03/21/2000	439.26	15.04	424.22	<0.0005	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001			-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					***1.5***	***2.2***	***1.1***	***0.005***	***1.0***	***0.7***	***10.0***			
MW-14	06/20/2000	439.26	-	-	-	-	-	-	-	-	-			-
MW-14	09/14/2000	439.26	11.80	427.46	<0.0005	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001			-
MW-14	12/14/2000	439.26	-	-	-	-	-	-	-	-	-			-
MW-14	03/21/2001	439.26	14.42	424.84	<0.0002 / <0.000	<0.5 / <0.5	-	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001			-
MW-14	06/20/2001	439.26	-	-	-	-	-	-	-	-	-			-
MW-14	08/19/2004							Well decommissioned on 8/19/2004						
MW-15	09/21/1995	437.55	9.80	427.75	-	ND	-	ND	ND	ND	ND	-	-	-
MW-15	12/12/1995	437.55	11.70	425.85	-	ND	-	ND	ND	ND	ND	-	-	-
MW-15	03/07/1996	437.55	12.78	424.77	-	ND	-	ND	ND	ND	ND	-	-	-
MW-15	05/31/1996	437.55	11.80	425.75	-	ND	-	ND	ND	ND	ND	-	-	-
MW-15	09/16/1996	437.55	11.88	425.67	-	ND	-	ND	ND	ND	ND	-	-	-
MW-15	12/11/1996	437.55	12.66	424.89	-	ND	-	ND	ND	ND	ND	-	-	-
MW-15	03/13/1997	437.55	13.20	424.35	-	ND	-	ND	ND	ND	ND	-	-	-
MW-15	06/18/1997	437.55	12.36	425.19	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-15	09/19/1997	437.55	11.65	425.90	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-15	12/10/1997	437.55	12.74	424.81	-	-	-	-	-	-	-	-	-	-
MW-15	03/30/1998	437.55	13.46	424.09	-	-	-	-	-	-	-	-	-	-
MW-15	06/09/1998	437.55	12.90	424.65	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-15	09/17/1998	437.55	11.28	426.27	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-15	12/29/1998	437.55	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	03/13/1999	437.55	13.46	424.09	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-15	06/22/1999	437.55	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	09/28/1999	437.55	11.90	425.65	-	<0.5	-	<0.0005	<0.0005	0.000511	0.00292	-	-	-
MW-15	12/15/1999	437.55	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	03/21/2000	437.55	13.13	424.42	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-15	06/20/2000	437.55	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	09/14/2000	437.55	9.91	427.64	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-15	12/14/2000	437.55	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	03/21/2001	437.55	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	06/20/2001	437.55	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	08/19/2004							Well decommissioned on 8/19/2004						
MW-16	09/21/1995	437.96	10.33	427.63	-	ND	-	ND	ND	ND	ND	-	-	-
MW-16	12/12/1995	437.96	12.25	425.71	-	ND	-	ND	ND	ND	ND	-	-	-
MW-16	05/30/1996	437.96	12.30	425.66	-	ND	-	ND	ND	ND	ND	-	-	-
MW-16	09/16/1996	437.96	12.44	425.52	-	ND	-	ND	ND	ND	ND	-	-	-
MW-16	12/12/1996	437.96	13.17	424.79	-	ND	-	ND	ND	ND	ND	-	-	-
MW-16	03/13/1997	437.96	13.72	424.24	-	ND	-	ND	ND	ND	ND	-	-	-
MW-16	06/18/1997	437.96	12.89	425.07	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-16	09/19/1997	437.96	12.53	425.43	-	<0.5	-	<0.0005	<0.0005	<0.0005	0.00188	-	-	-
MW-16	12/10/1997	437.96	-	-	-	-	-	-	-	-	-	-	-	-
MW-16	03/31/1998	437.96	14.05	423.91	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-16	06/09/1998	437.96	-	-	-	-	-	-	-	-	-	-	-	-
MW-16	09/17/1998	437.96	11.83	426.13	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-16	12/29/1998	437.96	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
MW-16	03/13/1999	437.96	14.16	423.80	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-16	06/22/1999	437.96	-	-	-	-	-	-	-	-	-	-	-	-
MW-16	09/28/1999	437.96	12.46	425.50	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-16	12/15/1999	437.96	-	-	-	-	-	-	-	-	-	-	-	-
MW-16	03/21/2000	437.96	13.38	424.58	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-16	06/20/2000	437.96	-	-	-	-	-	-	-	-	-	-	-	-
MW-16	09/14/2000	437.96	10.42	427.54	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
MW-16	12/14/2000	437.96	-	-	-	-	-	-	-	-	-	-	-	-
MW-16	03/21/2001	437.96	13.20	424.76	-	<0.5	-	<0.0002	<0.0005	<0.0005	<0.001	-	-	-
MW-16	08/19/2004							Well decommissioned on 8/19/2004						
SWMW-1	06/26/1995	440.34	14.72	425.62	-	0.225	-	**0.114**	ND	ND	ND	-	-	-
SWMW-1	09/19/1995	440.34	12.79	427.55	-	0.36	-	**0.15**	ND	ND	ND	-	-	-
SWMW-1	12/13/1995	440.34	14.68	425.66	-	ND	-	ND	ND	ND	ND	-	-	-
SWMW-1	03/07/1996	440.34	15.71	424.63	-	ND	-	ND	ND	ND	ND	-	-	-
SWMW-1	06/01/1996	440.34	14.79	425.55	-	ND / ND	-	ND / ND	ND / ND	ND / ND	ND / ND	-	-	-
SWMW-1	09/16/1996	440.34	14.84	425.50	-	ND	-	ND	ND	ND	ND	-	-	-
SWMW-1	12/12/1996	440.34	15.59	424.75	-	ND	-	ND	ND	ND	ND	-	-	-
SWMW-1	03/13/1997	440.34	-	-	-	-	-	-	-	-	-	-	-	-
SWMW-1	06/18/1997	440.34	15.31	425.03	-	<0.5	-	0.000534	<0.0005	<0.0005	<0.001	-	-	-
SWMW-1	09/20/1997	440.34	14.80	425.54	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
SWMW-1	12/10/1997	440.34	15.71	424.63	-	-	-	-	-	-	-	-	-	-
SWMW-1	03/30/1998	440.34	16.46	423.88	-	<0.5	-	<0.0005	0.0038	<0.0005	<0.001	-	-	-
SWMW-1	06/09/1998	440.34	-	-	-	-	-	-	-	-	-	-	-	-
SWMW-1	09/16/1998	440.34	14.24	426.10	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
SWMW-1	12/29/1998	440.34	-	-	-	-	-	-	-	-	-	-	-	-
SWMW-1	03/14/1999	440.34	16.44	423.90	-	<0.5	-	<0.0005	<0.0005	0.00101	0.00346	-	-	-
SWMW-1	06/22/1999	440.34	-	-	-	-	-	-	-	-	-	-	-	-
SWMW-1	09/28/1999	440.34	14.86	425.48	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
SWMW-1	12/15/1999	440.34	-	-	-	-	-	-	-	-	-	-	-	-
SWMW-1	03/21/2000	440.34	16.11	424.23	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
SWMW-1	06/20/2000	440.34	-	-	-	-	-	-	-	-	-	-	-	-
SWMW-1	09/14/2000	440.34	12.85	427.49	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
SWMW-1	12/14/2000	440.34	-	-	-	-	-	-	-	-	-	-	-	-
SWMW-1	03/21/2001	440.34	15.48	424.86	-	<0.5	-	<0.0002	<0.0005	<0.0005	<0.001	-	-	-
SWMW-1	06/20/2001							Well destroyed						
Trip Blank	09/16/1996	-	-	-	-	ND	-	ND	ND	ND	ND	-	-	-
Trip Blank	12/11/1996	-	-	-	-	ND	-	ND	ND	ND	ND	-	-	-
Trip Blank	03/13/1997	-	-	-	-	ND	-	ND	ND	ND	ND	-	-	-
Trip Blank	06/18/1997	-	-	-	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
Trip Blank	09/18/1997	-	-	-	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
Trip Blank	12/10/1997	-	-	-	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
Trip Blank	03/31/1998	-	-	-	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
Trip Blank	09/28/1999	-	-	-	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
Trip Blank	12/15/1999	-	-	-	-	<0.5	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

					HYDROCARBONS			*PRIMARY VOCS*						
Location	*Date*	*TOC*	*DTW*	*GWE*	*DRO*	*GRO*	*RRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*EDB*	*1,2-DCA*	*Sulfolane*
	Units	*ft msl*	*fbg*	*ft msl*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]					*1.5*	*2.2*	*1.1*	*0.005*	*1.0*	*0.7*	*10.0*			
Trip Blank	03/25/2002	-	-	-	-	<0.05	-	<0.0002	<0.0005	<0.0005	<0.001	-	-	-
Trip Blank	04/10/2003	-	-	-	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	05/09/2003	-	-	-	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	03/03/2004	-	-	-	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	09/20/2004	-	-	-	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	04/04/2005	-	-	-	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	09/29/2005	-	-	-	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	03/24/2006	-	-	-	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	04/02/2008	-	-	-	-	<0.05	-	<0.0005	<0.0005	<0.0005	<0.001	-	-	-
Trip Blank	07/20/2009	-	-	-	-	<0.01	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	07/21/2009	-	-	-	-	<0.01 / <0.01	-	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.001	-	-	-
Trip Blank	07/26/2010	-	-	-	-	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	06/15/2011	-	-	-	-	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	08/02/2011	-	-	-	-	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	-	-	-
Trip Blank	08/20/2012	-	-	-	-	<0.010	-	<0.0005	<0.0005	<0.0005	<0.0015	<0.0000097	<0.0005	-
Trip Blank	07/27/2013	-	-	-	-	<0.050	-	<0.00024	<0.00023	<0.00024	<0.00072	-	-	-
Trip Blank	01/29/2014	-	-	-	-	<0.050	-	<0.00024	<0.00023	<0.00024	<0.00072	-	-	-

Notes and Abbreviations

TOC = Top of Casing
DTW = Depth to Water
GWE = Groundwater Elevation
DRO = Diesel Range Organics by Alaska Series Method AK102
GRO = Gasoline Range Organics by Alaska Series Method AK101
Benzene, Toluene, Ethylbenzene, and Total Xylenes by Environmental Protection Agency (EPA) Method 8021B or 8260B
Total Xylenes = Sum of m-, o-, and p-xylenes
ADEC = Alaska Department of Environmental Conservation
[a] = Levels established in ADEC Table C Groundwater Cleanup Levels (18 AAC 75.345), there is no established criteria for Sulfolane
BOLD = Indicates concentration above the ADEC Table C Groundwater Cleanup Level
NA = Not Applicable
ft msl = Feet Above Mean Sea Level
fbg = Feet Below Grade
mg/L = Milligrams per Liter
ND = Not detected above laboratory method detection limits
J = Estimated Value
- = Not Measured/Not Analyzed
* = Sample date defaulted to first date listed in historical data table
<x = Constituent not detected above x milligrams per liter
x / y = Sample Results / Blind Duplicate Results
** = Sample date accurate to month and year only
Groundwater data from 1992 through 2007 provided by Gettler-Ryan, Inc.

TABLE 4

HISTORICAL MONITORED NATURAL ATTENUATION PARAMETERS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

		MNA PARAMETERS								
Location	*Date*	*Total Alkalinity*	*Alkalinity, phenolphthalein*	*Sulfate*	*Nitrate as Nitrogen*	*Methane*	*Nitrite (as N)*	*Nitrate by Field Measurement*	*Ferrous Iron by Field Measurement*	*Ferrous Iron*
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]										
MW-1	07/20/2009	184	-	30	<0.25	0.068	-		-	-
MW-1	08/20/2012	232 J	<0.70	14.3	0.44 J	0.024	-		-	-
MW-1	07/27/2013	215	-	21.1	-	0.036	<0.050 J		0.66	<0.015 J
MW-1	01/29/2014	234	-	17.3	1.0 J	0.0042 J	<0.050	3.3	0.20	0.13 J
MW-2	07/21/2009	319	-	22.7	<0.25	0.037	-		-	-
MW-2	08/20/2012	400 J	<0.70	56.8	0.46 J	0.026	-		-	-
MW-2	07/27/2013	251	-	23.6	-	0.055	<0.050 J		3.30	<0.015 J
MW-2	01/29/2014	468	-	85.0	0.87 J	0.013	<0.050 J	12.5	0.33	0.086 J
MW-3R	07/21/2009	208	-	34.3	1	0.031	-		-	-
MW-3R	08/20/2012	196 J	<0.70	39.3	0.42 J	0.050	-		-	-
MW-4	07/21/2009	223	-	9.4	0.33	0.014	-		-	-
MW-4	08/20/2012	231 J	<0.70	35.9	4.4	0.011 J	-		-	-
MW-4	07/27/2013	202	-	18.8	-	0.0085	<0.050 J		0.00	<0.015 J
MW-4	01/29/2014	256	-	29.5	1.8 J	<0.0033	<0.050 J	5.0	0.05	<0.018 J
MW-5	07/20/2009	269	-	8.6	<0.25	0.031	-		-	-
MW-5	08/20/2012	277 J / 279 J	<0.70 / <0.70	8.9 / 8.2	<0.25 / <0.25	0.022 / 0.018	-		-	-
MW-5	07/27/2013	227 / 235	-	13.7 / 13.4	-	0.047 / 0.045	<0.050 J / <0.050 J		2.40 / 2.40	<0.015 J / <0.015 J
MW-5	01/29/2014	250 / 243	-	9.6 / 8.9	<0.050 J / 0.052 J	0.026 / 0.024	<0.050 J / <0.050 J	1.9 / 1.9	1.94 / 1.94	40.6 J / 53.0 J
MW-6	07/21/2009	256	-	17.7	<0.25	0.044	-		-	-
MW-7	07/20/2009	392	-	70	<0.25	0.027	-		-	-
MW-7	08/20/2012	329 J	<0.70	51.3	<0.25 UJ	0.041	-		-	-
MW-8	07/20/2009	450	-	86.7	<0.25	0.15	-		-	-
MW-8	08/20/2012	379 J	<0.70	46.3	<0.25 UJ	0.16	-		-	-

TABLE 4

HISTORICAL MONITORED NATURAL ATTENUATION PARAMETERS
FORMER TEXACO SERVICE STATION 211079
1501 SOUTH CUSHMAN STREET
FAIRBANKS, ALASKA

		MNA PARAMETERS								
Location	*Date*	*Total Alkalinity*	*Alkalinity, phenolphthalein*	*Sulfate*	*Nitrate as Nitrogen*	*Methane*	*Nitrite (as N)*	*Nitrate by Field Measurement*	*Ferrous Iron by Field Measurement*	*Ferrous Iron*
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
ADEC Groundwater Cleanup Levels [a]										
MW-9	07/22/2009	269	-	6.4	<0.25	0.063	-		-	-
MW-9	08/20/2012	281 J / 281 J	<0.70 / <0.70	5.0 / 5.5	<0.25 / 0.38 J	0.033 / 0.033	-		-	-
MW-9	07/27/2013	240	-	7.5	-	0.076	<0.050 J		0.57	<0.015 J
MW-9	01/29/2014	256	-	<1.2	<0.050 J	0.079	<0.050	0.0	0.52	34.0 J
MW-10	07/21/2009	255	-	16.5	0.54	0.083	-		-	-
MW-10	08/20/2012	274 J	<0.70	47.6	2.1	0.062	-		-	-
MW-10	07/27/2013	246	-	33.2	-	0.11	<0.050 J		0.58	<0.015 J
MW-10	01/29/2014	292	-	53.5	0.16 J	0.039	<0.050	0.0	0.25	3.7 J
MW-11	07/21/2009	229	-	13.3	<0.25	0.05	-		-	-
MW-11	08/20/2012	230 J	<0.70	12.6	<0.25	0.033	-		-	-
MW-11	07/27/2013	228	-	16.6	-	0.029	<0.050 J		0.44	<0.015 J
MW-13	08/20/2012	375 J	<0.70	18.6	3.8 J	0.034	-		-	-

Notes and Abbreviations

mg/L = Milligrams per Liter

- = Not Measured/Not Analyzed

<x = Constituent not detected above x milligrams per liter

x / y = Sample Results / Blind Duplicate Results

Appendix A

Site Photos

1. Site

2. MW-1

3. MW-5

4. MW-6

SITE PHOTOS
FORMER TEXACO SERVICE STATION / CHEVRON 211079
1501 SOUTH CUSHMAN STREET
Fairbanks, Alaska

(EM)I:\Chevron\0650--\065003 21-1079 Fairbanks\065003 FIGURES\065003 PHOTOS\065003-EM002-PHOTOS.DWG

Appendix B

Monitoring Data Package

CRA

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Depth to Bottom	Product Thickness	Amount of Product Removed	Casing Diam.	PID	Comments
MW-4	1401	~~13.~~	13.96	21.74	-	-	4"	0.0	
MW-2	1405	—	14.38	22.88	-	-	4"	0.0	
MW-10	1408	—	14.08	16.64	-	-	2"	0.0	
MW-1	1411	—	14.95	19.09	-	-	4"	0.0	Casing needs to be fixed
MW-11	—	—	—	—	-	-	—	—	Could not locate
MW-9	1415	—	13.74	18.11	-	-	2"	0.0	
MW-5	1417	—	14.76	20.31	-	-	4"	0.0	

GAC Filtered Water Volume: 1 **gallons** **Volume logged on *Portable GAC Volume Tracking Log*?** ☒

Project Name: 211079

Project Number: 065003

Field Staff: T. Echtermeyer / D. Bonga

Date: 1-28-14

I:\Denver\FIELD FORMS\FIELD\GWS\GW Monitoring Form.doc

HYDRASLEEVE SAMPLING FORM

SITE ID: 211079 CRA PROJECT NO. 65003 CRA PM: Siobhan Pritchard WELL ID: MW-5
ADDRESS: 1501 S Cushman CITY, STATE: Fairbanks, Alaska STAFF: T. Echtermeyer / D. Bonga

1-28-14	1-29-14	—
PREVIOUS DEPLOY DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	RE-DEPLOY DATE (MM DD YY)

SAMPLER DETAILS

HYDRASLEEVE DEPLOYMENT METHOD ○ SUSPENDED ○ BOTTOM SET ● BOTH SUSPENDED AND BOTTOM SET

DEDICATED WEIGHT(S) yes / no ● TOP WEIGHT ● BOTTOM WEIGHT

DEDICATED TETHER yes / no

DEDICATED SAMPLER yes / no SAMPLER LENGTH ○ 30 inches ● 36 inches

SAMPLER MODIFIED yes / no SAMPLE INTERVAL 36.00 (inches)
(e.g. tied off) (Sample Interval = Depth to water - Depth to top of sampler)

WELL / SAMPLE DETAILS

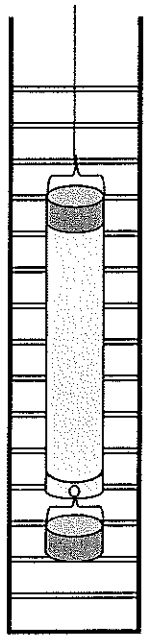
SAMPLE ID	DATE	TIME	ANALYTES / ANALYTIC METHOD
MW-5-012914	1-29-14	1040	GRO by AK101 ● BTEX by 8260B ● MtBE by 8260B ○ BTEX by 8021B ○ HVOCs by 8260B ○ EDB by 8011 ○ 1,2-DCA by 8260B ○ DRO Ak 102 ● MNA ●
DUP-1-012914	1-29-14	—	

DEPTH TO WATER 14.76 (ft)
(Sample interval must lie within well screen.)

LENGTH OF AVAILABLE WATER COLUMN 55.55
(Available water column must be greater than or equal to total length of the sample interval.)

BOTTOM OF SAMPLE INTERVAL 17.76 (ft)
(The top of the sampler prior to collection is the bottom of the sample interval. Must be a minimum of 2.5 inches from the bottom of well.)

DEPTH TO BOTTOM 20.31 (ft)



Time	Temp (°C)	DO (mg/l)	Cond. (mS)	ORP (mv)	pH
1453	-0.20	10.75	0.37	2.5	6.81

SPECIFIC COMMENTS Nitrate 1.9 mg/L Ferrous iron 1.94 mg/L

HYDRASLEEVE SAMPLING FORM

SITE ID: 211079 CRA PROJECT NO. 65003 CRA PM: Siobhan Pritchard WELL ID: MW-2
ADDRESS: 1501 S Cushman CITY, STATE: Fairbanks, Alaska STAFF: T. Echtermeyer / D. Bonga

1-28-14	1-29-14	—
PREVIOUS DEPLOY DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	RE-DEPLOY DATE (MM DD YY)

SAMPLER DETAILS

HYDRASLEEVE DEPLOYMENT METHOD ◉ SUSPENDED ○ BOTTOM SET ○ BOTH SUSPENDED AND BOTTOM SET

DEDICATED WEIGHT(S) yes / no ○ TOP WEIGHT ◉ BOTTOM WEIGHT

DEDICATED TETHER yes / no

DEDICATED SAMPLER yes / no SAMPLER LENGTH ○ 30 inches ◉ 36 inches

SAMPLER MODIFIED yes / no SAMPLE INTERVAL 36.00 (inches)
(e.g. tied off) (Sample Interval = Depth to water - Depth to top of sampler)

WELL / SAMPLE DETAILS

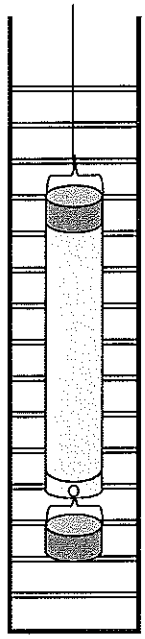
SAMPLE ID	DATE	TIME	ANALYTES / ANALYTIC METHOD
MW-2-012914	1-29-14	1130	GRO by AK101 ◉ BTEX by 8260B ◉ MtBE by 8260B ○ BTEX by 8021B ○ HVOCs by 8260B ○ EDB by 8011 ○ 1,2-DCA by 8260B ○ DRO AK102 ◉ MNA ◉

DEPTH TO WATER 14.38 (ft)
(Sample interval must lie within well screen.)

LENGTH OF AVAILABLE WATER COLUMN 8.5
(Available water column must be greater than or equal to total length of the sample interval.)

BOTTOM OF SAMPLE INTERVAL 17.38 (ft)
(The top of the sampler prior to collection is the bottom of the sample interval. Must be a minimum of 2.5 inches from the bottom of well.)

DEPTH TO BOTTOM 22.88 (ft)



Time	Temp (°C)	DO (mg/l)	Cond. (mS)	ORP (mv)	pH
1435	2.61	10.55	0.067	187.3	~~5.49~~ 6.66

SPECIFIC COMMENTS Nitrate 12.5 mg/L Ferrous Iron 0.33

HYDRASLEEVE SAMPLING FORM

SITE ID: 211079 CRA PROJECT NO. 65003 CRA PM: Siobhan Pritchard WELL ID: MW-4
ADDRESS: 1501 S Cushman CITY, STATE: Fairbanks, Alaska STAFF: T. Echtermeyer / D. Bonga

1-28-14	1-29-14	—
PREVIOUS DEPLOY DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	RE-DEPLOY DATE (MM DD YY)

SAMPLER DETAILS

HYDRASLEEVE DEPLOYMENT METHOD ◉ SUSPENDED ○ BOTTOM SET ○ BOTH SUSPENDED AND BOTTOM SET

DEDICATED WEIGHT(S) yes / no ○ TOP WEIGHT ◉ BOTTOM WEIGHT

DEDICATED TETHER yes / no

DEDICATED SAMPLER yes / no SAMPLER LENGTH ○ 30 inches ◉ 36 inches

SAMPLER MODIFIED yes / no SAMPLE INTERVAL 36.00 (inches)
(e.g. tied off) (Sample Interval = Depth to water - Depth to top of sampler)

WELL / SAMPLE DETAILS

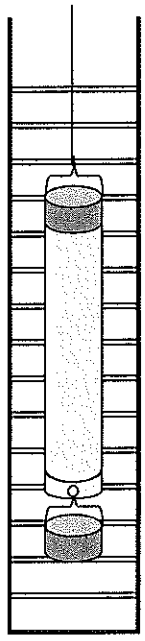
SAMPLE ID	DATE	TIME	ANALYTES / ANALYTIC METHOD
MW-4-012914	1-29-14	1320	GRO by AK101 ◉ BTEX by 8260B ◉ MtBE by 8260B ○ BTEX by 8021B ○ HVOCs by 8260B ○ EDB by 8011 ○ 1,2-DCA by 8260B ○ DRO AK 102 ◉ MNA ◉

DEPTH TO WATER 13.96 (ft)
(Sample interval must lie within well screen.)

LENGTH OF AVAILABLE WATER COLUMN 7.78
(Available water column must be greater than or equal to total length of the sample interval.)

BOTTOM OF SAMPLE INTERVAL 16.96 (ft)
(The top of the sampler prior to collection is the bottom of the sample interval. Must be a minimum of 2.5 inches from the bottom of well.)

DEPTH TO BOTTOM 21.74 (ft)



Time	Temp (°C)	DO (mg/l)	Cond. (mS)	ORP (mv)	PH
1432	4.84	16.54	0.032	187.8	~~3.94~~ 6.72 TE

SPECIFIC COMMENTS Nitrate 5.0 mg/L Ferrous Iron 0.05 mg/L

HYDRASLEEVE SAMPLING FORM

SITE ID: 211079 CRA PROJECT NO. 65003 CRA PM: Siobhan Pritchard WELL ID: MW-10
ADDRESS: 1501 S Cushman CITY, STATE: Fairbanks, Alaska STAFF: T. Echtermeyer / D. Bonga

1-28-14	1-29-14	—
PREVIOUS DEPLOY DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	RE-DEPLOY DATE (MM DD YY)

SAMPLER DETAILS

HYDRASLEEVE DEPLOYMENT METHOD ○ SUSPENDED ● BOTTOM SET ○ BOTH SUSPENDED AND BOTTOM SET

DEDICATED WEIGHT(S) yes / ~~no~~ ● TOP WEIGHT ● BOTTOM WEIGHT

DEDICATED TETHER yes / no

DEDICATED SAMPLER yes / no SAMPLER LENGTH ● 30 inches ✕ 36 inches

SAMPLER MODIFIED yes / no SAMPLE INTERVAL 30.00 (inches)
(e.g. tied off) (Sample Interval = Depth to water - Depth to top of sampler)

WELL / SAMPLE DETAILS

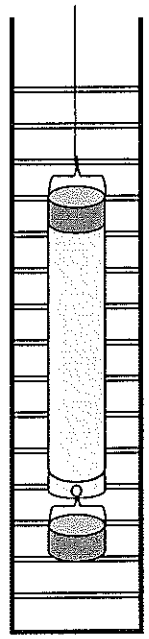
SAMPLE ID	DATE	TIME	ANALYTES / ANALYTIC METHOD		
MW-10-012914	1-29-14	1400	~~GRO by AK101~~ ●	BTEX by 8260B ●	MtBE by 8260B ○
			BTEX by 8021B ○	HVOCs by 8260B ○	EDB by 8011 ○
					1,2-DCA by 8260B ○
					DRO AK102 ●
					MNA ●

DEPTH TO WATER 14.08 (ft)
(Sample interval must lie within well screen.)

LENGTH OF AVAILABLE WATER COLUMN 25.6
(Available water column must be greater than or equal to total length of the sample interval.)

BOTTOM OF SAMPLE INTERVAL 18.64 (ft)
(The top of the sampler prior to collection is the bottom of the sample interval. Must be a minimum of 2.5 inches from the bottom of well.)

DEPTH TO BOTTOM 16.64 (ft)



Time	Temp (°C)	DO (mg/l)	Cond. (mS)	ORP (mv)	pH
1440	0.76	19.18	0.020	103.5	~~6.07~~ 6.97 TE

SPECIFIC COMMENTS Nitrate 0.0 mg/L Ferrous Iron 0.25 mg/L

HYDRASLEEVE SAMPLING FORM

SITE ID: 211079 CRA PROJECT NO. 65003 CRA PM: Siobhan Pritchard WELL ID: MW-9
ADDRESS: 1501 S Cushman CITY, STATE: Fairbanks, Alaska STAFF: T. Echtermeyer / D. Bonga

1-28-14	1-29-14	—
PREVIOUS DEPLOY DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	RE-DEPLOY DATE (MM DD YY)

SAMPLER DETAILS

HYDRASLEEVE DEPLOYMENT METHOD ○ SUSPENDED ○ BOTTOM SET ◉ BOTH SUSPENDED AND BOTTOM SET

DEDICATED WEIGHT(S) yes / no ◉ TOP WEIGHT ◉ BOTTOM WEIGHT

DEDICATED TETHER yes / no

DEDICATED SAMPLER yes / no SAMPLER LENGTH ○ 30 inches ◉ 36 inches

SAMPLER MODIFIED yes / no SAMPLE INTERVAL 36.60 (inches)
(e.g. tied off) (Sample Interval = Depth to water - Depth to top of sampler)

WELL / SAMPLE DETAILS

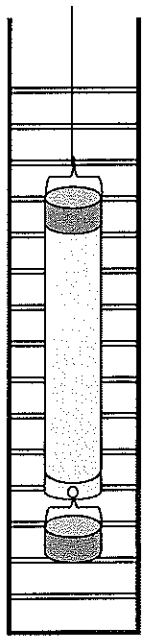
SAMPLE ID	DATE	TIME	ANALYTES / ANALYTIC METHOD
MW-9-012914	1-29-14	1440	GRO by AK101 ◉ BTEX by 8260B ◉ MtBE by 8260B ○ BTEX by 8021B ○ HVOCs by 8260B ○ EDB by 8011 ○ 1,2-DCA by 8260B ○ DRO AK102 ◉ MNA ◉

DEPTH TO WATER 13.74 (ft)
(Sample interval must lie within well screen.)

LENGTH OF AVAILABLE WATER COLUMN 4.37
(Available water column must be greater than or equal to total length of the sample interval.)

BOTTOM OF SAMPLE INTERVAL 17.74 (ft)
(The top of the sampler prior to collection is the bottom of the sample interval. Must be a minimum of 2.5 inches from the bottom of well.)

DEPTH TO BOTTOM 18.11 (ft)



Time	Temp (°C)	DO (mg/l)	Cond. (mS)	ORP (mv)	pH
~~0.46~~ 14:48	0.16	16.58	0.006	26.7	~~7.42~~ 6.95 TE

SPECIFIC COMMENTS ~~[illegible]~~ Nitrate 0.0 mg/L Ferrous Iron 0.52 mg/L

HYDRASLEEVE SAMPLING FORM

SITE ID: 211079 CRA PROJECT NO. 65003 CRA PM: Siobhan Pritchard WELL ID: MW-1
ADDRESS: 1501 S Cushman CITY, STATE: Fairbanks, Alaska STAFF: T. Echtermeyer / D. Bonga

1-28-14	1-29-14	—
PREVIOUS DEPLOY DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	RE-DEPLOY DATE (MM DD YY)

SAMPLER DETAILS

HYDRASLEEVE DEPLOYMENT METHOD ○ SUSPENDED ○ BOTTOM SET ● BOTH SUSPENDED AND BOTTOM SET

DEDICATED WEIGHT(S) yes / no ● TOP WEIGHT ● BOTTOM WEIGHT

DEDICATED TETHER yes / no

DEDICATED SAMPLER yes / no SAMPLER LENGTH ○ 30 inches ● 36 inches

SAMPLER MODIFIED yes / no SAMPLE INTERVAL 36.00 (inches)
(e.g. tied off) (Sample Interval = Depth to water - Depth to top of sampler)

WELL / SAMPLE DETAILS

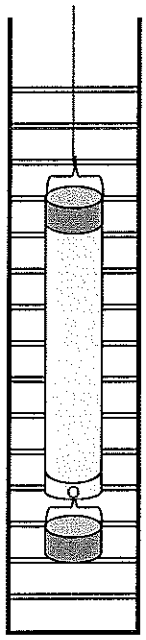
SAMPLE ID	DATE	TIME	ANALYTES / ANALYTIC METHOD
MW-1-012914	1-29-14	1520	GRO by AK101 ● BTEX by 8260B ● MtBE by 8260B ○ BTEX by 8021B ○ HVOCs by 8260B ○ EDB by 8011 ○ 1,2-DCA by 8260B ○ DRO AK102 ● MNA ●

DEPTH TO WATER 14.95 (ft)
(Sample interval must lie within well screen.)

LENGTH OF AVAILABLE WATER COLUMN 4.14
(Available water column must be greater than or equal to total length of the sample interval.)

BOTTOM OF SAMPLE INTERVAL 17.95 (ft)
(The top of the sampler prior to collection is the bottom of the sample interval. Must be a minimum of 2.5 inches from the bottom of well.)

DEPTH TO BOTTOM 19.09 (ft)



Time	Temp (°C)	DO (mg/l)	Cond. (mS)	ORP (mv)	pH
1424	0.13	19.00	0.014	35.4	~~5.65~~ 6.92 TE

SPECIFIC COMMENTS Nitrate 3.3 mg/L Ferrous Iron 0.20 mg/L

Appendix C

Standard Operating Procedures for Groundwater Monitoring and Sampling

CONESTOGA-ROVERS
& ASSOCIATES

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. Conestoga-Rovers & Associates' specific field procedures are summarized below.

Groundwater Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain separate phase hydrocarbons (SPH) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of SPH, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be monitored last. In wells with a history of SPH, the SPH level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Sampling

Purge Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of SPH or floating SPH globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no SPH is present. Wells shall be purged either by hand using a disposal or PVC bailer or by using an aboveground pump (e.g. peristaltic or Wattera™) or down-hole pump (e.g. Grundfos™ or DC Purger pump).

Groundwater wells shall be purged approximately three to ten well-casing volumes (depending on the regulatory agency requirements) or until a minimum of three groundwater parameters have stabilized for three consecutive readings. Temperature, dissolved oxygen (DO), pH, conductivity, and oxidation-reduction potential (ORP) shall be measured and recorded. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, turbidity shall also be measured prior to collection of each groundwater sample.

Groundwater samples shall be collected after the well has been purged and allowed to recharge to 80% of the pre-purging static water level, or if the well is slow to recharge, after waiting a minimum of 2 hours. Groundwater samples shall be collected using clean disposable bailers or

pumps (if an operating remediation system exists on site and the project manager approves of its use for sampling) and shall be decanted into clean containers supplied by the analytical laboratory. New nitrile gloves and disposable tubing or bailers shall be used for sampling each well. If a PVC bailer or down-hole pump is used for groundwater purging, it shall be decontaminated before purging each well by using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

No Purge Sampling
Groundwater samples shall be collected using clean disposable bailers (PVC or Teflon) and decanted into clean containers supplied by the analytical laboratory. New nitrile gloves shall be used for sampling each well.

HydraSleeve Sampling
HydraSleeve sampling devices shall be deployed a minimum of 24 hours prior to sampling to allow for equilibration and stabilization.

For wells without a previously deployed HydraSleeve sampling device, the groundwater monitoring SOP shall be followed to determine water column length. For wells with a previously deployed HydraSleeve sampling device, the depth to groundwater shall be measured prior to HydraSleeve removal. The depth to well bottom shall be measured prior to new HydraSleeve deployment.

The top of the HydraSleeve sampling device shall be set no more than 3 feet below static groundwater level. If the length of the water column does not allow for this, a top weight bottom set will be employed. Groundwater samples collected using clean disposable HydraSleeve sampling devices will be decanted into clean containers supplied by the analytical laboratory. New nitrile gloves and HydraSleeve sampling devices will be used for sampling each well.

Following sampling, a new HydraSleeve sampling device shall be deployed for the next sampling event if applicable.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. One copy of the COC shall be kept in the QA/QC file and another copy shall be retained in the project file. Information on the COC shall consist of the project name and

number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Well Development

Wells shall be developed using a combination of groundwater surging and extraction. A surge block shall be used to swab the well and agitate the groundwater in order to dislodge any fine sediment from the sand pack. After approximately ten minutes of swabbing the well, groundwater shall be extracted from the well using a bailer, pump and/or reverse air-lifting through a pipe to remove the sediments from the well. Alternating surging and extraction shall continue until the sediment volume in the groundwater (i.e. turbidity) is negligible, which typically requires extraction of approximately ten well-casing volumes of groundwater. Preliminary well development usually is performed during well installation prior to placing the sanitary surface seal to ensure sand pack stabilization. Well development that is performed after surface seal installation, should occur 72 hours after seal installation to ensure that the cement has had adequate time to set.

Waste Handling and Disposal

Groundwater extracted during development and sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums. Each drum shall be labeled with the contents, date of generation, generator identification and consultant contact. If hydrocarbon concentrations in the purged groundwater are below ADEC cleanup levels or the site is in a remote area (pending ADEC approval) groundwater will be discharged to the ground surface, at least 100 feet from the nearest surface water body.

Appendix D

Laboratory Analytical Report

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 18, 2014

Conestoga-Rovers Association

14998 W. 6th Ave
Golden, CO 80401

RE: Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Dear Conestoga-Rovers Association:
Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report, REV-1 03/18/14. Updated SCUR to have initials and date for incorrect year crossed out.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Chevron-EDDs, Conestoga-Rovers Association
ChevronGWRT, Conestoga-Rovers Association
Jeffrey Cloud, Conestoga-Rovers Association
Sarah Gillette, Conestoga-Rovers Association
Nick Greco, Conestoga-Rovers Association
Siobhan Pritchard, Conestoga-Rovers Association

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #40770
Alabama Certification #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #: Pace
Georgia Certification #: 959
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nebraska Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
Wisconsin Certification #: 999407970
West Virginia Certification #: 382
West Virginia TO-15 Approval
West Virginia DHHR #:9952C

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10256484001	**MW-1-012914**	Water	01/29/14 15:20	01/31/14 09:54
10256484002	**MW-2-012914**	Water	01/29/14 11:30	01/31/14 09:54
10256484003	**MW-4-012914**	Water	01/29/14 13:20	01/31/14 09:54
10256484004	**MW-5-012914**	Water	01/29/14 12:40	01/31/14 09:54
10256484005	**MW-9-012914**	Water	01/29/14 14:40	01/31/14 09:54
10256484006	**MW-10-012914**	Water	01/29/14 14:10	01/31/14 09:54
10256484007	**DUP-1-012914**	Water	01/29/14 00:00	01/31/14 09:54
10256484008	**TRIP BLANK-1-012914**	Water	01/29/14 00:00	01/31/14 09:54

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SAMPLE ANALYTE COUNT

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10256484001	**MW-1-012914**	RSK 175	DL1	1	PASI-M
		Alaska 102/103	MT	3	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 2320B	PH1	1	PASI-M
		SM 3500-Fe B#4	JML	1	PASI-K
		SM 4500-NO3 H	PH1	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10256484002	**MW-2-012914**	RSK 175	DL1	1	PASI-M
		Alaska 102/103	JRH	3	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 2320B	PH1	1	PASI-M
		SM 3500-Fe B#4	JML	1	PASI-K
		SM 4500-NO3 H	PH1	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10256484003	**MW-4-012914**	RSK 175	DL1	1	PASI-M
		Alaska 102/103	MT	3	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 2320B	PH1	1	PASI-M
		SM 3500-Fe B#4	JML	1	PASI-K
		SM 4500-NO3 H	PH1	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10256484004	**MW-5-012914**	RSK 175	DL1	1	PASI-M
		Alaska 102/103	MT	3	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 2320B	PH1	1	PASI-M
		SM 3500-Fe B#4	JML	1	PASI-K
		SM 4500-NO3 H	PH1	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10256484005	**MW-9-012914**	RSK 175	DL1	1	PASI-M

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Alaska 102/103	MT	3	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 2320B	PH1	1	PASI-M
		SM 3500-Fe B#4	JML	1	PASI-K
		SM 4500-NO3 H	PH1	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10256484006	**MW-10-012914**	RSK 175	DL1	1	PASI-M
		Alaska 102/103	MT	3	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 2320B	PH1	1	PASI-M
		SM 3500-Fe B#4	JML	1	PASI-K
		SM 4500-NO3 H	PH1	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10256484007	**DUP-1-012914**	RSK 175	DL1	1	PASI-M
		Alaska 102/103	MT	3	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 2320B	PH1	1	PASI-M
		SM 3500-Fe B#4	JML	1	PASI-K
		SM 4500-NO3 H	PH1	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10256484008	**TRIP BLANK-1-012914**	Alaska 101	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: CRA_Chevron
Date: March 18, 2014

General Information:
7 samples were analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: CRA_Chevron
Date: March 18, 2014

General Information:
7 samples were analyzed for Alaska 102/103. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/12797

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/24291

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1619004)
  - DRO by AK 102
- DUP-1-012914 (Lab ID: 10256484007)
  - DRO by AK 102
- LCS (Lab ID: 1619005)
  - DRO by AK 102
- LCSD (Lab ID: 1619006)
  - DRO by AK 102

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: CRA_Chevron
Date: March 18, 2014

Analyte Comments:

QC Batch: OEXT/24291

N2: The lab does not hold TNI accreditation for this parameter.

- MW-1-012914 (Lab ID: 10256484001)
  - DRO by AK 102
- MW-10-012914 (Lab ID: 10256484006)
  - DRO by AK 102
- MW-2-012914 (Lab ID: 10256484002)
  - DRO by AK 102
- MW-4-012914 (Lab ID: 10256484003)
  - DRO by AK 102
- MW-5-012914 (Lab ID: 10256484004)
  - DRO by AK 102
- MW-9-012914 (Lab ID: 10256484005)
  - DRO by AK 102

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **Alaska 101**
Description: AK101 GCV
Client: CRA_Chevron
Date: March 18, 2014

General Information:
8 samples were analyzed for Alaska 101. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/11650

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10256484001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1622036)
  - AK101 Gasoline Range Organics

QC Batch: GCV/11676

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **Alaska 101**
Description: AK101 GCV
Client: CRA_Chevron
Date: March 18, 2014

Analyte Comments:

QC Batch: GCV/11650

1M: Surrogate recovery outside laboratory control limits due to matrix interferences.

- DUP-1-012914 (Lab ID: 10256484007)
  - a,a,a-Trifluorotoluene (S)
- MW-5-012914 (Lab ID: 10256484004)
  - a,a,a-Trifluorotoluene (S)

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1618831)
  - AK101 Gasoline Range Organics
- DUP (Lab ID: 1622037)
  - AK101 Gasoline Range Organics
- DUP-1-012914 (Lab ID: 10256484007)
  - AK101 Gasoline Range Organics
- LCS (Lab ID: 1618832)
  - AK101 Gasoline Range Organics
- LCSD (Lab ID: 1618833)
  - AK101 Gasoline Range Organics
- MS (Lab ID: 1622036)
  - AK101 Gasoline Range Organics
- MW-1-012914 (Lab ID: 10256484001)
  - AK101 Gasoline Range Organics
- MW-2-012914 (Lab ID: 10256484002)
  - AK101 Gasoline Range Organics
- MW-4-012914 (Lab ID: 10256484003)
  - AK101 Gasoline Range Organics
- MW-5-012914 (Lab ID: 10256484004)
  - AK101 Gasoline Range Organics
- MW-9-012914 (Lab ID: 10256484005)
  - AK101 Gasoline Range Organics
- TRIP BLANK-1-012914 (Lab ID: 10256484008)
  - AK101 Gasoline Range Organics

QC Batch: GCV/11676

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1623463)
  - AK101 Gasoline Range Organics
- LCS (Lab ID: 1623464)
  - AK101 Gasoline Range Organics
- LCSD (Lab ID: 1623465)
  - AK101 Gasoline Range Organics
- MW-10-012914 (Lab ID: 10256484006)
  - AK101 Gasoline Range Organics

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **EPA 8260**
Description: 8260 MSV UST
Client: CRA_Chevron
Date: March 18, 2014

General Information:
8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/26278

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP-1-012914 (Lab ID: 10256484007)
  - 1,2-Dichloroethane-d4 (S)
- MS (Lab ID: 1618956)
  - 1,2-Dichloroethane-d4 (S)
- MSD (Lab ID: 1618957)
  - 1,2-Dichloroethane-d4 (S)
- MW-9-012914 (Lab ID: 10256484005)
  - 1,2-Dichloroethane-d4 (S)

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: CRA_Chevron
Date: March 18, 2014

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: CRA_Chevron
Date: March 18, 2014

General Information:
7 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- DUP-1-012914 (Lab ID: 10256484007)
- MW-1-012914 (Lab ID: 10256484001)
- MW-10-012914 (Lab ID: 10256484006)
- MW-2-012914 (Lab ID: 10256484002)
- MW-4-012914 (Lab ID: 10256484003)
- MW-5-012914 (Lab ID: 10256484004)
- MW-9-012914 (Lab ID: 10256484005)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **SM 4500-NO3 H**
Description: SM4500NO3-H, NO2 + NO3 pres.
Client: CRA_Chevron
Date: March 18, 2014

General Information:
7 samples were analyzed for SM 4500-NO3 H. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/17262

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10256331002,10256484006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1618479)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 1618481)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 1618480)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 1618482)
  - Nitrogen, NO2 plus NO3

Additional Comments:

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **ASTM D516**
Description: ASTM D516 Sulfate Water
Client: CRA_Chevron
Date: March 18, 2014

General Information:
7 samples were analyzed for ASTM D516. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Method: **SM 4500-NO2 B**
Description: SM4500NO2-B, Nitrite, unpres
Client: CRA_Chevron
Date: March 18, 2014

General Information:
7 samples were analyzed for SM 4500-NO2 B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- MW-4-012914 (Lab ID: 10256484003)
- MW-5-012914 (Lab ID: 10256484004)

H3: Sample was received or analysis requested beyond the recognized method holding time.
- DUP-1-012914 (Lab ID: 10256484007)
- MW-2-012914 (Lab ID: 10256484002)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/17252

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10256439001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1618027)
  - Nitrite as N
- MSD (Lab ID: 1618028)
  - Nitrite as N

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Sample: MW-1-012914 **Lab ID: 10256484001** Collected: 01/29/14 15:20 Received: 01/31/14 09:54 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**0.0042J**	mg/L	0.0066	0.0033	1		02/03/14 14:47	74-82-8	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510								
DRO by AK 102	**<0.20**	mg/L	0.40	0.20	1	02/04/14 09:24	02/06/14 14:38		N2
Surrogates									
o-Terphenyl (S)	65	%.	50-150		1	02/04/14 09:24	02/06/14 14:38	84-15-1	
n-Triacontane (S)	71	%.	50-150		1	02/04/14 09:24	02/06/14 14:38	638-68-6	
AK101 GCV	Analytical Method: Alaska 101								
AK101 Gasoline Range Organics	**<0.050**	mg/L	0.10	0.050	1		02/06/14 17:41		N2
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%.	60-120		1		02/06/14 17:41	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.00024**	mg/L	0.0010	0.00024	1		02/03/14 13:31	71-43-2	
Ethylbenzene	**<0.00024**	mg/L	0.0010	0.00024	1		02/03/14 13:31	100-41-4	
Toluene	**<0.00023**	mg/L	0.0010	0.00023	1		02/03/14 13:31	108-88-3	
Xylene (Total)	**<0.00072**	mg/L	0.0030	0.00072	1		02/03/14 13:31	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-125		1		02/03/14 13:31	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1		02/03/14 13:31	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1		02/03/14 13:31	460-00-4	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**234**	mg/L	5.0	2.5	1		02/07/14 12:14		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4								
Iron, Ferrous	**0.13J**	mg/L	0.20	0.018	1		02/02/14 10:42		H6
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**1.0**	mg/L	0.10	0.050	1		02/03/14 12:11	14797-55-8	
Nitrogen, NO2 plus NO3	**1.0**	mg/L	0.10	0.050	1		02/03/14 12:11		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**17.3**	mg/L	2.5	1.2	1		02/07/14 13:54	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.050**	mg/L	0.10	0.050	1		01/31/14 13:35	14797-65-0	

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ANALYTICAL RESULTS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Sample: MW-2-012914 **Lab ID: 10256484002** Collected: 01/29/14 11:30 Received: 01/31/14 09:54 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**0.013**	mg/L	0.0066	0.0033	1		02/03/14 15:29	74-82-8	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510								
DRO by AK 102	**1.2**	mg/L	0.40	0.20	1	02/04/14 09:24	02/07/14 17:10		N2
Surrogates									
o-Terphenyl (S)	94	%.	50-150		1	02/04/14 09:24	02/07/14 17:10	84-15-1	
n-Triacontane (S)	102	%.	50-150		1	02/04/14 09:24	02/07/14 17:10	638-68-6	
AK101 GCV	Analytical Method: Alaska 101								
AK101 Gasoline Range Organics	**<0.050**	mg/L	0.10	0.050	1		02/06/14 15:41		N2
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	60-120		1		02/06/14 15:41	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**0.00063J**	mg/L	0.0010	0.00024	1		02/03/14 13:47	71-43-2	
Ethylbenzene	**<0.00024**	mg/L	0.0010	0.00024	1		02/03/14 13:47	100-41-4	
Toluene	**<0.00023**	mg/L	0.0010	0.00023	1		02/03/14 13:47	108-88-3	
Xylene (Total)	**0.0038**	mg/L	0.0030	0.00072	1		02/03/14 13:47	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	75-125		1		02/03/14 13:47	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1		02/03/14 13:47	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		02/03/14 13:47	460-00-4	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**468**	mg/L	5.0	2.5	1		02/07/14 12:18		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4								
Iron, Ferrous	**0.086J**	mg/L	0.20	0.018	1		02/02/14 10:36		H6
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**0.87**	mg/L	0.10	0.050	1		02/03/14 12:11	14797-55-8	
Nitrogen, NO2 plus NO3	**0.87**	mg/L	0.10	0.050	1		02/03/14 12:11		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**85.0**	mg/L	12.5	6.2	5		02/07/14 14:12	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.050**	mg/L	0.10	0.050	1		01/31/14 13:35	14797-65-0	H3

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ANALYTICAL RESULTS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Sample: MW-4-012914 **Lab ID: 10256484003** Collected: 01/29/14 13:20 Received: 01/31/14 09:54 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**<0.0033**	mg/L	0.0066	0.0033	1		02/03/14 15:38	74-82-8	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510								
DRO by AK 102	**0.46**	mg/L	0.40	0.20	1	02/04/14 09:24	02/06/14 15:43		N2
Surrogates									
o-Terphenyl (S)	89	%.	50-150		1	02/04/14 09:24	02/06/14 15:43	84-15-1	
n-Triacontane (S)	97	%.	50-150		1	02/04/14 09:24	02/06/14 15:43	638-68-6	
AK101 GCV	Analytical Method: Alaska 101								
AK101 Gasoline Range Organics	**<0.050**	mg/L	0.10	0.050	1		02/06/14 16:01		N2
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	60-120		1		02/06/14 16:01	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.00024**	mg/L	0.0010	0.00024	1		02/03/14 14:03	71-43-2	
Ethylbenzene	**<0.00024**	mg/L	0.0010	0.00024	1		02/03/14 14:03	100-41-4	
Toluene	**<0.00023**	mg/L	0.0010	0.00023	1		02/03/14 14:03	108-88-3	
Xylene (Total)	**<0.00072**	mg/L	0.0030	0.00072	1		02/03/14 14:03	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-125		1		02/03/14 14:03	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1		02/03/14 14:03	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		02/03/14 14:03	460-00-4	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**256**	mg/L	5.0	2.5	1		02/07/14 12:22		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4								
Iron, Ferrous	**<0.018**	mg/L	0.20	0.018	1		02/02/14 10:38		H6
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**1.8**	mg/L	0.10	0.050	1		02/03/14 12:14	14797-55-8	
Nitrogen, NO2 plus NO3	**1.8**	mg/L	0.10	0.050	1		02/03/14 12:14		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**29.5**	mg/L	2.5	1.2	1		02/07/14 13:54	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.050**	mg/L	0.10	0.050	1		01/31/14 13:35	14797-65-0	H1

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ANALYTICAL RESULTS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Sample: MW-5-012914 **Lab ID: 10256484004** Collected: 01/29/14 12:40 Received: 01/31/14 09:54 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**0.026**	mg/L	0.0066	0.0033	1		02/03/14 15:47	74-82-8	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510								
DRO by AK 102	**4.0**	mg/L	0.40	0.20	1	02/04/14 09:24	02/06/14 16:05		N2
Surrogates									
o-Terphenyl (S)	89	%.	50-150		1	02/04/14 09:24	02/06/14 16:05	84-15-1	
n-Triacontane (S)	99	%.	50-150		1	02/04/14 09:24	02/06/14 16:05	638-68-6	
AK101 GCV	Analytical Method: Alaska 101								
AK101 Gasoline Range Organics	**3.0**	mg/L	0.50	0.25	5		02/06/14 16:21		N2
Surrogates									
a,a,a-Trifluorotoluene (S)	121	%.	60-120		5		02/06/14 16:21	98-08-8	1M
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**0.00080J**	mg/L	0.0010	0.00024	1		02/03/14 14:19	71-43-2	
Ethylbenzene	**0.0012**	mg/L	0.0010	0.00024	1		02/03/14 14:19	100-41-4	
Toluene	**0.00036J**	mg/L	0.0010	0.00023	1		02/03/14 14:19	108-88-3	
Xylene (Total)	**0.0055**	mg/L	0.0030	0.00072	1		02/03/14 14:19	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	75-125		1		02/03/14 14:19	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1		02/03/14 14:19	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1		02/03/14 14:19	460-00-4	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**250**	mg/L	5.0	2.5	1		02/07/14 12:26		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4								
Iron, Ferrous	**40.6**	mg/L	2.0	0.18	10		02/02/14 10:37		H6
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**<0.050**	mg/L	0.10	0.050	1		02/03/14 12:14	14797-55-8	
Nitrogen, NO2 plus NO3	**<0.050**	mg/L	0.10	0.050	1		02/03/14 12:14		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**9.6**	mg/L	2.5	1.2	1		02/07/14 13:54	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.050**	mg/L	0.10	0.050	1		01/31/14 13:35	14797-65-0	H1

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ANALYTICAL RESULTS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Sample: MW-9-012914 **Lab ID: 10256484005** Collected: 01/29/14 14:40 Received: 01/31/14 09:54 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**0.079**	mg/L	0.0066	0.0033	1		02/03/14 16:25	74-82-8	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510								
DRO by AK 102	**1.6**	mg/L	0.40	0.20	1	02/04/14 09:24	02/06/14 16:26		N2
Surrogates									
o-Terphenyl (S)	88	%.	50-150		1	02/04/14 09:24	02/06/14 16:26	84-15-1	
n-Triacontane (S)	98	%.	50-150		1	02/04/14 09:24	02/06/14 16:26	638-68-6	
AK101 GCV	Analytical Method: Alaska 101								
AK101 Gasoline Range Organics	**5.0**	mg/L	0.50	0.25	5		02/06/14 17:01		N2
Surrogates									
a,a,a-Trifluorotoluene (S)	114	%.	60-120		5		02/06/14 17:01	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.0024**	mg/L	0.010	0.0024	10		02/05/14 04:22	71-43-2	
Ethylbenzene	**0.14**	mg/L	0.010	0.0024	10		02/05/14 04:22	100-41-4	
Toluene	**0.0047J**	mg/L	0.010	0.0023	10		02/05/14 04:22	108-88-3	
Xylene (Total)	**0.59**	mg/L	0.030	0.0072	10		02/05/14 04:22	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%.	75-125		10		02/05/14 04:22	17060-07-0	D3
Toluene-d8 (S)	101	%.	75-125		10		02/05/14 04:22	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		10		02/05/14 04:22	460-00-4	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**256**	mg/L	5.0	2.5	1		02/07/14 12:29		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4								
Iron, Ferrous	**34.0**	mg/L	2.0	0.18	10		02/02/14 10:40		H6
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**<0.050**	mg/L	0.10	0.050	1		02/03/14 12:15	14797-55-8	
Nitrogen, NO2 plus NO3	**<0.050**	mg/L	0.10	0.050	1		02/03/14 12:15		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**<1.2**	mg/L	2.5	1.2	1		02/07/14 13:55	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.050**	mg/L	0.10	0.050	1		01/31/14 13:35	14797-65-0	

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ANALYTICAL RESULTS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Sample: MW-10-012914 **Lab ID: 10256484006** Collected: 01/29/14 14:10 Received: 01/31/14 09:54 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**0.039**	mg/L	0.0066	0.0033	1		02/03/14 16:36	74-82-8	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510								
DRO by AK 102	**0.47**	mg/L	0.40	0.20	1	02/04/14 09:24	02/06/14 14:16		N2
Surrogates									
o-Terphenyl (S)	65	%.	50-150		1	02/04/14 09:24	02/06/14 14:16	84-15-1	
n-Triacontane (S)	70	%.	50-150		1	02/04/14 09:24	02/06/14 14:16	638-68-6	
AK101 GCV	Analytical Method: Alaska 101								
AK101 Gasoline Range Organics	**0.094J**	mg/L	0.10	0.050	1		02/04/14 21:53		N2
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%.	60-120		1		02/04/14 21:53	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.00024**	mg/L	0.0010	0.00024	1		02/05/14 03:51	71-43-2	
Ethylbenzene	**0.0065**	mg/L	0.0010	0.00024	1		02/05/14 03:51	100-41-4	
Toluene	**<0.00023**	mg/L	0.0010	0.00023	1		02/05/14 03:51	108-88-3	
Xylene (Total)	**<0.00072**	mg/L	0.0030	0.00072	1		02/05/14 03:51	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%.	75-125		1		02/05/14 03:51	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1		02/05/14 03:51	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1		02/05/14 03:51	460-00-4	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**292**	mg/L	5.0	2.5	1		02/07/14 12:33		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4								
Iron, Ferrous	**3.7**	mg/L	0.20	0.018	1		02/02/14 10:47		H6
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**0.16**	mg/L	0.10	0.050	1		02/03/14 12:16	14797-55-8	
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	0.050	1		02/03/14 12:16		M1
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**53.5**	mg/L	5.0	2.5	2		02/07/14 14:04	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.050**	mg/L	0.10	0.050	1		01/31/14 13:37	14797-65-0	

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ANALYTICAL RESULTS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Sample: DUP-1-012914 **Lab ID: 10256484007** Collected: 01/29/14 00:00 Received: 01/31/14 09:54 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**0.024**	mg/L	0.0066	0.0033	1		02/03/14 16:46	74-82-8	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510								
DRO by AK 102	**2.2**	mg/L	0.40	0.20	1	02/04/14 09:24	02/06/14 15:00		N2
Surrogates									
o-Terphenyl (S)	50	%.	50-150		1	02/04/14 09:24	02/06/14 15:00	84-15-1	
n-Triacontane (S)	51	%.	50-150		1	02/04/14 09:24	02/06/14 15:00	638-68-6	
AK101 GCV	Analytical Method: Alaska 101								
AK101 Gasoline Range Organics	**3.0**	mg/L	0.50	0.25	5		02/06/14 16:41		N2
Surrogates									
a,a,a-Trifluorotoluene (S)	123	%.	60-120		5		02/06/14 16:41	98-08-8	1M
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.0024**	mg/L	0.010	0.0024	10		02/05/14 04:37	71-43-2	
Ethylbenzene	**<0.0024**	mg/L	0.010	0.0024	10		02/05/14 04:37	100-41-4	
Toluene	**<0.0023**	mg/L	0.010	0.0023	10		02/05/14 04:37	108-88-3	
Xylene (Total)	**<0.0072**	mg/L	0.030	0.0072	10		02/05/14 04:37	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%.	75-125		10		02/05/14 04:37	17060-07-0	D3
Toluene-d8 (S)	101	%.	75-125		10		02/05/14 04:37	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		10		02/05/14 04:37	460-00-4	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**243**	mg/L	5.0	2.5	1		02/07/14 12:37		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4								
Iron, Ferrous	**53.0**	mg/L	4.0	0.37	20		02/02/14 10:34		H6
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**0.052J**	mg/L	0.10	0.050	1		02/03/14 12:20	14797-55-8	
Nitrogen, NO2 plus NO3	**0.052J**	mg/L	0.10	0.050	1		02/03/14 12:20		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**8.9**	mg/L	2.5	1.2	1		02/07/14 13:56	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.050**	mg/L	0.10	0.050	1		01/31/14 13:37	14797-65-0	H3

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ANALYTICAL RESULTS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Sample: TRIP BLANK-1-012914 **Lab ID: 10256484008** Collected: 01/29/14 00:00 Received: 01/31/14 09:54 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
AK101 GCV	Analytical Method: Alaska 101								
AK101 Gasoline Range Organics	**<0.050**	mg/L	0.10	0.050	1		02/06/14 15:21		N2
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%.	60-120		1		02/06/14 15:21	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.00024**	mg/L	0.0010	0.00024	1		02/03/14 10:38	71-43-2	
Ethylbenzene	**<0.00024**	mg/L	0.0010	0.00024	1		02/03/14 10:38	100-41-4	
Toluene	**<0.00023**	mg/L	0.0010	0.00023	1		02/03/14 10:38	108-88-3	
Xylene (Total)	**<0.00072**	mg/L	0.0030	0.00072	1		02/03/14 10:38	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		02/03/14 10:38	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1		02/03/14 10:38	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125		1		02/03/14 10:38	460-00-4	

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: AIR/19339 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

METHOD BLANK: 1618730 Matrix: Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	mg/L	<0.0033	0.0066	02/03/14 09:41	

LABORATORY CONTROL SAMPLE & LCSD: 1618731 1618732

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	mg/L	.061	0.057	0.056	94	92	85-115	2	20	

SAMPLE DUPLICATE: 1618733

Parameter	Units	5092816001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	mg/L	ND	<0.0033		20	

SAMPLE DUPLICATE: 1618734

Parameter	Units	10256484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	mg/L	0.0042J	0.0038J		20	

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: GCV/11650 — Analysis Method: Alaska 101
QC Batch Method: Alaska 101 — Analysis Description: AK101W GCV Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484007, 10256484008

METHOD BLANK: 1618831 — Matrix: Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484007, 10256484008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	mg/L	<0.050	0.10	02/06/14 15:01	N2
a,a,a-Trifluorotoluene (S)	%.	93	60-120	02/06/14 15:01	

LABORATORY CONTROL SAMPLE & LCSD: 1618832 1618833

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	mg/L	1	1.1	1.1	109	108	60-120	.9	20	N2
a,a,a-Trifluorotoluene (S)	%.				108	108	60-120			

MATRIX SPIKE SAMPLE: 1622036

Parameter	Units	10256484001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
AK101 Gasoline Range Organics	mg/L	<0.050	1	1.3	131	70-130	M1,N2
a,a,a-Trifluorotoluene (S)	%.				120	60-120	

SAMPLE DUPLICATE: 1622037

Parameter	Units	10256484005 Result	Dup Result	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	mg/L	5.0	4.9	3	30	N2
a,a,a-Trifluorotoluene (S)	%.	114	112	1		

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: GCV/11676 | Analysis Method: Alaska 101
QC Batch Method: Alaska 101 | Analysis Description: AK101W GCV Water
Associated Lab Samples: 10256484006

METHOD BLANK: 1623463 | Matrix: Water
Associated Lab Samples: 10256484006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	mg/L	<0.050	0.10	02/04/14 20:53	N2
a,a,a-Trifluorotoluene (S)	%.	92	60-120	02/04/14 20:53	

LABORATORY CONTROL SAMPLE & LCSD: 1623464 1623465

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	mg/L	1	0.90	0.76	90	76	60-120	17	20	N2
a,a,a-Trifluorotoluene (S)	%.				108	98	60-120			

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: MSV/26264 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484008

METHOD BLANK: 1618460 — Matrix: Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/L	<0.00024	0.0010	02/03/14 10:13	
Ethylbenzene	mg/L	<0.00024	0.0010	02/03/14 10:13	
Toluene	mg/L	<0.00023	0.0010	02/03/14 10:13	
Xylene (Total)	mg/L	<0.00072	0.0030	02/03/14 10:13	
1,2-Dichloroethane-d4 (S)	%.	96	75-125	02/03/14 10:13	
4-Bromofluorobenzene (S)	%.	102	75-125	02/03/14 10:13	
Toluene-d8 (S)	%.	102	75-125	02/03/14 10:13	

LABORATORY CONTROL SAMPLE: 1618461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/L	.02	0.016	79	75-125	
Ethylbenzene	mg/L	.02	0.017	85	75-125	
Toluene	mg/L	.02	0.017	86	75-125	
Xylene (Total)	mg/L	.06	0.052	86	75-125	
1,2-Dichloroethane-d4 (S)	%.			97	75-125	
4-Bromofluorobenzene (S)	%.			102	75-125	
Toluene-d8 (S)	%.			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1618627 — 1618628

Parameter	Units	10256615005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/L	ND	.1	.1	0.082	0.094	82	94	75-129	14	30	
Ethylbenzene	mg/L	ND	.1	.1	0.081	0.094	81	94	75-128	15	30	
Toluene	mg/L	ND	.1	.1	0.085	0.097	85	97	75-129	14	30	
Xylene (Total)	mg/L	ND	.3	.3	0.25	0.29	84	96	75-129	14	30	
1,2-Dichloroethane-d4 (S)	%.						101	100	75-125			
4-Bromofluorobenzene (S)	%.						101	99	75-125			
Toluene-d8 (S)	%.						102	101	75-125			

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: MSV/26278 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10256484005, 10256484006, 10256484007

METHOD BLANK: 1618954 — Matrix: Water
Associated Lab Samples: 10256484005, 10256484006, 10256484007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/L	<0.00024	0.0010	02/05/14 02:50	
Ethylbenzene	mg/L	<0.00024	0.0010	02/05/14 02:50	
Toluene	mg/L	<0.00023	0.0010	02/05/14 02:50	
Xylene (Total)	mg/L	<0.00072	0.0030	02/05/14 02:50	
1,2-Dichloroethane-d4 (S)	%.	95	75-125	02/05/14 02:50	
4-Bromofluorobenzene (S)	%.	99	75-125	02/05/14 02:50	
Toluene-d8 (S)	%.	101	75-125	02/05/14 02:50	

LABORATORY CONTROL SAMPLE: 1618955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/L	.02	0.015	77	75-125	
Ethylbenzene	mg/L	.02	0.016	82	75-125	
Toluene	mg/L	.02	0.017	83	75-125	
Xylene (Total)	mg/L	.06	0.051	85	75-125	
1,2-Dichloroethane-d4 (S)	%.			95	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1618956 1618957

Parameter	Units	10256455006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/L	0.11	.2	.2	0.27	0.27	79	78	75-129	.7	30	
Ethylbenzene	mg/L	0.20	.2	.2	0.37	0.36	85	82	75-128	2	30	
Toluene	mg/L	0.78	.2	.2	1.0	1.0	122	120	75-129	.4	30	
Xylene (Total)	mg/L	4.0	.6	.6	4.8	4.7	129	128	75-129	.1	30	MS
1,2-Dichloroethane-d4 (S)	%.						96	95	75-125			D3
4-Bromofluorobenzene (S)	%.						98	99	75-125			
Toluene-d8 (S)	%.						101	102	75-125			

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: OEXT/24291 | Analysis Method: Alaska 102/103
QC Batch Method: EPA 3510 | Analysis Description: AK1023 GCS
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

METHOD BLANK: 1619004 | Matrix: Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102	mg/L	<0.20	0.40	02/06/14 13:11	N2
n-Triacontane (S)	%.	74	60-120	02/06/14 13:11	
o-Terphenyl (S)	%.	75	60-120	02/06/14 13:11	

LABORATORY CONTROL SAMPLE & LCSD: 1619005 1619006

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
DRO by AK 102	mg/L	2	1.5	1.5	77	77	75-125	.1	20	N2
n-Triacontane (S)	%.				88	89	60-120			
o-Terphenyl (S)	%.				84	84	60-120			

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: WET/34260 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

METHOD BLANK: 1620235 — Matrix: Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<2.5	5.0	02/07/14 11:13	

LABORATORY CONTROL SAMPLE & LCSD: 1620236 1620237

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.6	41.2	104	103	90-110	.9	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620238 1620239

Parameter	Units	10256253007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	224	40	40	268	264	109	99	80-120	1	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620240 1620241

Parameter	Units	10256671001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	16.5	40	40	56.8	57.2	101	102	80-120	.6	30	

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: WET/45926 | Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4 | Analysis Description: Iron, Ferrous
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

METHOD BLANK: 1325780 | Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.018	0.20	02/02/14 10:33	H6

LABORATORY CONTROL SAMPLE: 1325781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	1.9	97	90-110	H6

MATRIX SPIKE SAMPLE: 1325782

Parameter	Units	10256484007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	53.0	40	92.0	98	50-150	H6

SAMPLE DUPLICATE: 1325783

Parameter	Units	10256484002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.086J	0.086J		10	H6

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: WETA/17262 | Analysis Method: SM 4500-NO3 H
QC Batch Method: SM 4500-NO3 H | Analysis Description: SM4500NO3-H, NO2 + NO3 pres.
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

METHOD BLANK: 1618477 | Matrix: Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.050	0.10	02/03/14 11:52	

LABORATORY CONTROL SAMPLE: 1618478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1618479 1618480

Parameter	Units	10256331002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.73	2.5	2.5	1.1	1.2	13	20	80-120	14	30	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1618481 1618482

Parameter	Units	10256484006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.16	2.5	2.5	1.1	1.2	36	40	80-120	9	30	M1

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: WETA/17290 — Analysis Method: ASTM D516
QC Batch Method: ASTM D516 — Analysis Description: ASTM D516 Sulfate Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

METHOD BLANK: 1620953 — Matrix: Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.2	2.5	02/07/14 13:43	

LABORATORY CONTROL SAMPLE: 1620954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	7.5	8.3	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620955 1620956

Parameter	Units	10256547001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	16.4	20	20	34.3	33.8	89	87	80-120	2	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620957 1620958

Parameter	Units	10256671001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	106	20	20	126	130	100	118	80-120	3	30	

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QUALITY CONTROL DATA

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

QC Batch: WETA/17252 — Analysis Method: SM 4500-NO2 B
QC Batch Method: SM 4500-NO2 B — Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

METHOD BLANK: 1618025 — Matrix: Water
Associated Lab Samples: 10256484001, 10256484002, 10256484003, 10256484004, 10256484005, 10256484006, 10256484007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.10	01/31/14 13:35	

LABORATORY CONTROL SAMPLE: 1618026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.3	0.30	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1618027 1618028

Parameter	Units	10256439001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrite as N	mg/L	ND	.3	.3	0.21	0.21	69	69	80-120	0	30	M1

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: GCSV/12797

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: GCV/11676

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M	Surrogate recovery outside laboratory control limits due to matrix interferences.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the recognized method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
N2	The lab does not hold TNI accreditation for this parameter.

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METHOD CROSS REFERENCE TABLE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Parameter	Matrix	Analytical Method	Preparation Method
8260 MSV UST	Water	SW-846 8260B/5030B	N/A

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10256484001	**MW-1-012914**	RSK 175	AIR/19339		
10256484002	**MW-2-012914**	RSK 175	AIR/19339		
10256484003	**MW-4-012914**	RSK 175	AIR/19339		
10256484004	**MW-5-012914**	RSK 175	AIR/19339		
10256484005	**MW-9-012914**	RSK 175	AIR/19339		
10256484006	**MW-10-012914**	RSK 175	AIR/19339		
10256484007	**DUP-1-012914**	RSK 175	AIR/19339		
10256484001	**MW-1-012914**	EPA 3510	OEXT/24291	Alaska 102/103	GCSV/12797
10256484002	**MW-2-012914**	EPA 3510	OEXT/24291	Alaska 102/103	GCSV/12797
10256484003	**MW-4-012914**	EPA 3510	OEXT/24291	Alaska 102/103	GCSV/12797
10256484004	**MW-5-012914**	EPA 3510	OEXT/24291	Alaska 102/103	GCSV/12797
10256484005	**MW-9-012914**	EPA 3510	OEXT/24291	Alaska 102/103	GCSV/12797
10256484006	**MW-10-012914**	EPA 3510	OEXT/24291	Alaska 102/103	GCSV/12797
10256484007	**DUP-1-012914**	EPA 3510	OEXT/24291	Alaska 102/103	GCSV/12797
10256484001	**MW-1-012914**	Alaska 101	GCV/11650		
10256484002	**MW-2-012914**	Alaska 101	GCV/11650		
10256484003	**MW-4-012914**	Alaska 101	GCV/11650		
10256484004	**MW-5-012914**	Alaska 101	GCV/11650		
10256484005	**MW-9-012914**	Alaska 101	GCV/11650		
10256484006	**MW-10-012914**	Alaska 101	GCV/11676		
10256484007	**DUP-1-012914**	Alaska 101	GCV/11650		
10256484008	**TRIP BLANK-1-012914**	Alaska 101	GCV/11650		
10256484001	**MW-1-012914**	EPA 8260	MSV/26264		
10256484002	**MW-2-012914**	EPA 8260	MSV/26264		
10256484003	**MW-4-012914**	EPA 8260	MSV/26264		
10256484004	**MW-5-012914**	EPA 8260	MSV/26264		
10256484005	**MW-9-012914**	EPA 8260	MSV/26278		
10256484006	**MW-10-012914**	EPA 8260	MSV/26278		
10256484007	**DUP-1-012914**	EPA 8260	MSV/26278		
10256484008	**TRIP BLANK-1-012914**	EPA 8260	MSV/26264		
10256484001	**MW-1-012914**	SM 2320B	WET/34260		
10256484002	**MW-2-012914**	SM 2320B	WET/34260		
10256484003	**MW-4-012914**	SM 2320B	WET/34260		
10256484004	**MW-5-012914**	SM 2320B	WET/34260		
10256484005	**MW-9-012914**	SM 2320B	WET/34260		
10256484006	**MW-10-012914**	SM 2320B	WET/34260		
10256484007	**DUP-1-012914**	SM 2320B	WET/34260		
10256484001	**MW-1-012914**	SM 3500-Fe B#4	WET/45926		
10256484002	**MW-2-012914**	SM 3500-Fe B#4	WET/45926		
10256484003	**MW-4-012914**	SM 3500-Fe B#4	WET/45926		
10256484004	**MW-5-012914**	SM 3500-Fe B#4	WET/45926		
10256484005	**MW-9-012914**	SM 3500-Fe B#4	WET/45926		
10256484006	**MW-10-012914**	SM 3500-Fe B#4	WET/45926		
10256484007	**DUP-1-012914**	SM 3500-Fe B#4	WET/45926		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 065003 CHEVRON 211079-GWS REV1
Pace Project No.: 10256484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10256484001	**MW-1-012914**	SM 4500-NO3 H	WETA/17262		
10256484002	**MW-2-012914**	SM 4500-NO3 H	WETA/17262		
10256484003	**MW-4-012914**	SM 4500-NO3 H	WETA/17262		
10256484004	**MW-5-012914**	SM 4500-NO3 H	WETA/17262		
10256484005	**MW-9-012914**	SM 4500-NO3 H	WETA/17262		
10256484006	**MW-10-012914**	SM 4500-NO3 H	WETA/17262		
10256484007	**DUP-1-012914**	SM 4500-NO3 H	WETA/17262		
10256484001	**MW-1-012914**	ASTM D516	WETA/17290		
10256484002	**MW-2-012914**	ASTM D516	WETA/17290		
10256484003	**MW-4-012914**	ASTM D516	WETA/17290		
10256484004	**MW-5-012914**	ASTM D516	WETA/17290		
10256484005	**MW-9-012914**	ASTM D516	WETA/17290		
10256484006	**MW-10-012914**	ASTM D516	WETA/17290		
10256484007	**DUP-1-012914**	ASTM D516	WETA/17290		
10256484001	**MW-1-012914**	SM 4500-NO2 B	WETA/17252		
10256484002	**MW-2-012914**	SM 4500-NO2 B	WETA/17252		
10256484003	**MW-4-012914**	SM 4500-NO2 B	WETA/17252		
10256484004	**MW-5-012914**	SM 4500-NO2 B	WETA/17252		
10256484005	**MW-9-012914**	SM 4500-NO2 B	WETA/17252		
10256484006	**MW-10-012914**	SM 4500-NO2 B	WETA/17252		
10256484007	**DUP-1-012914**	SM 4500-NO2 B	WETA/17252		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

SHORT HOLD

1/31/14 10256484

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA_Chevron	Report To:	spritchard@craworld.com, jcloud@craworld.com	Attention:	Accounts Payable
Address:	14998 West 6th Ave Suite 800	Copy To:	sgillette@craworld.com, ngreco@craworld.com	Company Name:	Conestoga-Rovers Association
	Golden, CO 80401	Copy To:	Chevron-EDDs@craworld.com	Address:	14998 West 6th Ave, Suite 800, 80401
Email To:	ChevronGWRT@craworld.com	Purchase Order No.		Pace Quote Reference:	
Phone:	Fax:	Client Project ID:	065003 Chevron 211079-GWS	Pace Project Manager:	Jenni Gross
Requested Due Date/TAT:	10 Day (Standard)	Container Order Number:		Pace Profile #:	32368 #3

Regulatory Agency	State / Location
ADEC	Alaska

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (Use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BTEX by 8260	DRO by AK102	GRO by AK101	Nitrate by 4500	Sulfate by ASTM D516	Ferrous Iron by 3500*	Methane by RSK-175	Alkalinity by 2320B	Residual Chlorine (Y/N)	
1	MW-1-012914		G	1-29-14	1500				13	5			8						3	2	3	X	X	1	3	1		10256484 001
2	MW-2-012914		G	1-29-14	1130				13	5			8						3	2	3	X	X	1	3	1		002
3	MW-4-012914		G	1-29-14	1320				13	5			8						3	2	3	X	X	1	3	1		003
4	MW-5-012914		G	1-29-14	1240				13	5			8						3	2	3	X	X	1	3	1		004
5	~~MW-6~~		G						13	5			8						3	2	3	X	X	1	3	1		
6	MW-9-012914		G	1-29-14	1440				13	5			8						3	2	3	X	X	1	3	1		005
7	MW-10-012914		G	1-29-14	1410				13	5			8						3	2	[illegible]	X	X	1	3	1		If enough water left Please run GRO too 006
8	~~MW-11~~		G						13	5			8						3	2	3	X	X	1	3	1		
9	DUP-1-012914		G	1-29-14	—				13	5			8						3	2	3	X	X	1	3	1		007
10	Trip Blank-1-012914		OT	1-29-14	—				4				4						2		2							008
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
All results reported in mg/L / mg/kg	Tom Echtermeyer / CRA	1-30-14	0900	[signature] / Pace-MN	1/31/14	9:54	3.4
Include Chromatograms with all reports							1.6
*Analyze outside of holding time							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tom Echtermeyer

SIGNATURE of SAMPLER: [signature] DATE Signed: 1-30-14

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 07Nov2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.08	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: CRA

Project #: WO#: 10256484

10256484

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 6753 4198 1010, 1009

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Temp Blank? ☒ Yes ☐ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☐ 888A912167504 ☒ 888A9132521491 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 3.4 Cooler Temp Corrected (°C): 3.4 Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C Correction Factor: TRUE Date and Initials of Person Examining Contents: CMB 1/31/14

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☒ Yes	☐ No	☐ N/A	6. Methane by RSK, Nitrate.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☐ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☒ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☒ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☒ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	☐ Yes	☐ No		Initial when completed: JT Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☒ No	☐ N/A	14.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present? JT 1/31/14	☒ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): TOLY 011014-1				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Jenny Gross Date: 01/31/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60162319

60162319

Optional
Proj Due Date:
Proj Name:

Client Name: PASI MN

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.2

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: pm 2/1/14

Chain of Custody present:	☑Yes ☐No ☐N/A	1.	
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.	
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	~~pm 2/1/14~~ ~~☑Yes~~ ☒No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Fert	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.	
Sufficient volume:	☑Yes ☐No ☐N/A	8.	
Correct containers used:	☑Yes ☐No ☐N/A		
Pace containers used:	☑Yes ☐No ☐N/A	9.	
Containers intact:	☑Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): _____	☐Yes ☐No ☑N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AAF Date: ~~2/3/15~~ 2/3/14 AAF
2/3/14

F-KS-C-003-Rev 7, 04December2012

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 10256484 **Workorder Name:** 065003 CHEVRON 211079-GWS **Owner Received Date:** 1/31/2014 **Results Requested By:** 2/14/2014

Report To

Jennifer Gross
Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone (612)607-1700
Fax (612)607-6444

Subcontract To

Pace Analytical Kansas
9608 Loiret Blvd
Lenexa, KS 66219
Phone (913)599-5665

Requested Analysis

60162319

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HCL						Ferrous Iron												LAB USE ONLY
1	MW-1-012914	PS	1/29/2014 15:20	10256484001	Water	1						X												10THR
2	MW-2-012915	PS	1/29/2014 11:30	10256484002	Water	1						X												
3	MW-4-012916	PS	1/29/2014 13:20	10256484003	Water	1						X												
4	MW-5-012917	PS	1/29/2014 12:40	10256484004	Water	1						X												
5	MW-9-012918	PS	1/29/2014 14:40	10256484005	Water	1						X												
6	MW-10-012919	PS	1/29/2014 14:10	10256484006	Water	1						X												
7	DUP-1-012920	PS	1/29/2014 00:00	10256484007	Water	1						X												

Transfers	Released By	Date/Time	Received By	Date/Time
1	Cassy Spurlock Pace	1-31-14 1400	PASE	2/1/14 0900
2				
3				

Comments

Cooler Temperature on Receipt 4.2 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Data File: \\192.168.10.12\chem\10msv1.i\020314A.B/02031417.D

Report Date: 02/04/2014

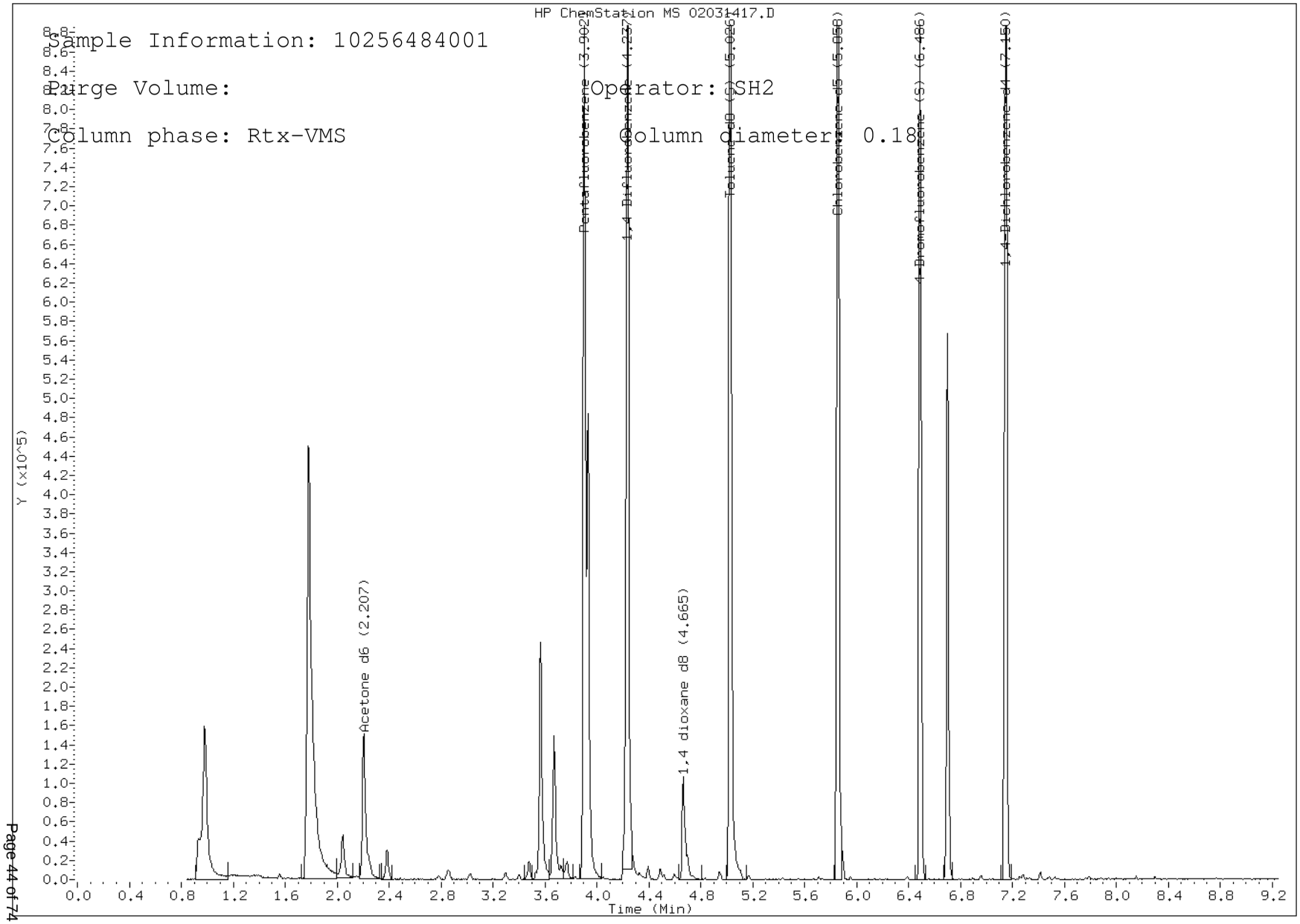
Sample ID: 10256484001

Client ID: Instrument: 10msv1.i

Sample Information: 10256484001

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column diameter: 0.18



Data File: \\192.168.10.12\chem\10msv1.i\020314A.B/02031418.D

Report Date: 02/04/2014

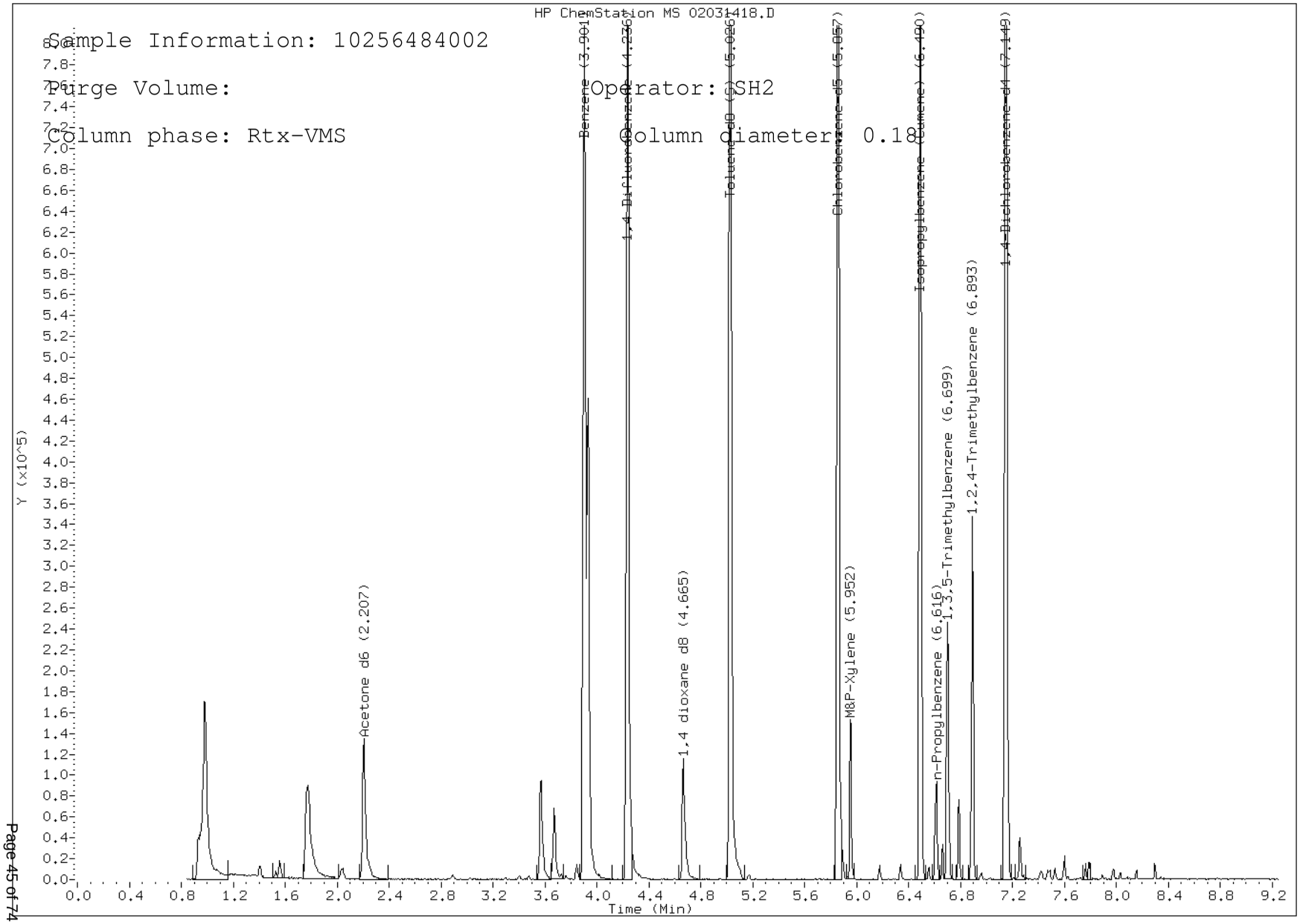
Sample ID: 10256484002

Client ID: Instrument: 10msv1.i

Sample Information: 10256484002

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column diameter: 0.18



Data File: \\192.168.10.12\chem\10msv1.i\020314A.B/02031419.D

Report Date: 02/04/2014

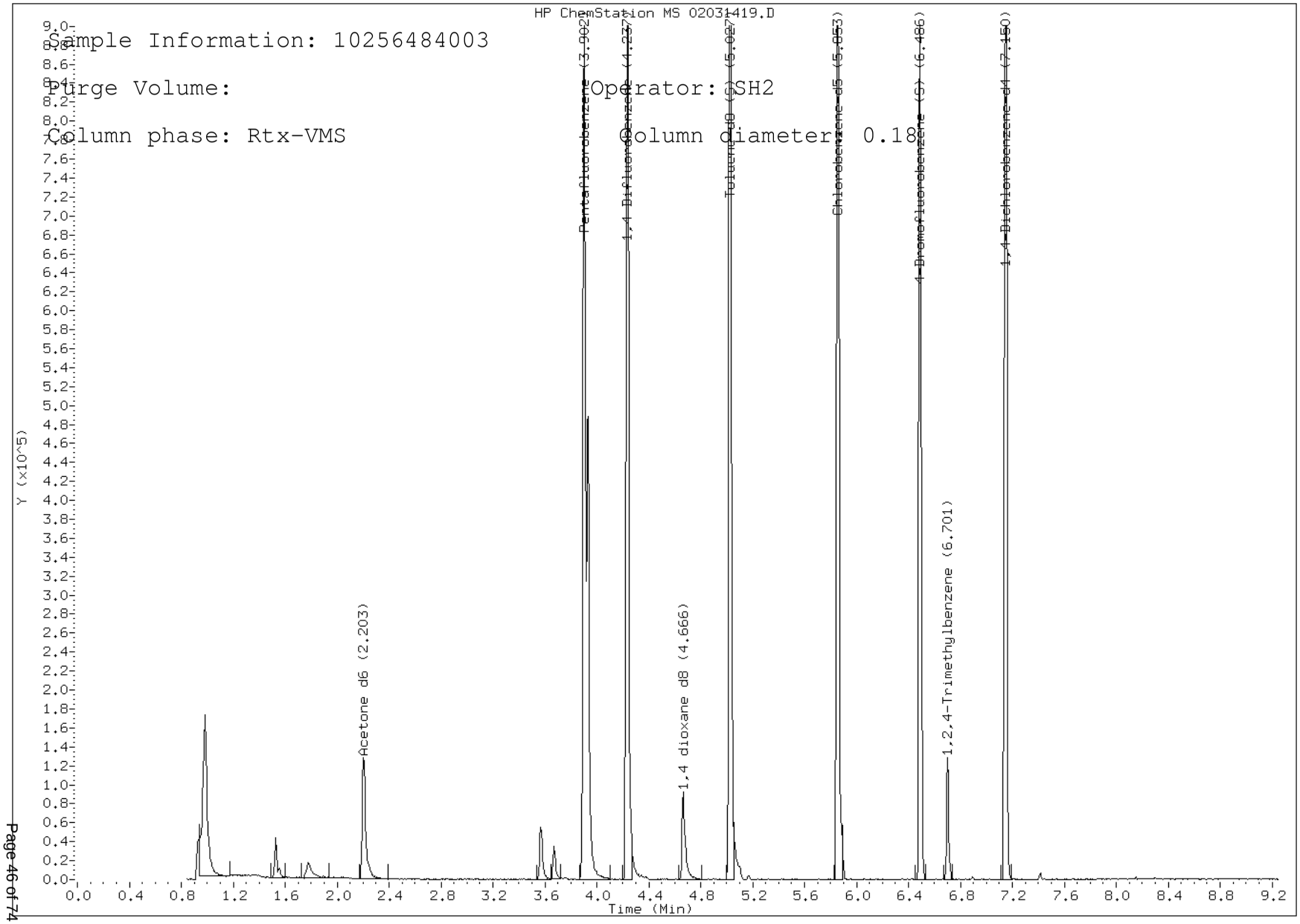
Sample ID: 10256484003

Client ID: Instrument: 10msv1.i

Sample Information: 10256484003

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column diameter: 0.18



Data File: \\192.168.10.12\chem\10msv1.i\020314A.B/02031420.D

Report Date: 02/04/2014

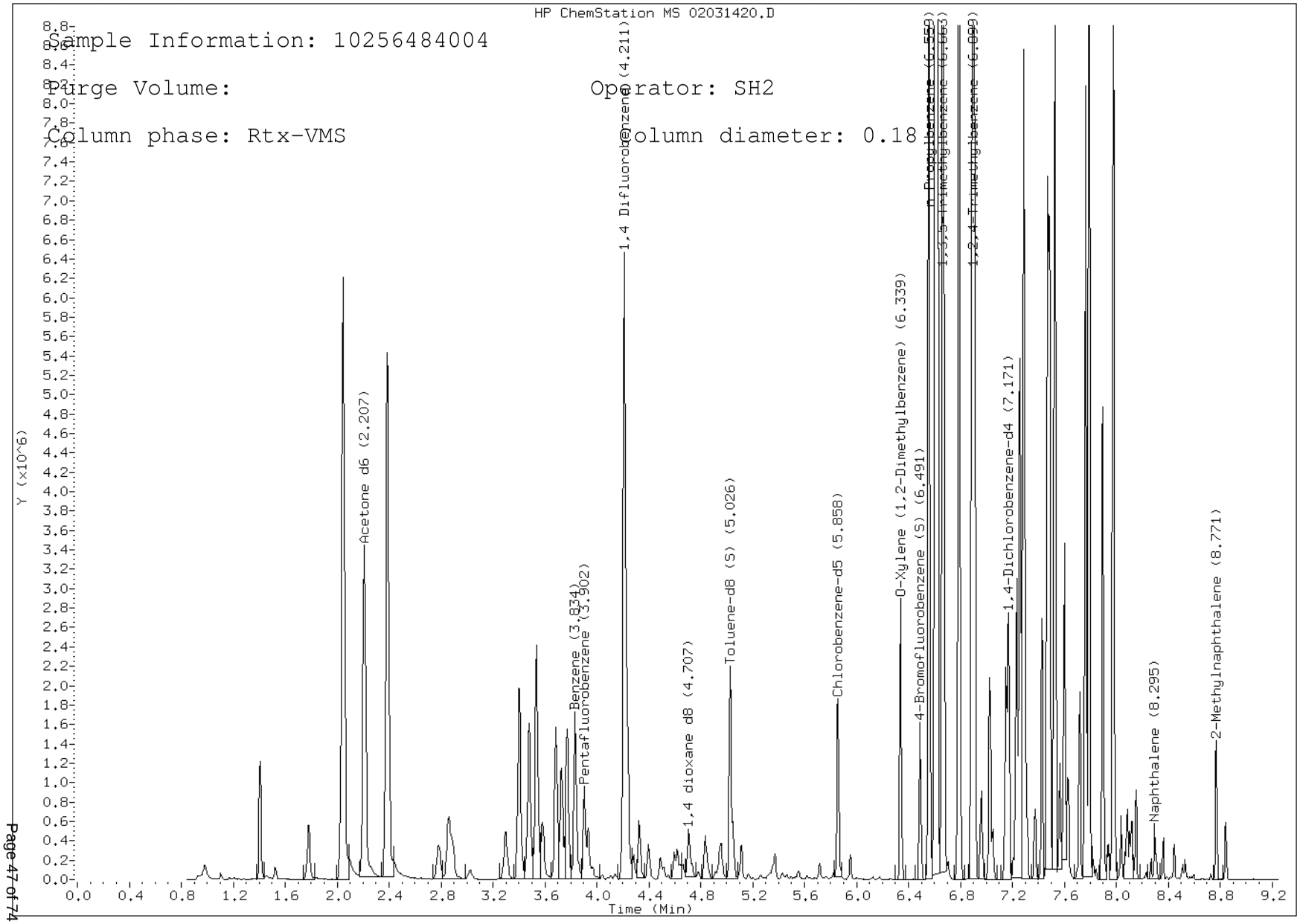
Sample ID: 10256484004

Client ID: Instrument: 10msv1.i

Sample Information: 10256484004

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column diameter: 0.18



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Report Date: 02/04/2014

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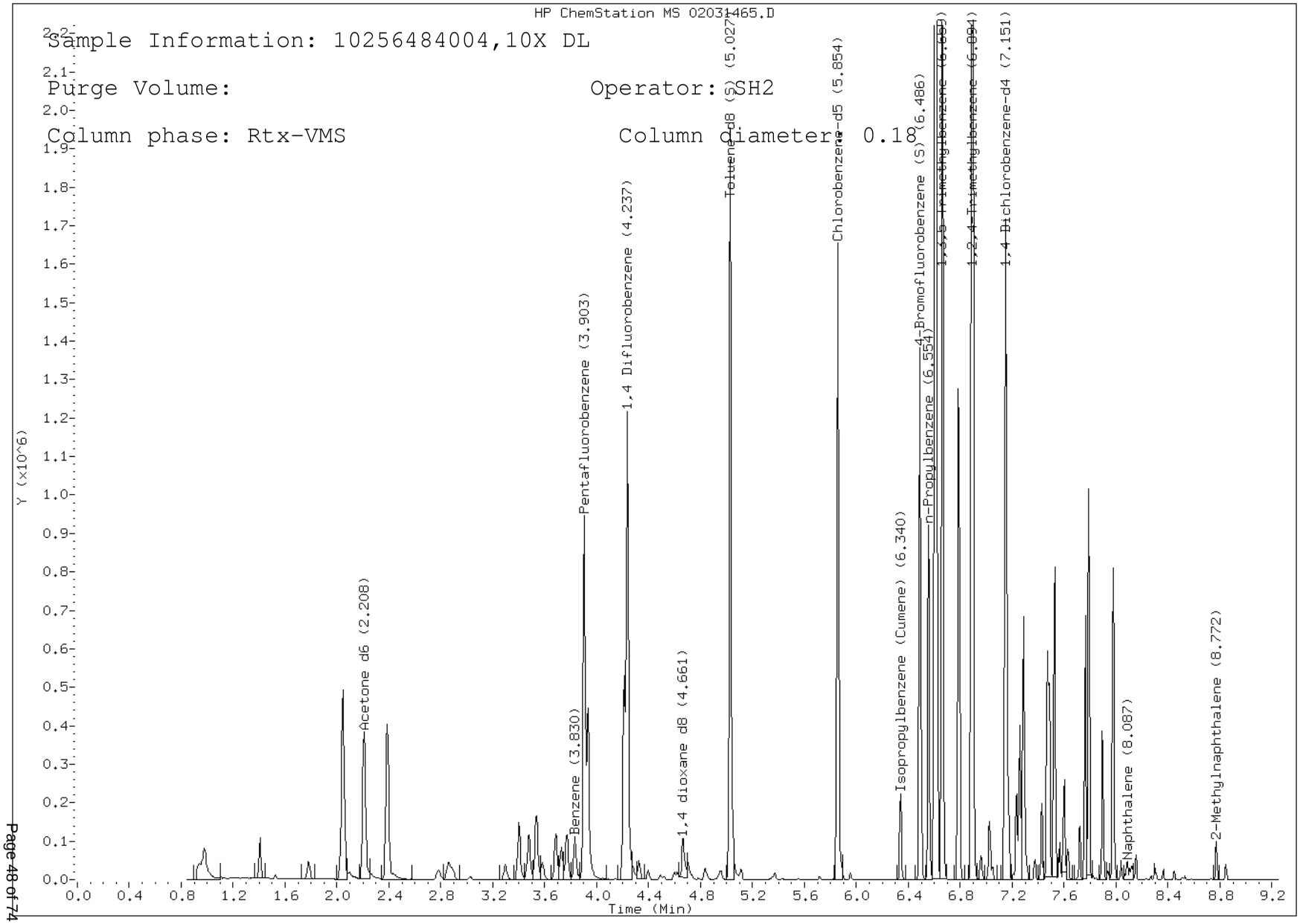
Client ID: Instrument: 10msv1.i

Sample Information: 10256484004,10X DL

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column diameter: 0.18



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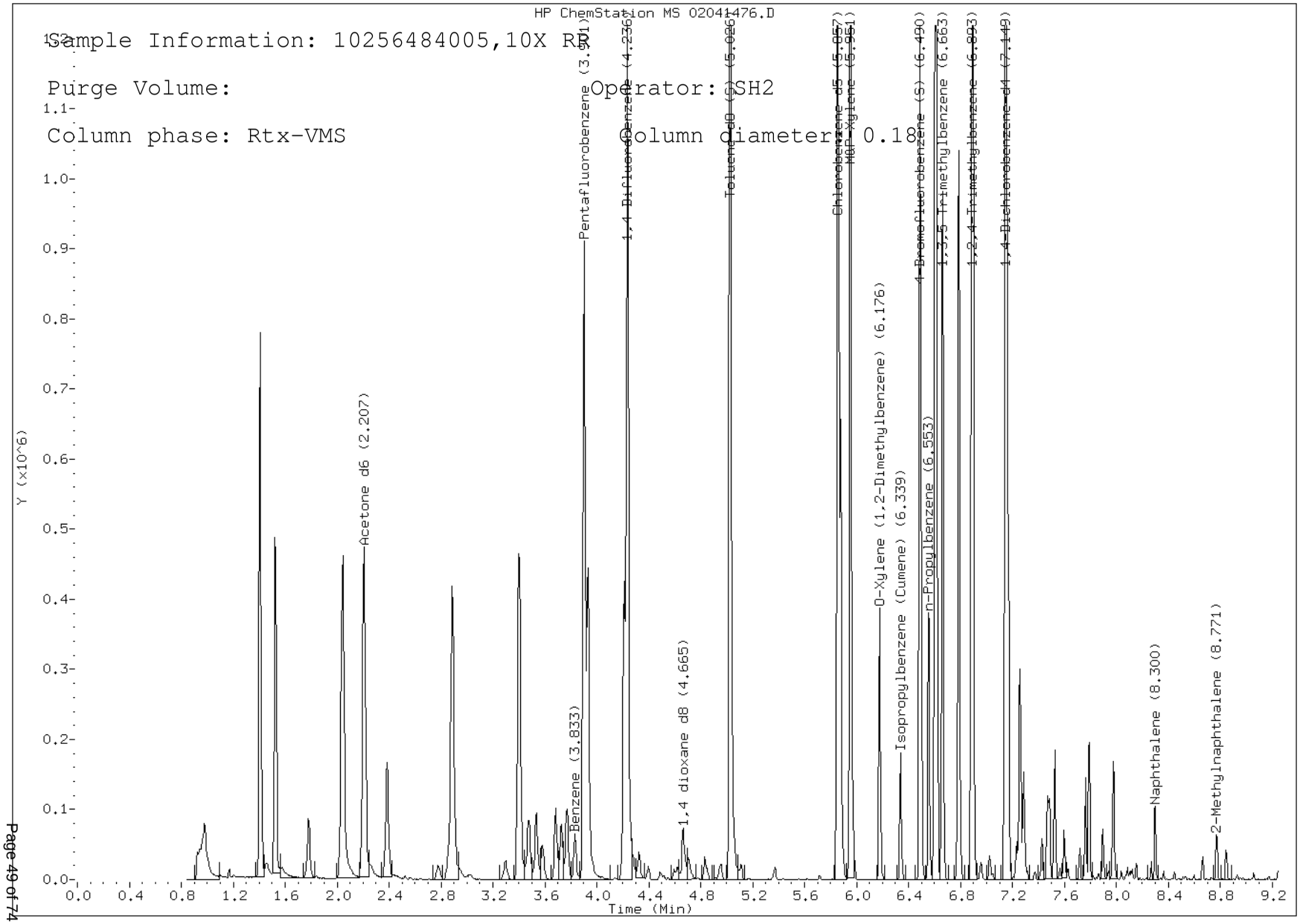
Client ID: Instrument: 10msv1.i

Sample Information: 10256484005,10X RT

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column diameter: 0.18



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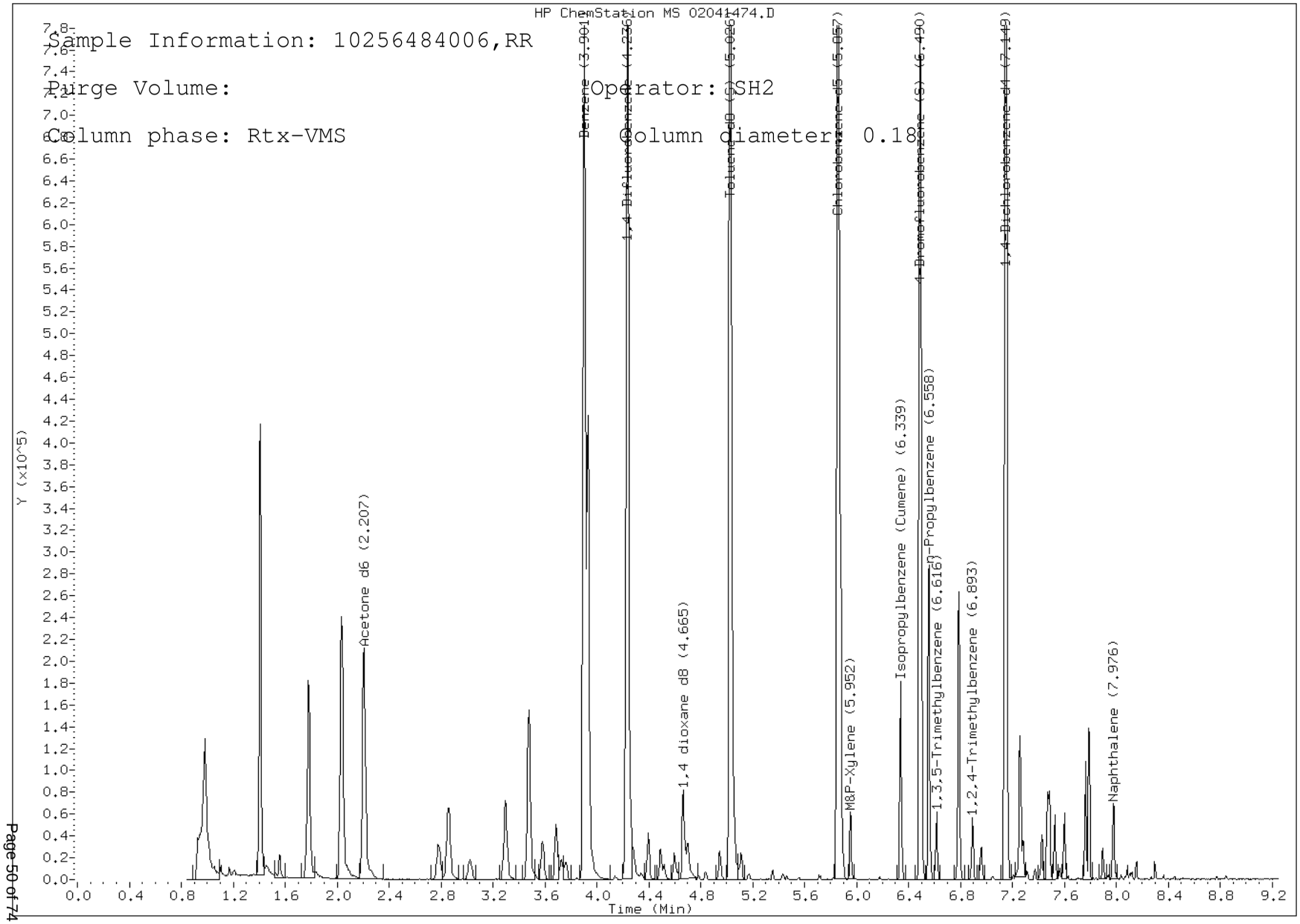
Client ID: Instrument: 10msv1.i

Sample Information: 10256484006,RR

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column diameter: 0.18



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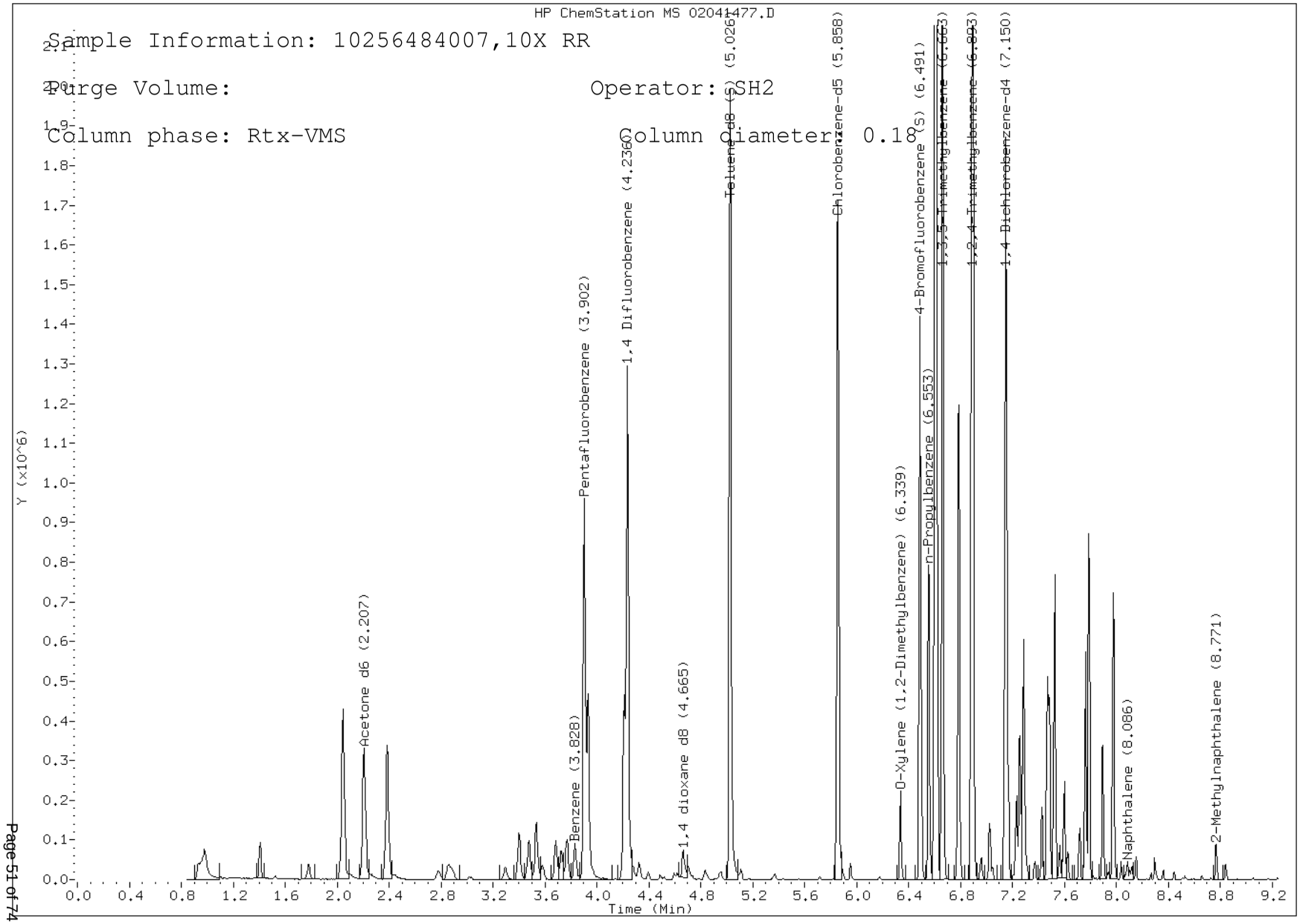
Sample Information: 10256484007,10X RR

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column Diameter: 0.18



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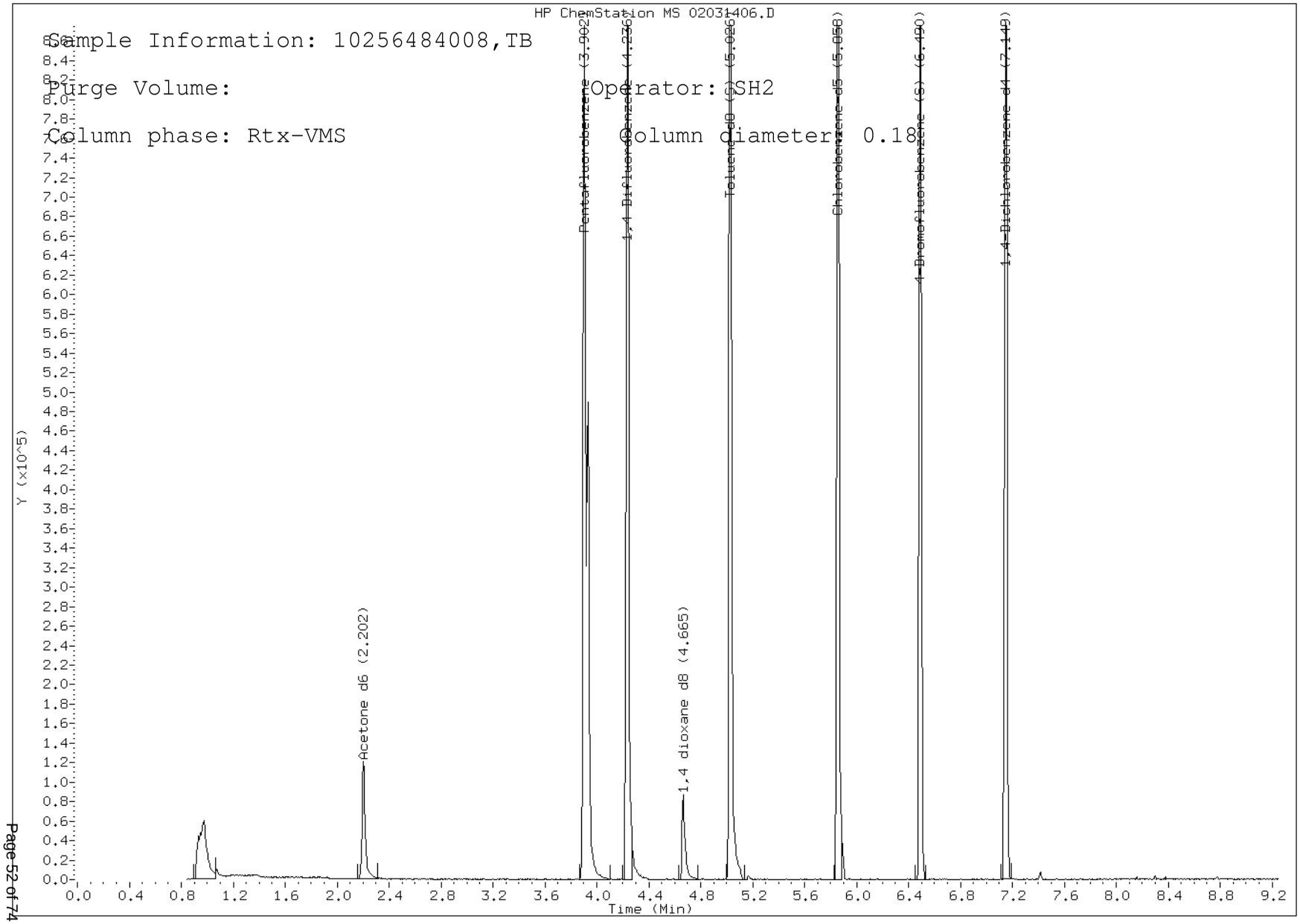
Client ID: Instrument: 10msv1.i

Sample Information: 10256484008,TB

Purge Volume: Operator: SH2

Column phase: Rtx-VMS Column diameter: 0.18



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Report Date: 02/09/2014

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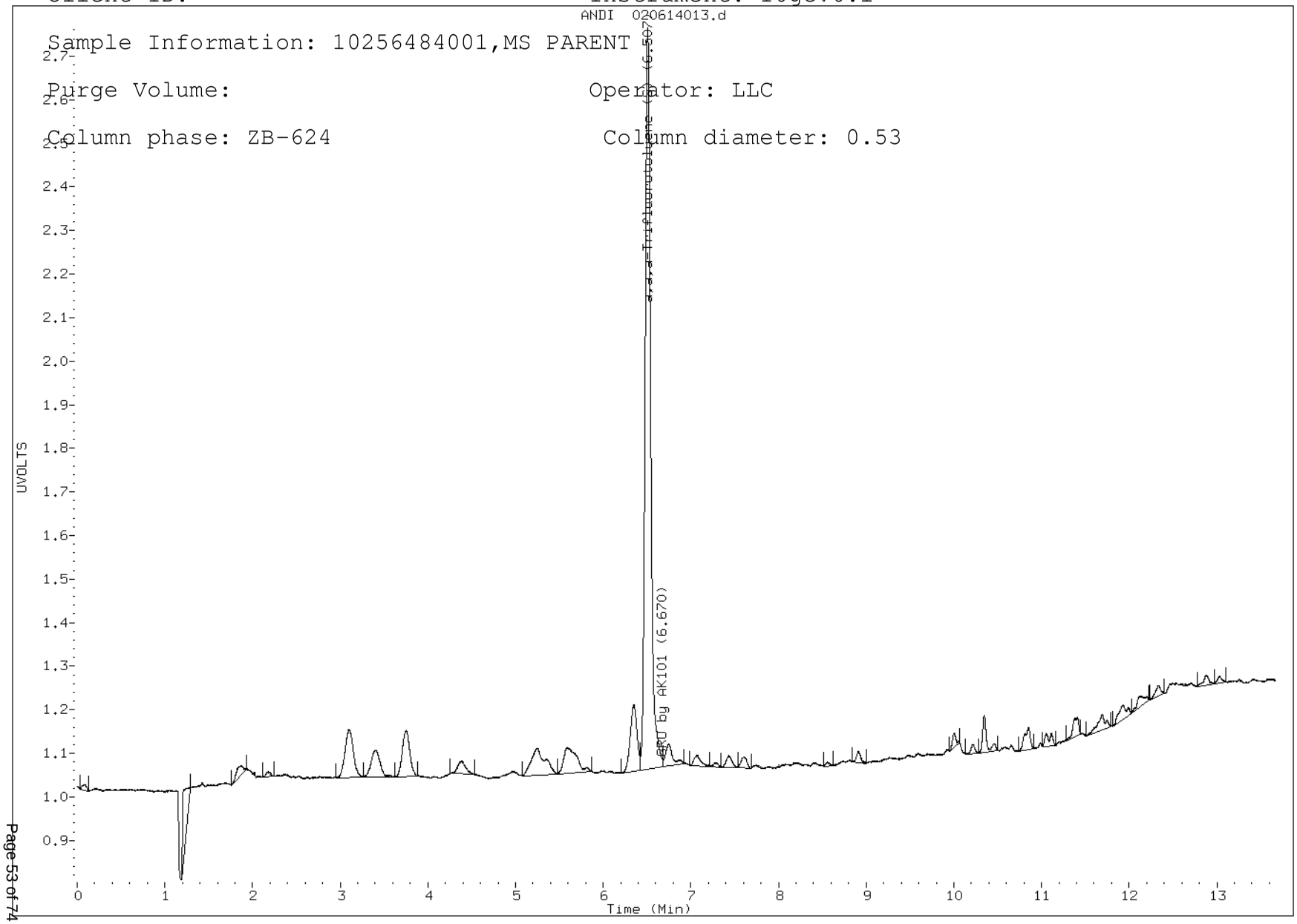
Client ID: Instrument: 10gcv6.i

Sample Information: 10256484001,MS PARENT

Purge Volume: Operator: LLC

Column phase: ZB-624 Column diameter: 0.53



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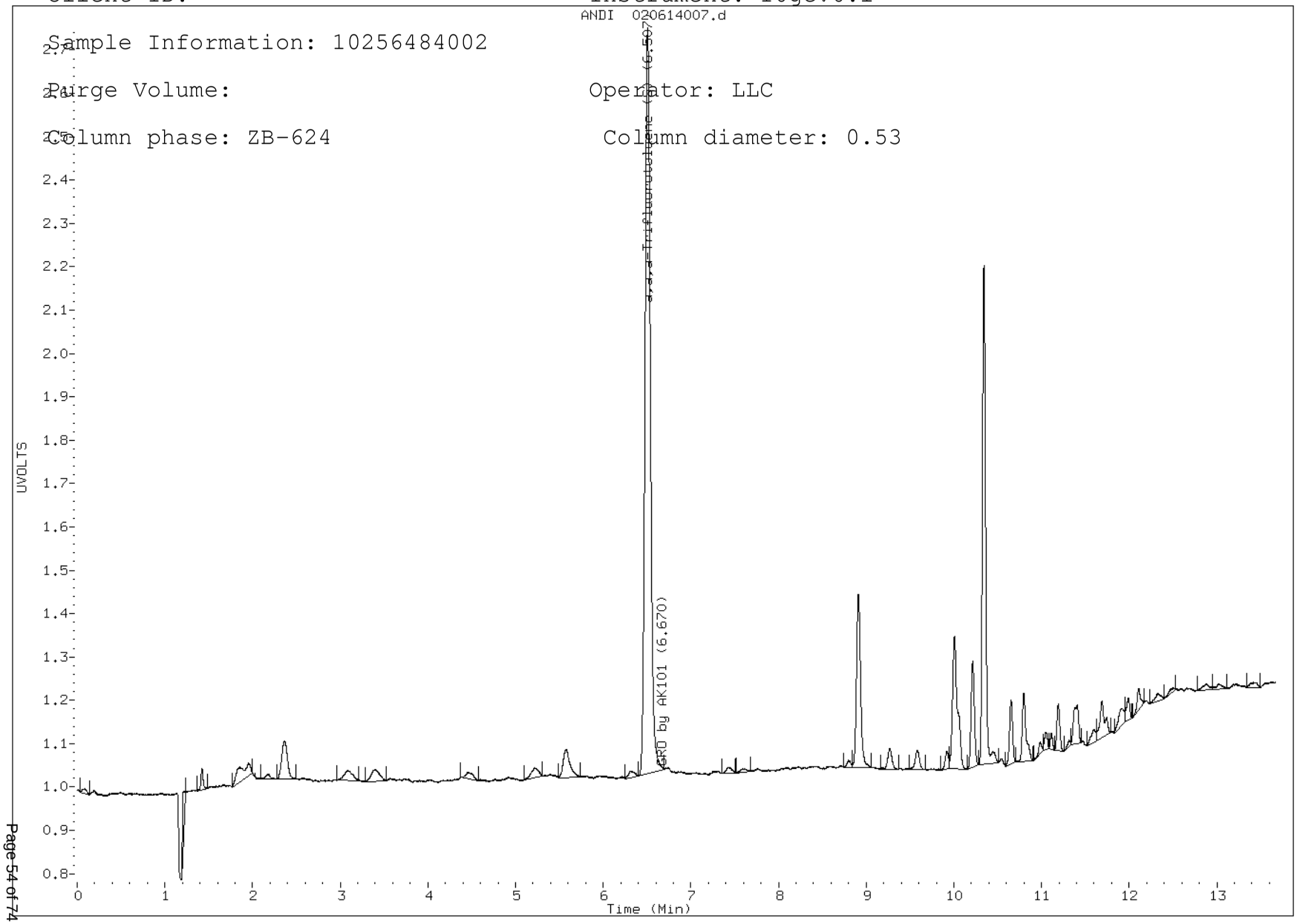
Client ID: Instrument: 10gcv6.i

Sample Information: 10256484002

Purge Volume: Operator: LLC

Column phase: ZB-624 Column diameter: 0.53



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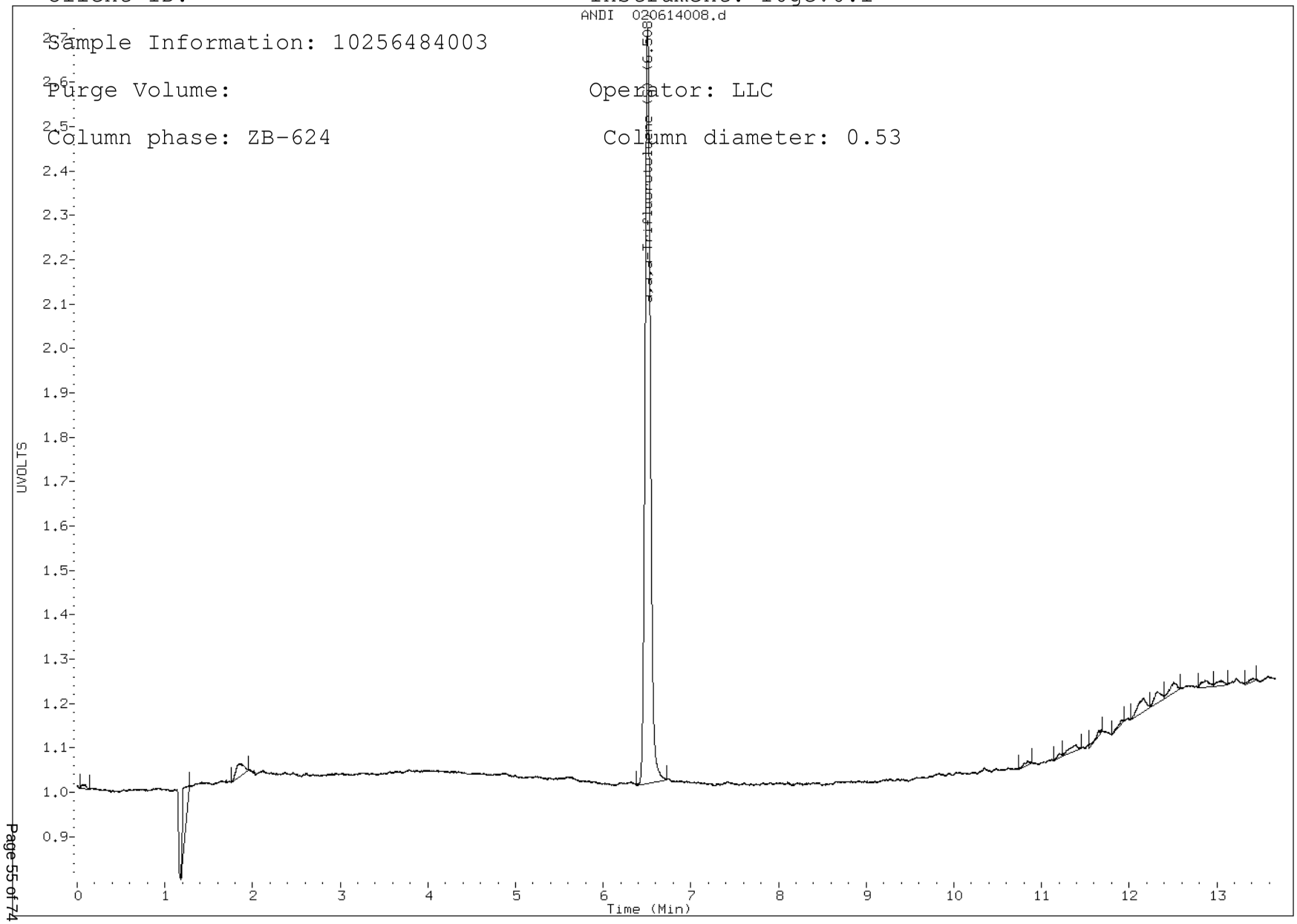
Client ID: Instrument: 10gcv6.i

Sample Information: 10256484003

Purge Volume: Operator: LLC

Column phase: ZB-624 Column diameter: 0.53



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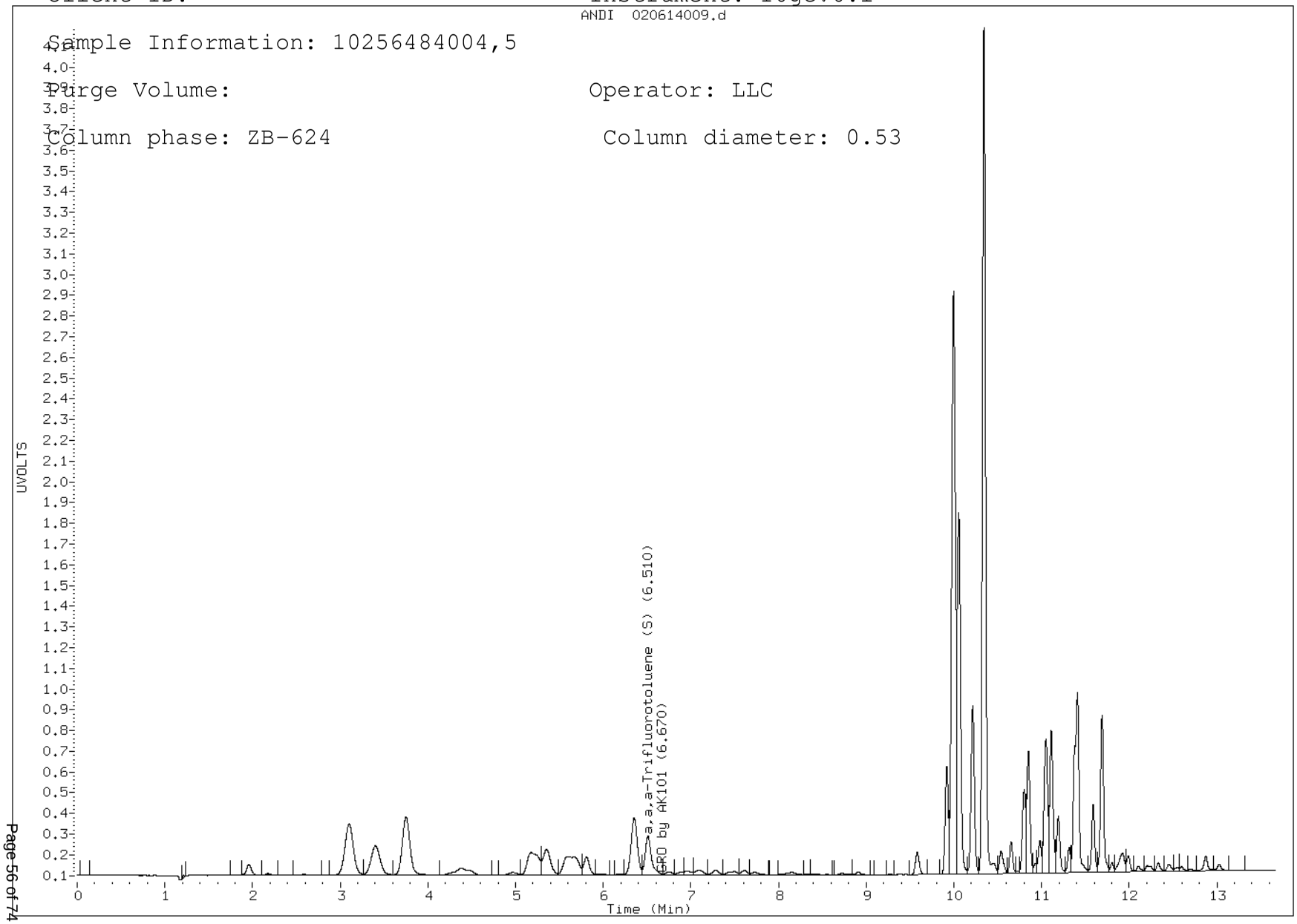
Sample ID: 10256484004

Client ID: Instrument: 10gcv6.i

Sample Information: 10256484004,5

Purge Volume: Operator: LLC

Column phase: ZB-624 Column diameter: 0.53



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Report Date: 02/09/2014

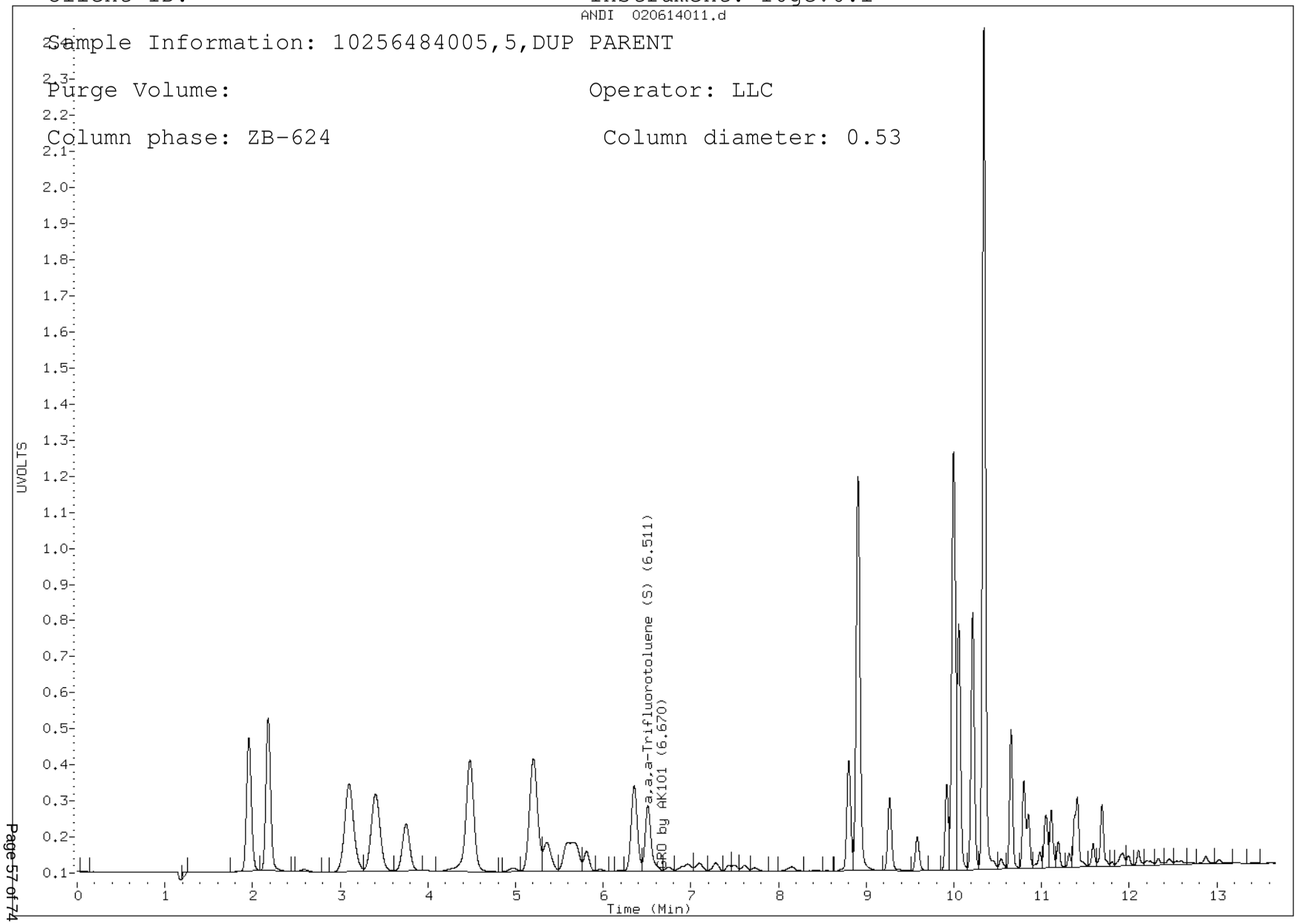
Sample ID: 10256484005

Client ID: Instrument: 10gcv6.i

Sample Information: 10256484005,5,DUP PARENT

Purge Volume: Operator: LLC

Column phase: ZB-624 Column diameter: 0.53



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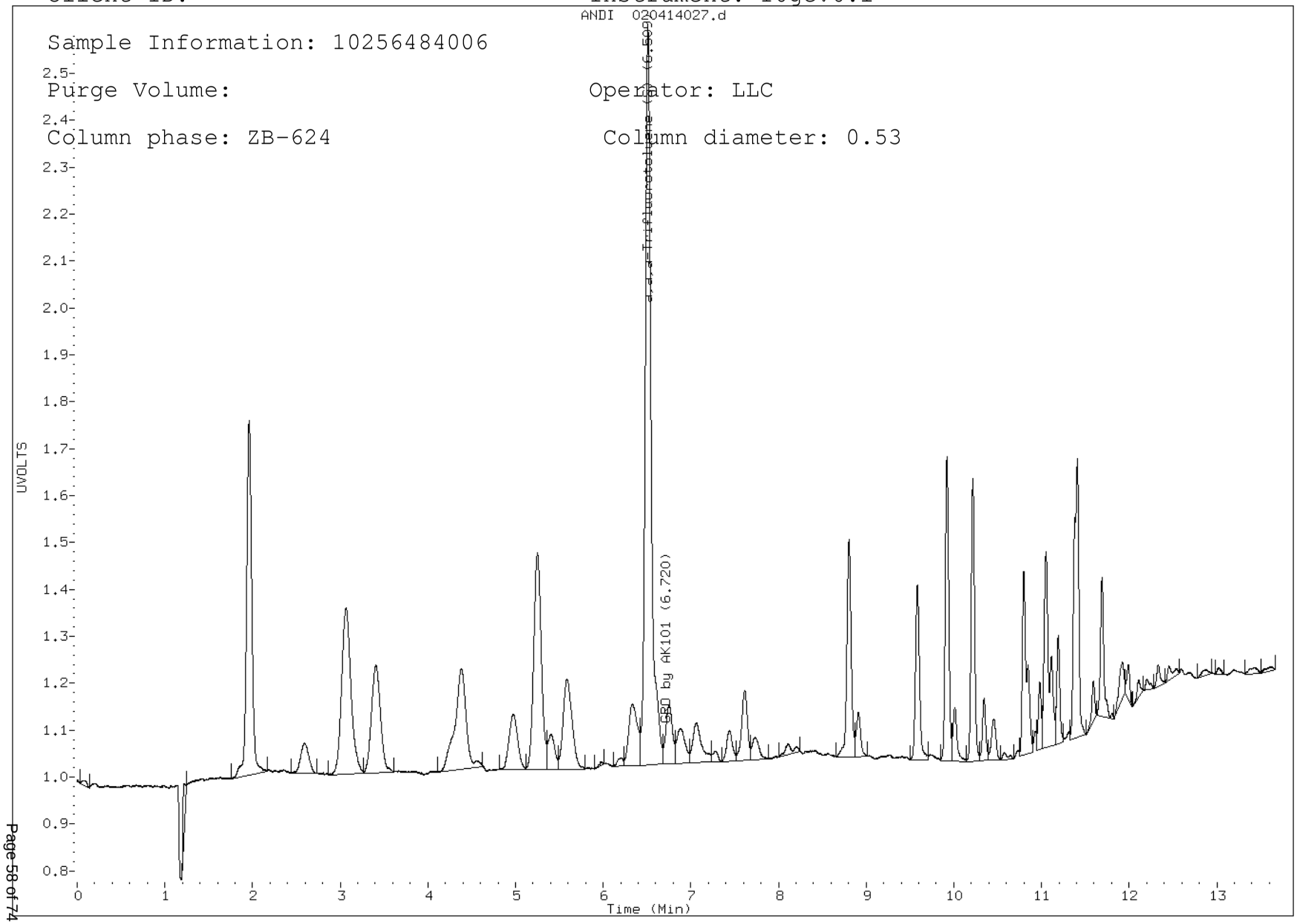
Sample Information: 10256484006

Purge Volume: Operator: LLC

Column phase: ZB-624 Column diameter: 0.53



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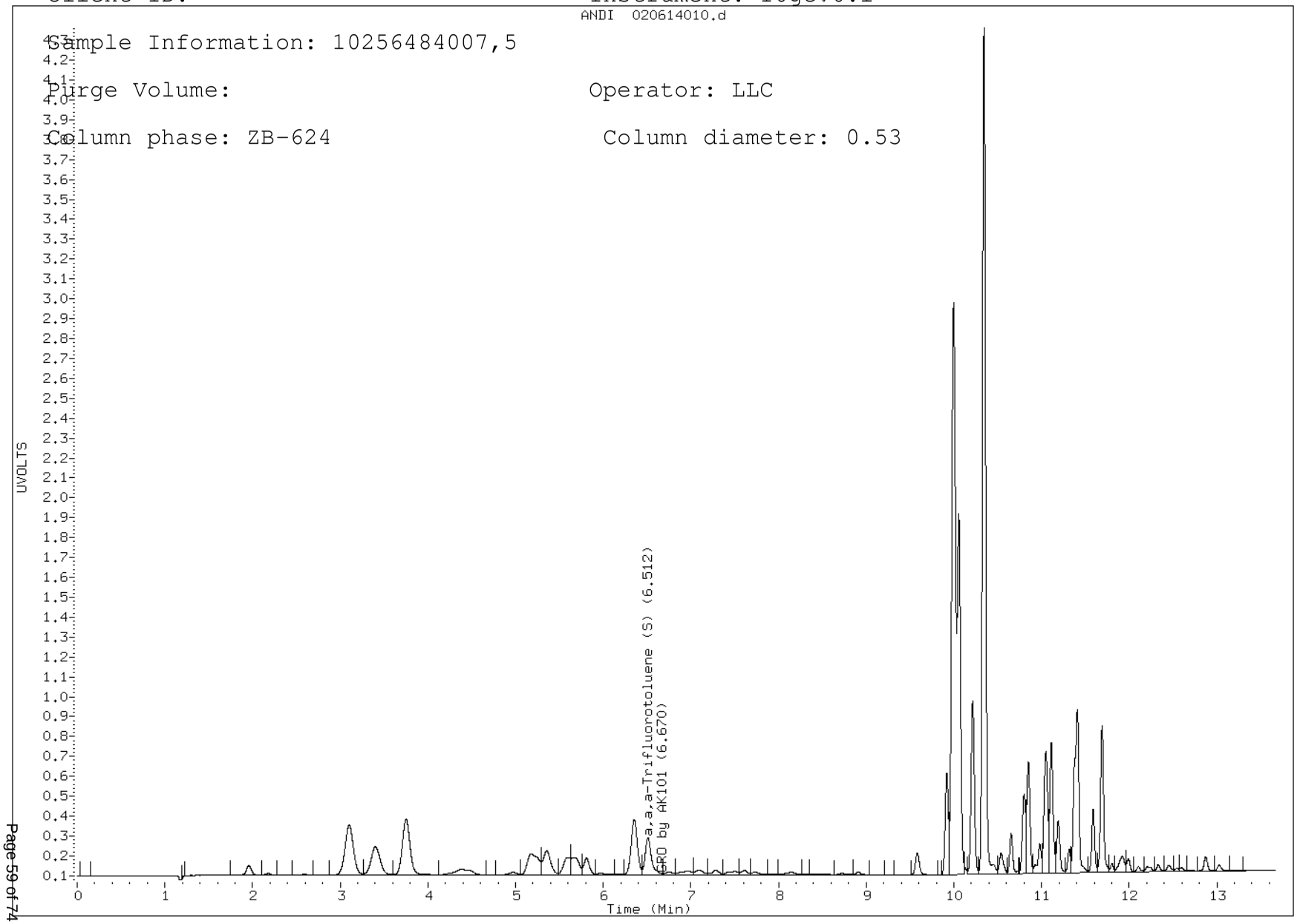
Client ID: Instrument: 10gcv6.i

Sample Information: 10256484007,5

Purge Volume: Operator: LLC

Column phase: ZB-624 Column diameter: 0.53



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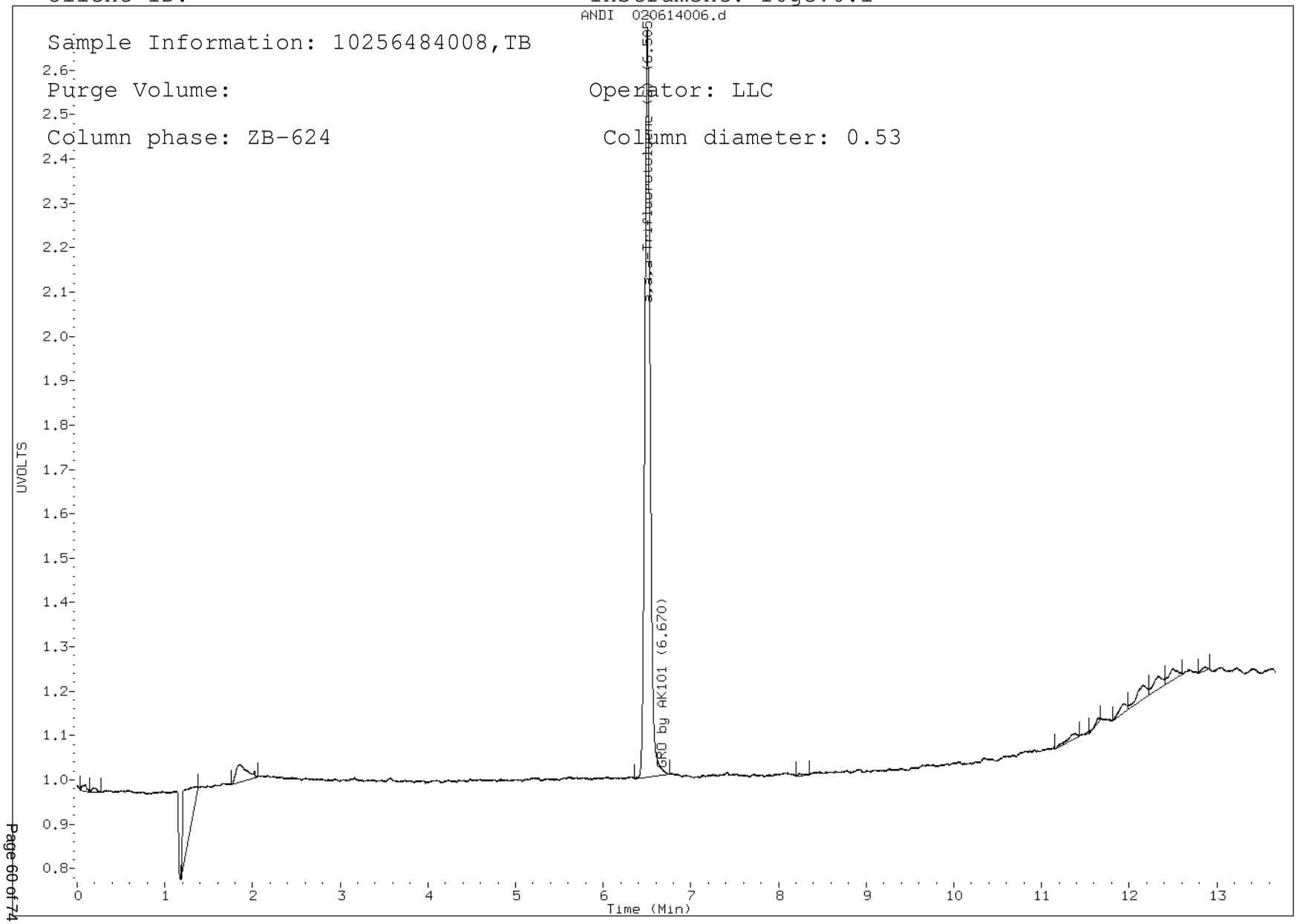
Sample Information: 10256484008,TB

Purge Volume: Operator: LLC

Column phase: ZB-624 Column diameter: 0.53



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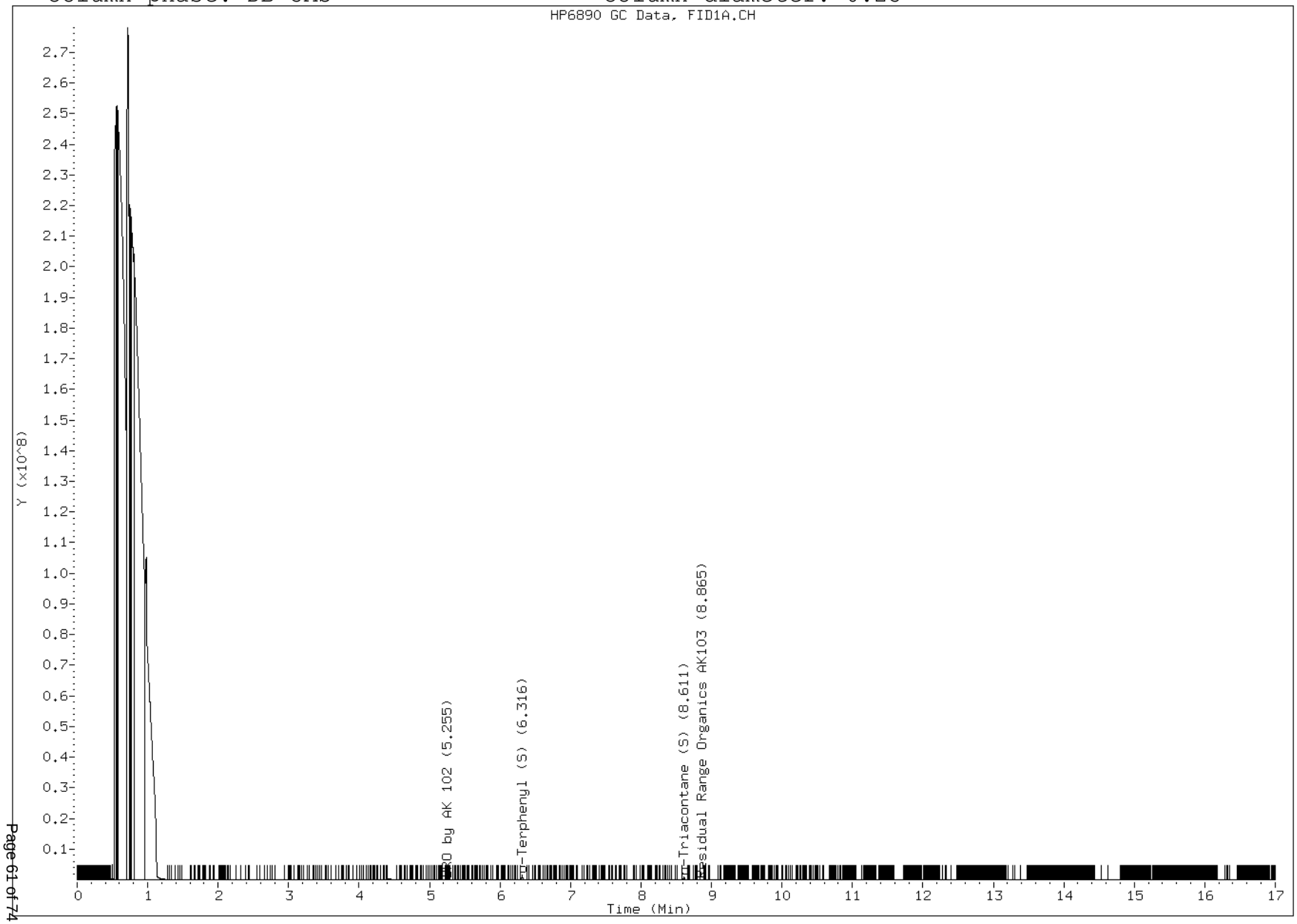

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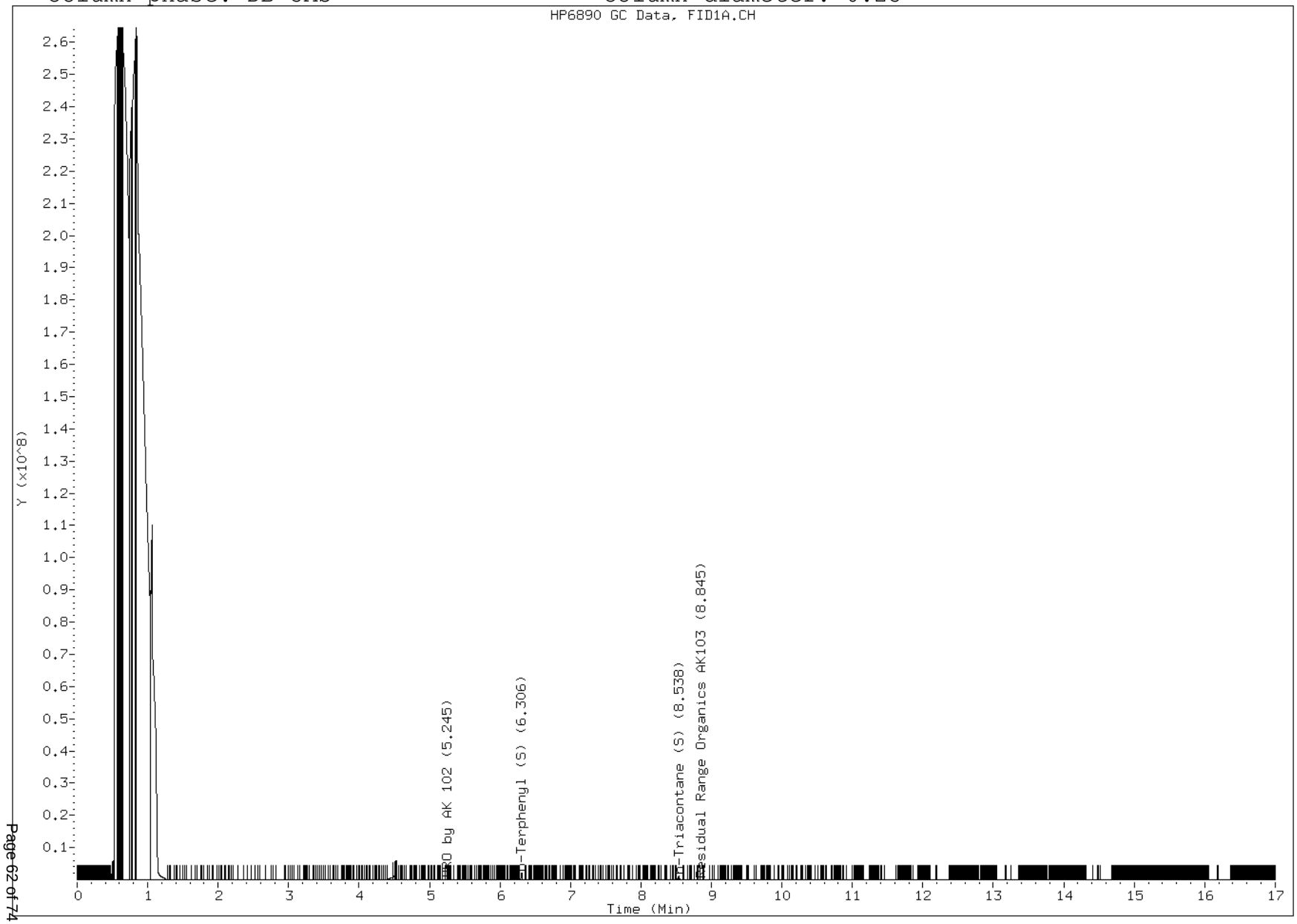
Purge Volume: Operator: JRH
Column phase: DB-5MS Column diameter: 0.25



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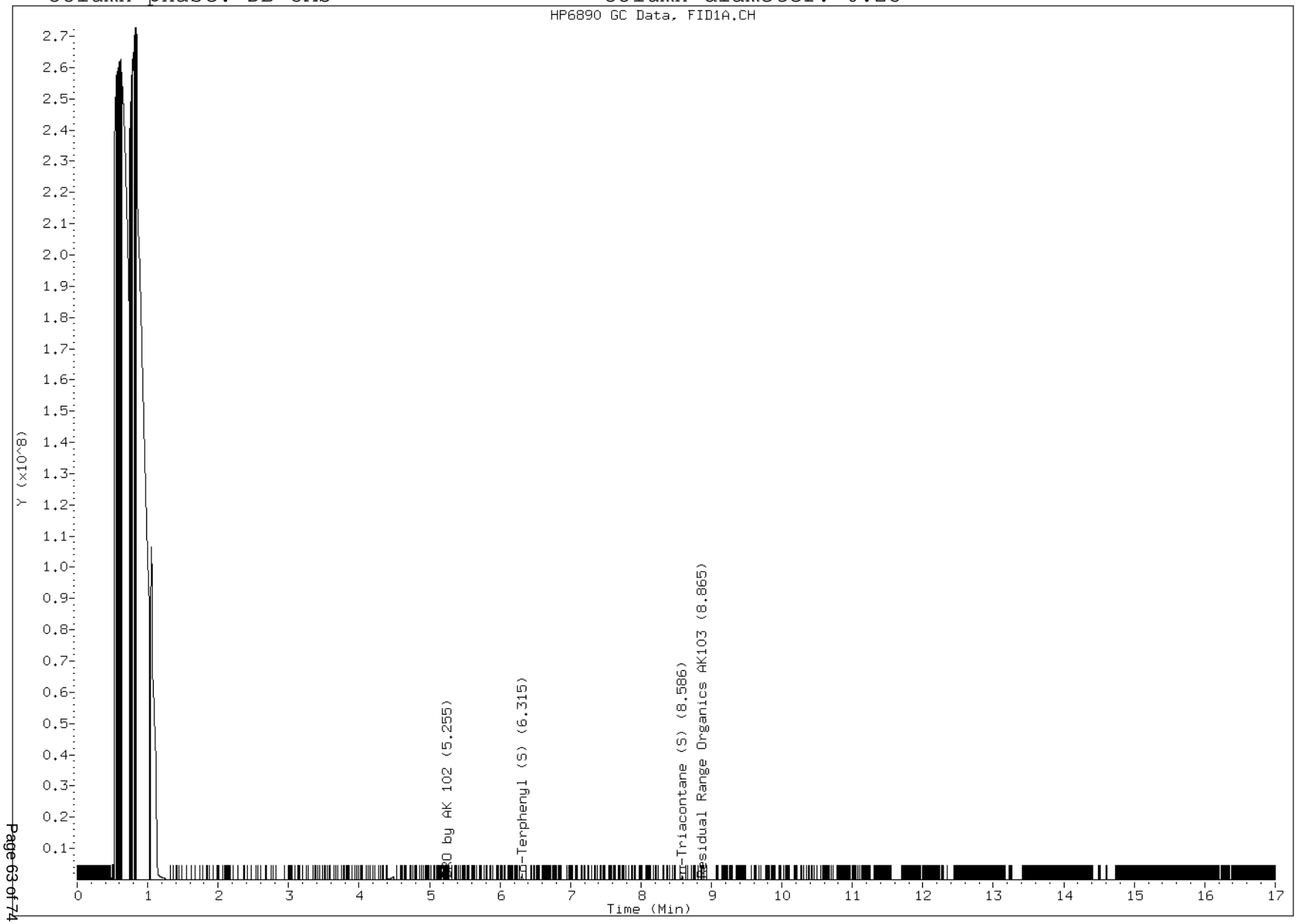
Purge Volume: Operator: MT
Column phase: DB-5MS Column diameter: 0.25



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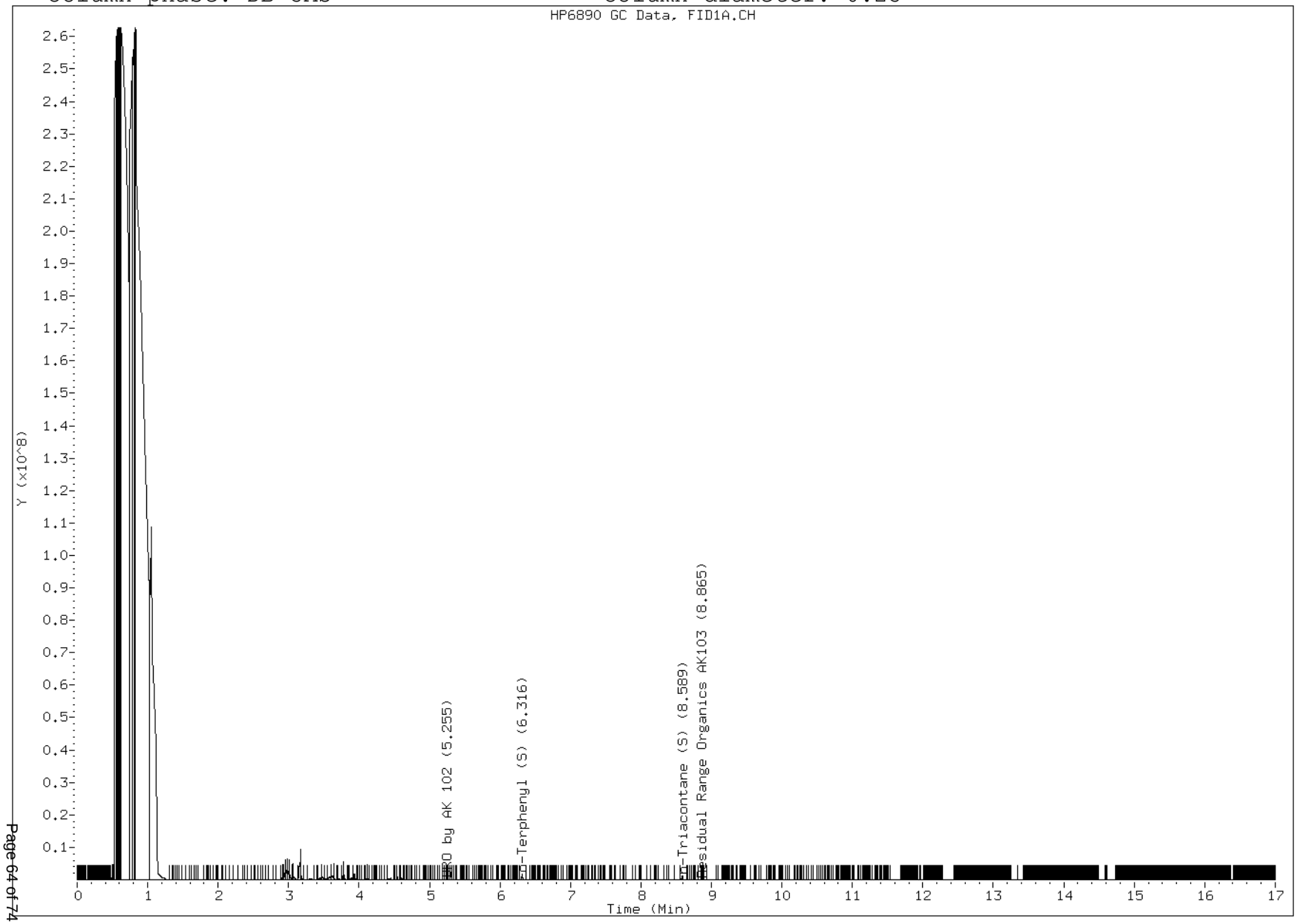
Column phase: DB-5MS Column diameter: 0.25



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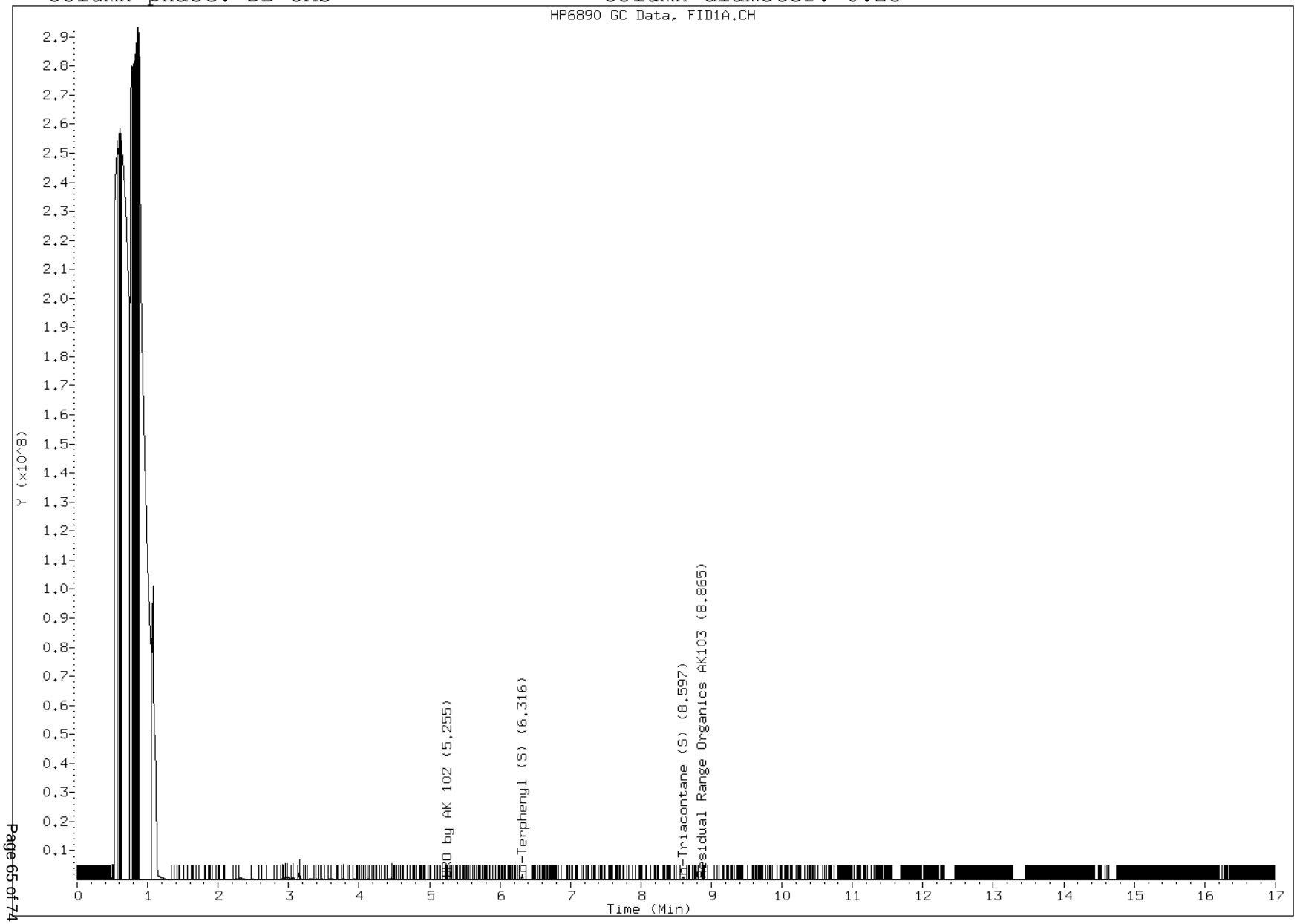

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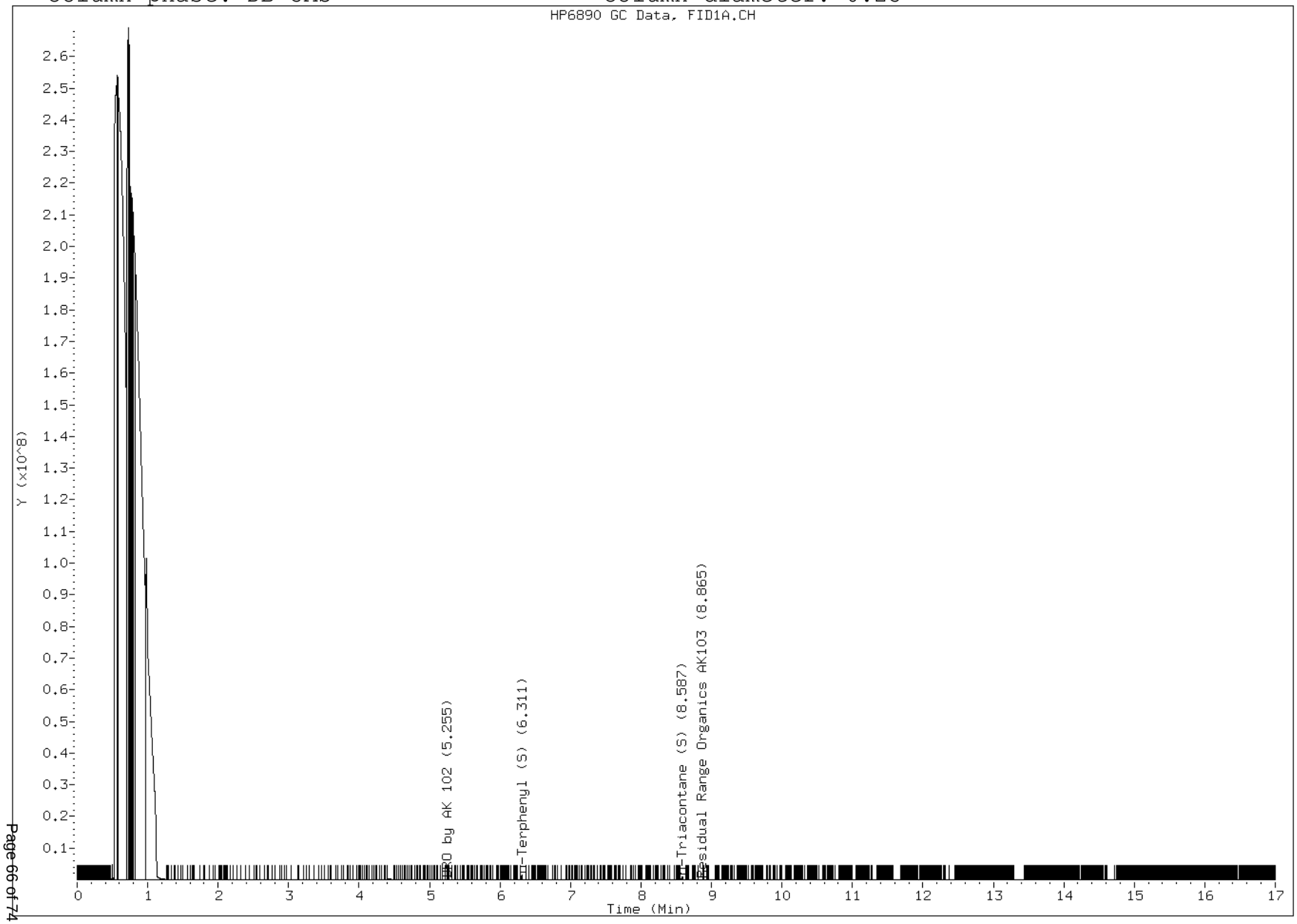

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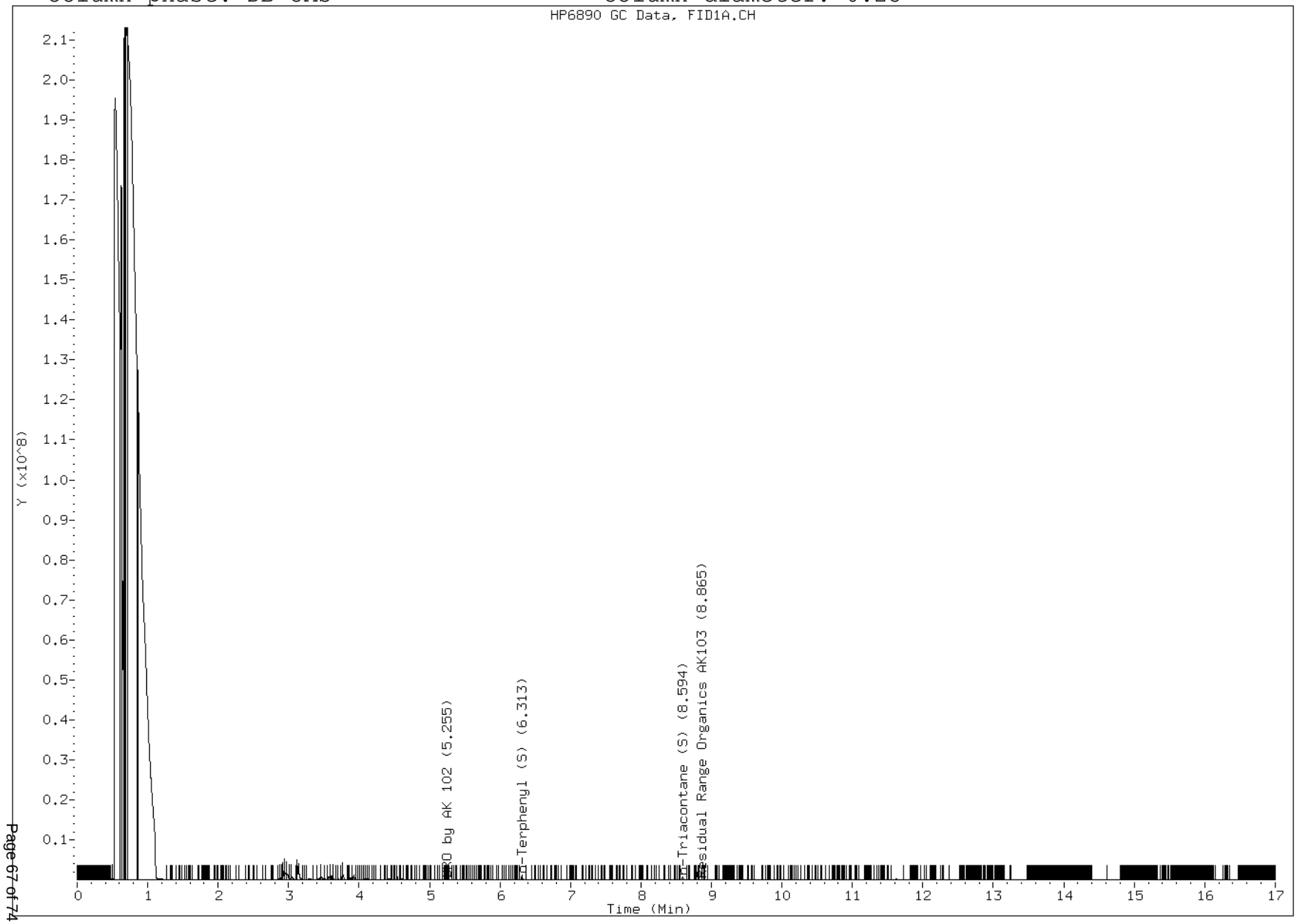
Column phase: DB-5MS Column diameter: 0.25



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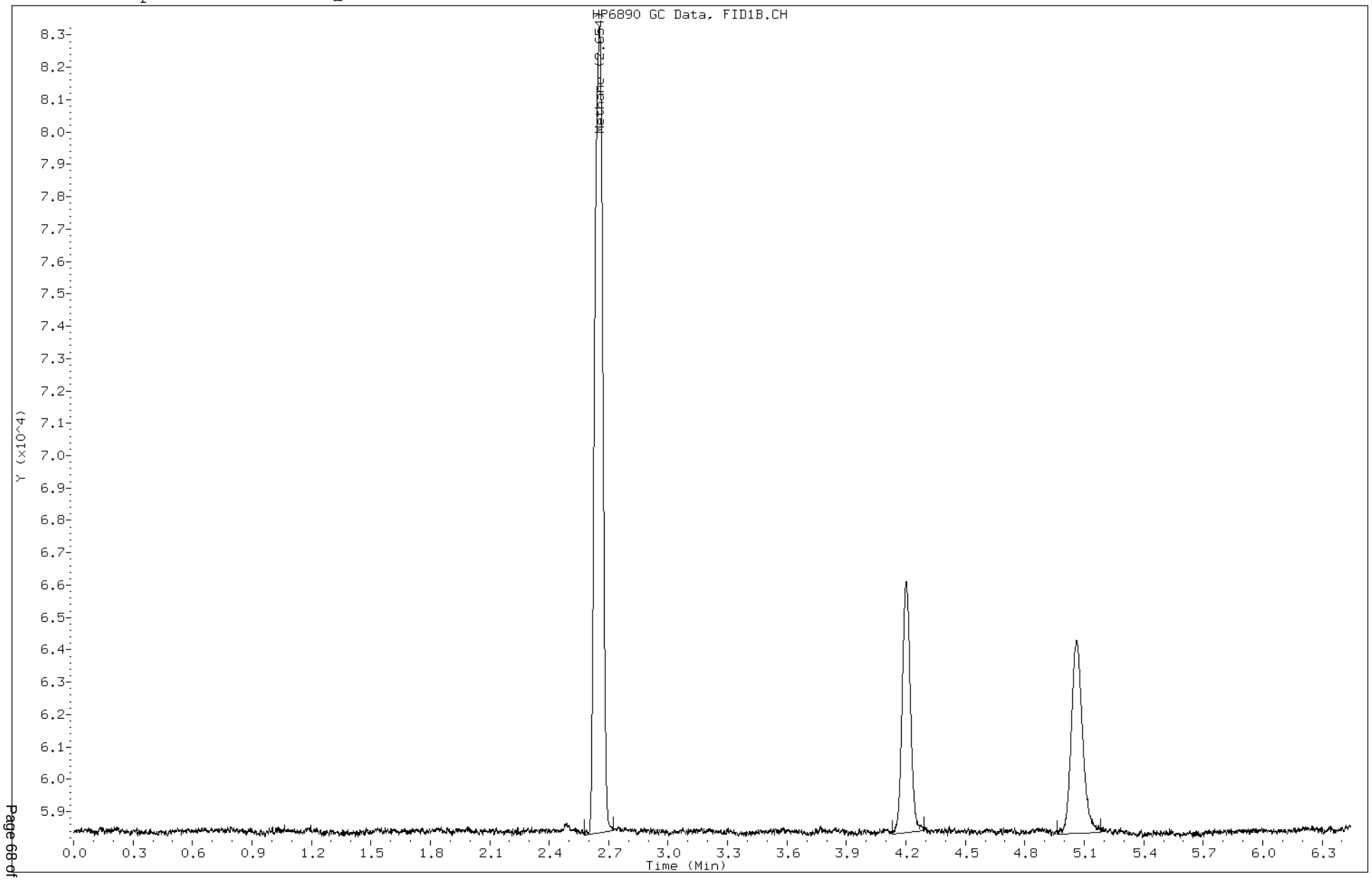
Column phase: J&W GS-Q Column diameter: 0.53



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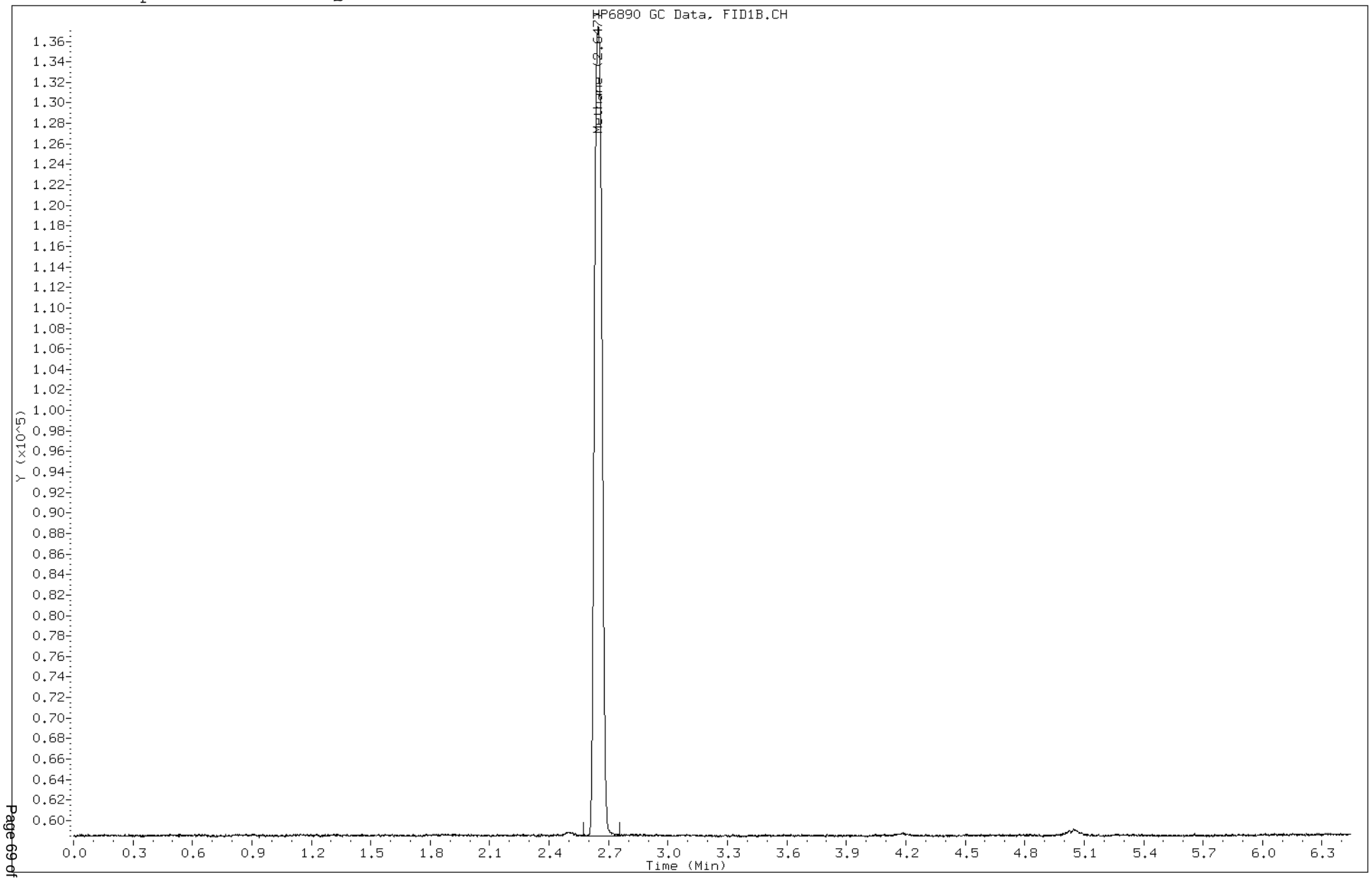
Column phase: J&W GS-Q Column diameter: 0.53



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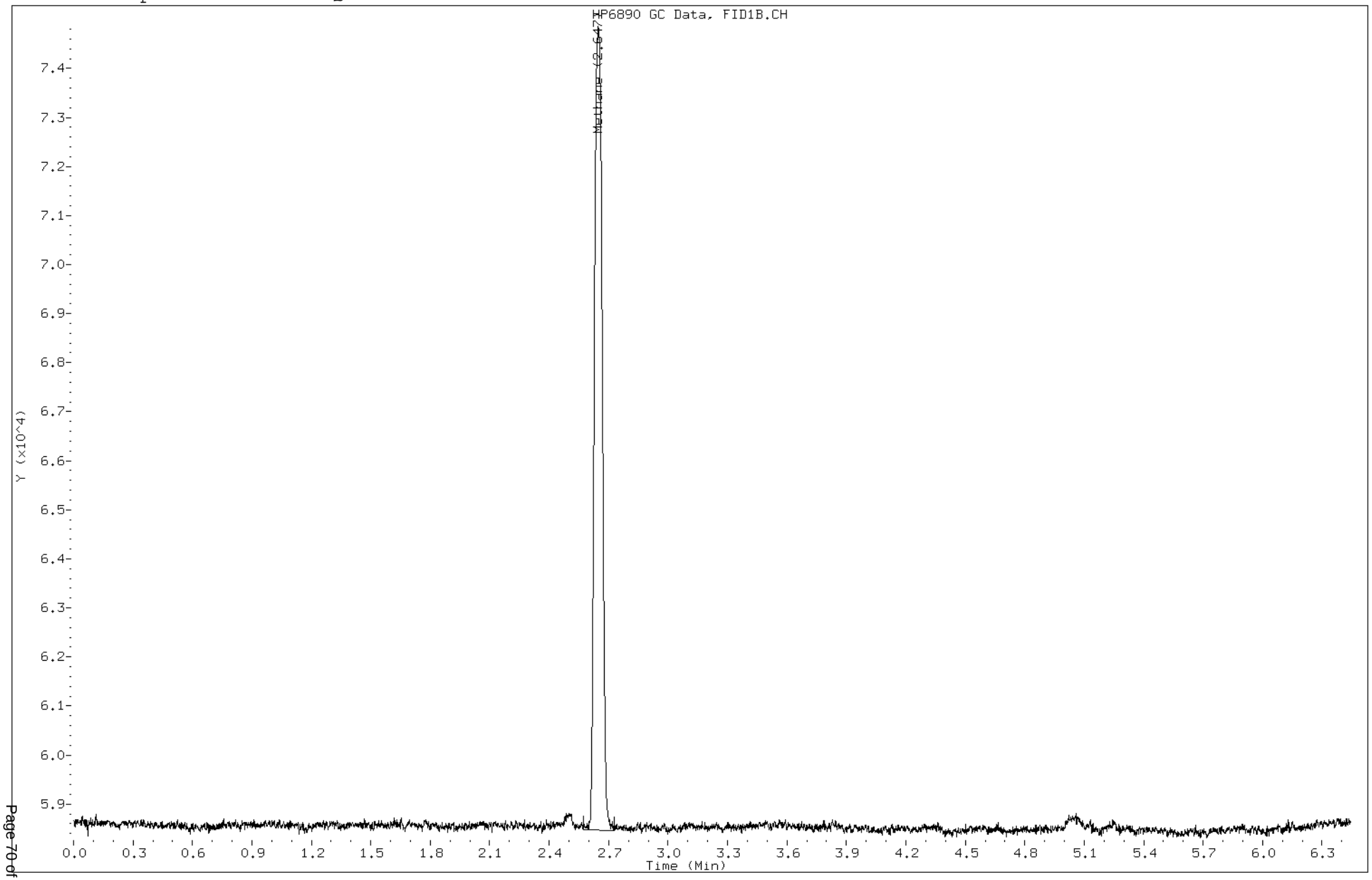

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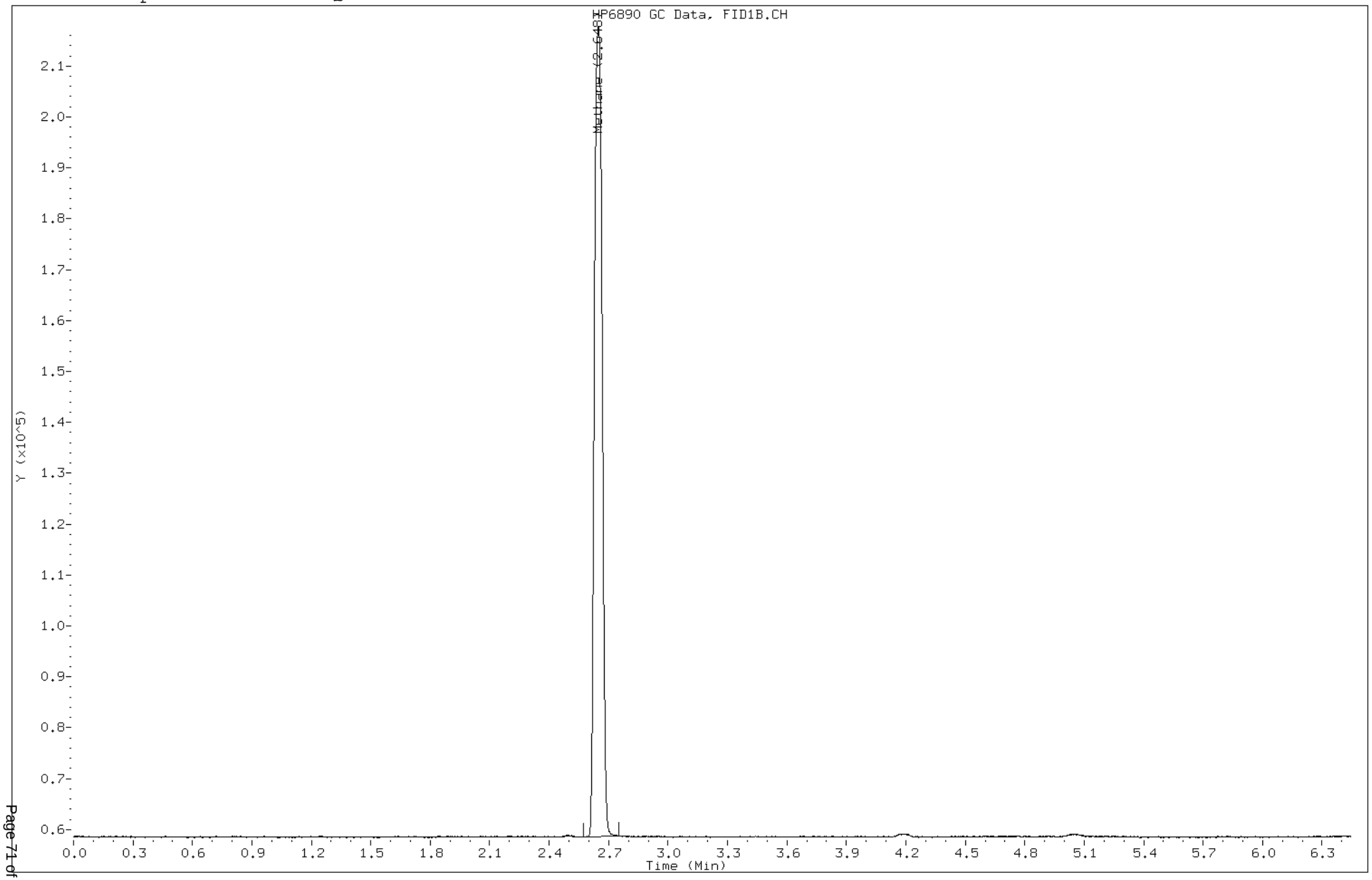

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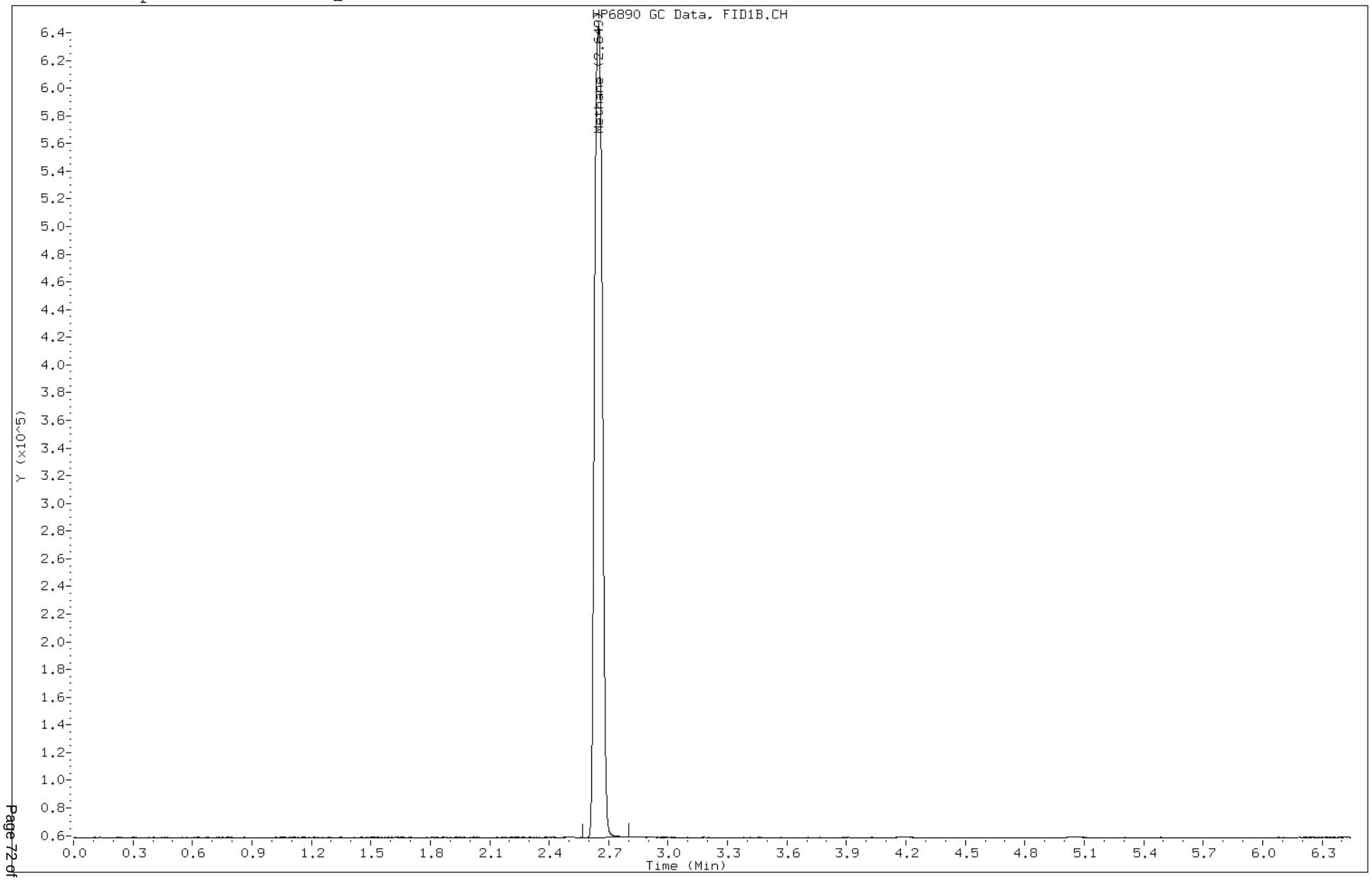

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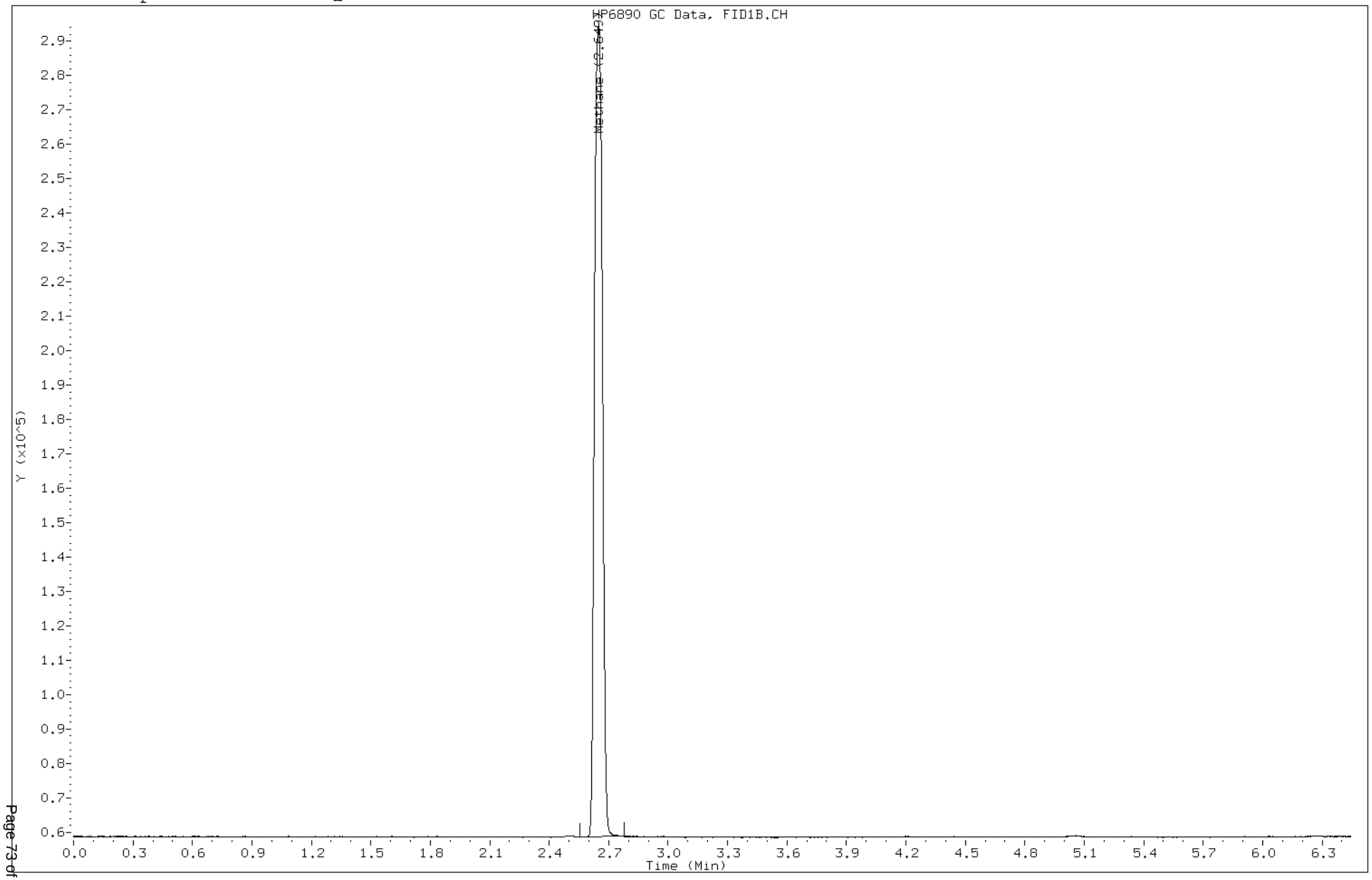

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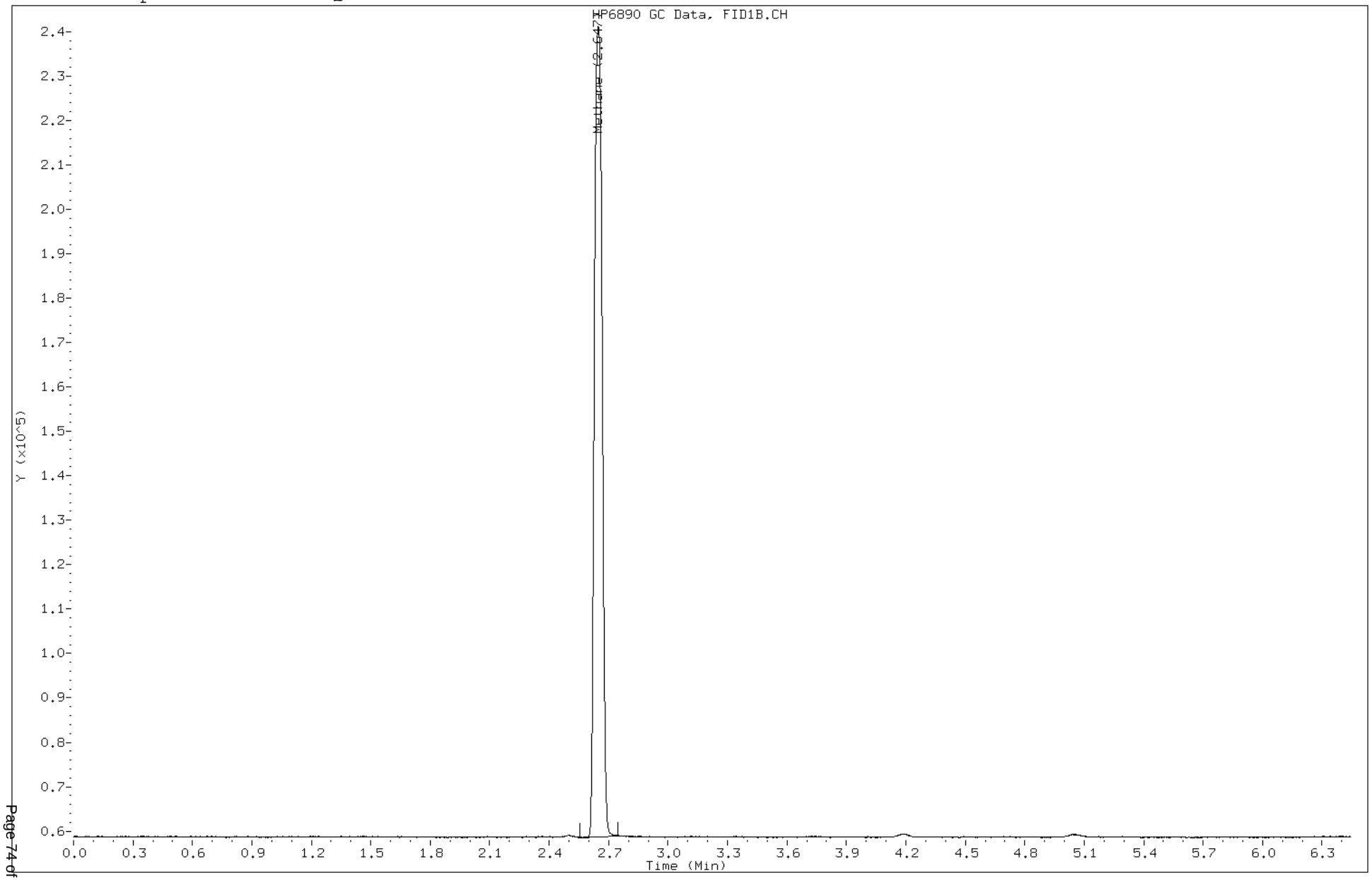
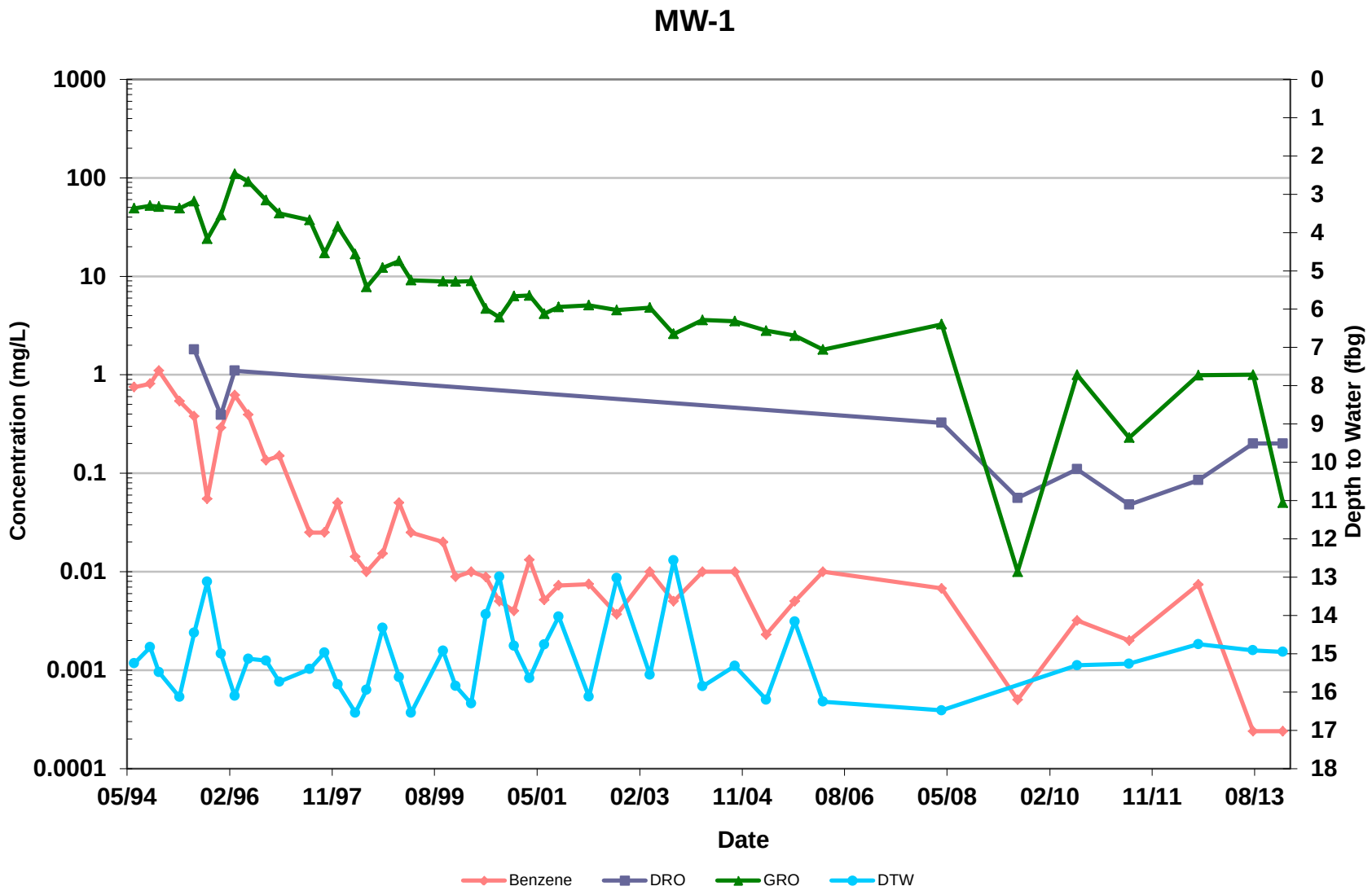
Column phase: J&W GS-Q Column diameter: 0.53



Appendix E

Petroleum Hydrocarbon Concentration Graphs



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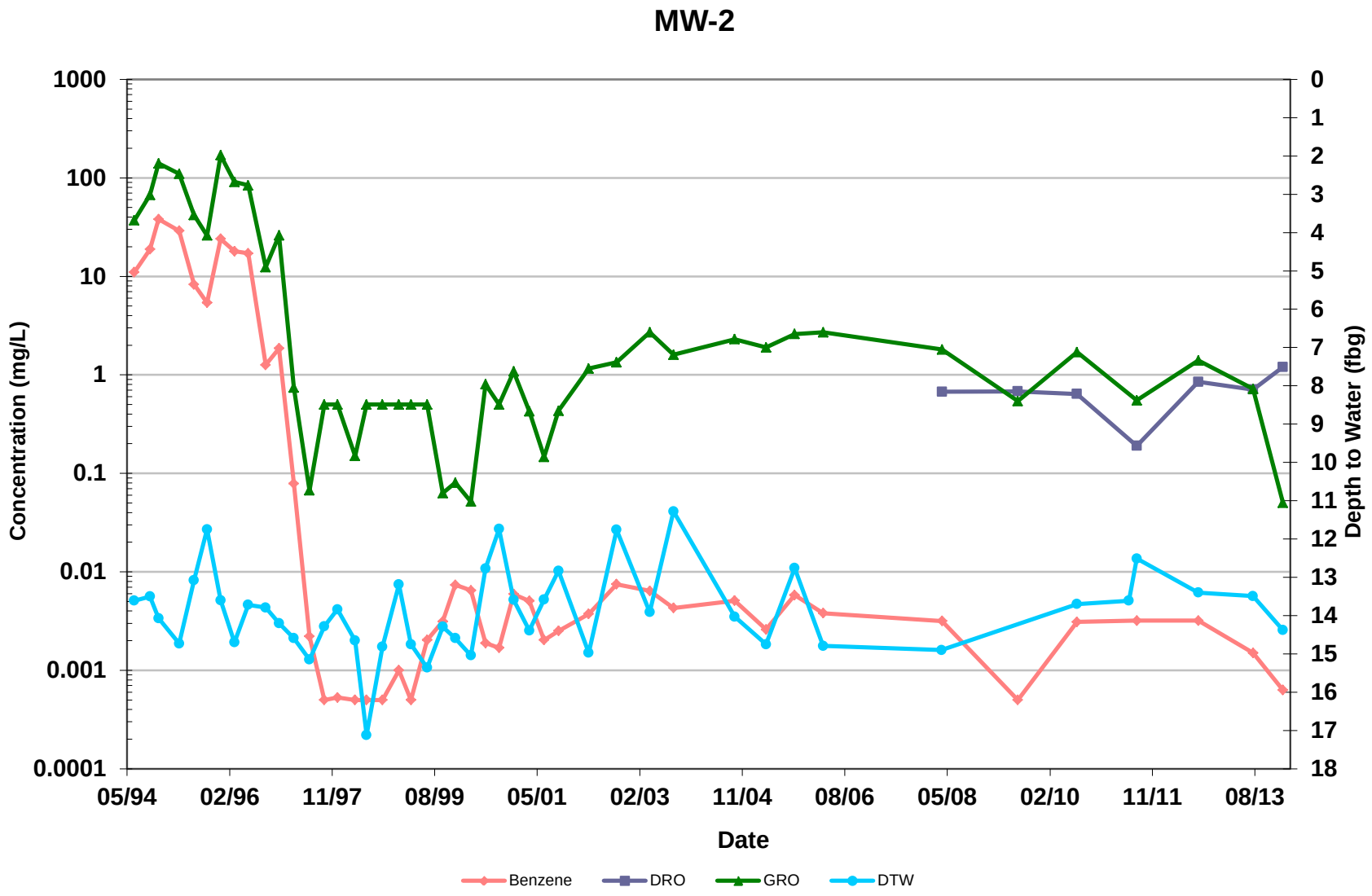
Fairbanks, Alaska



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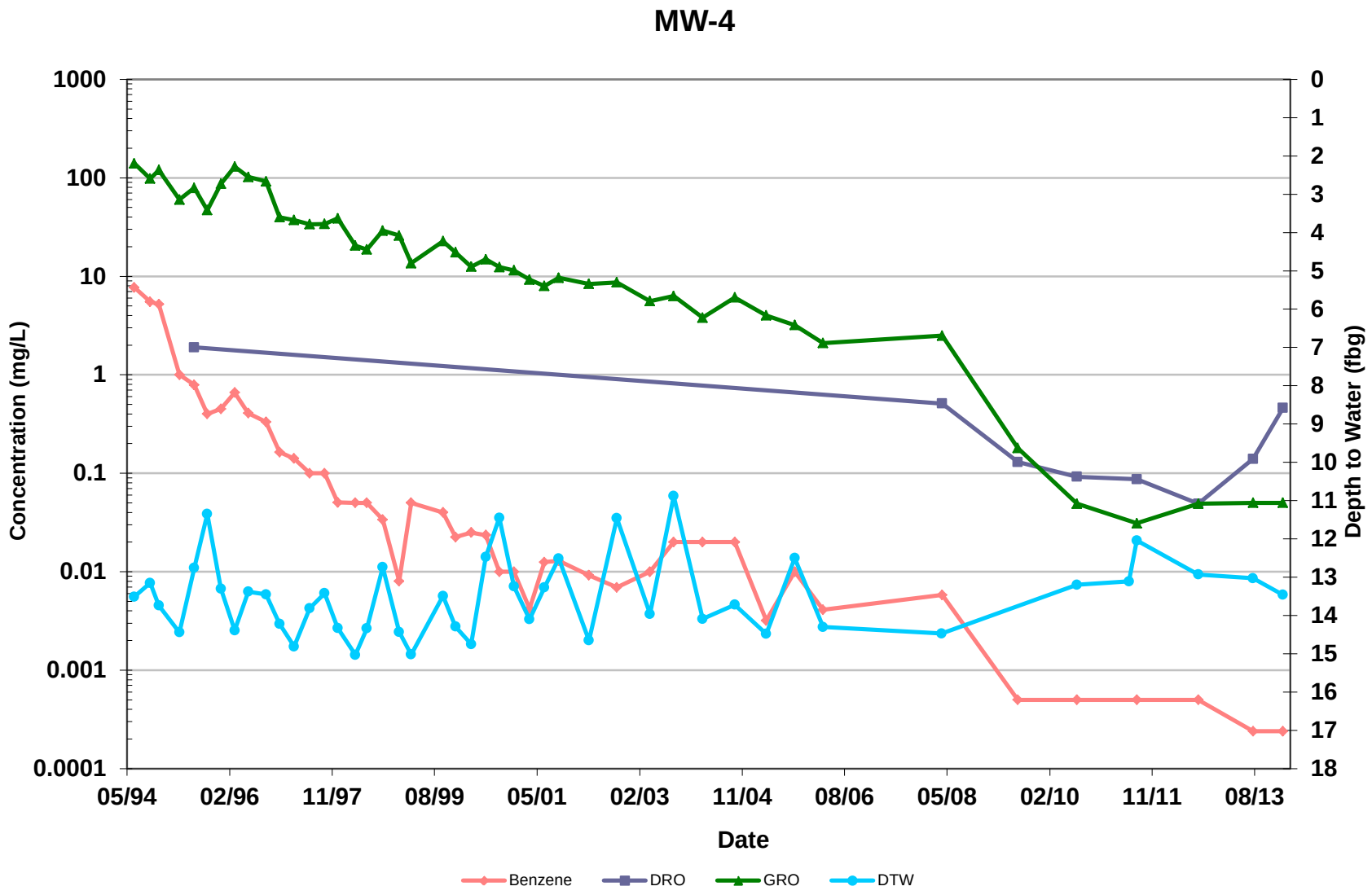

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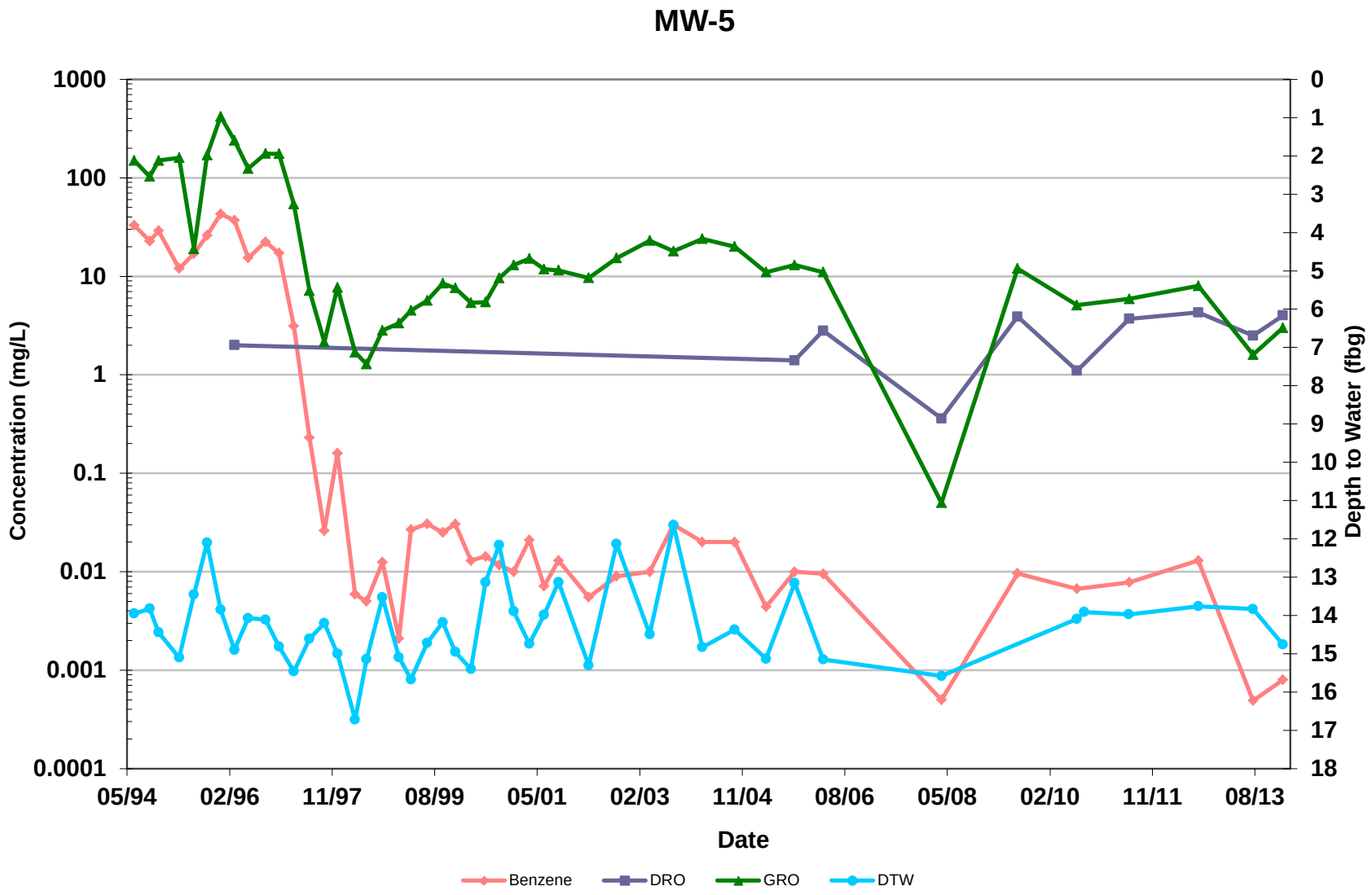

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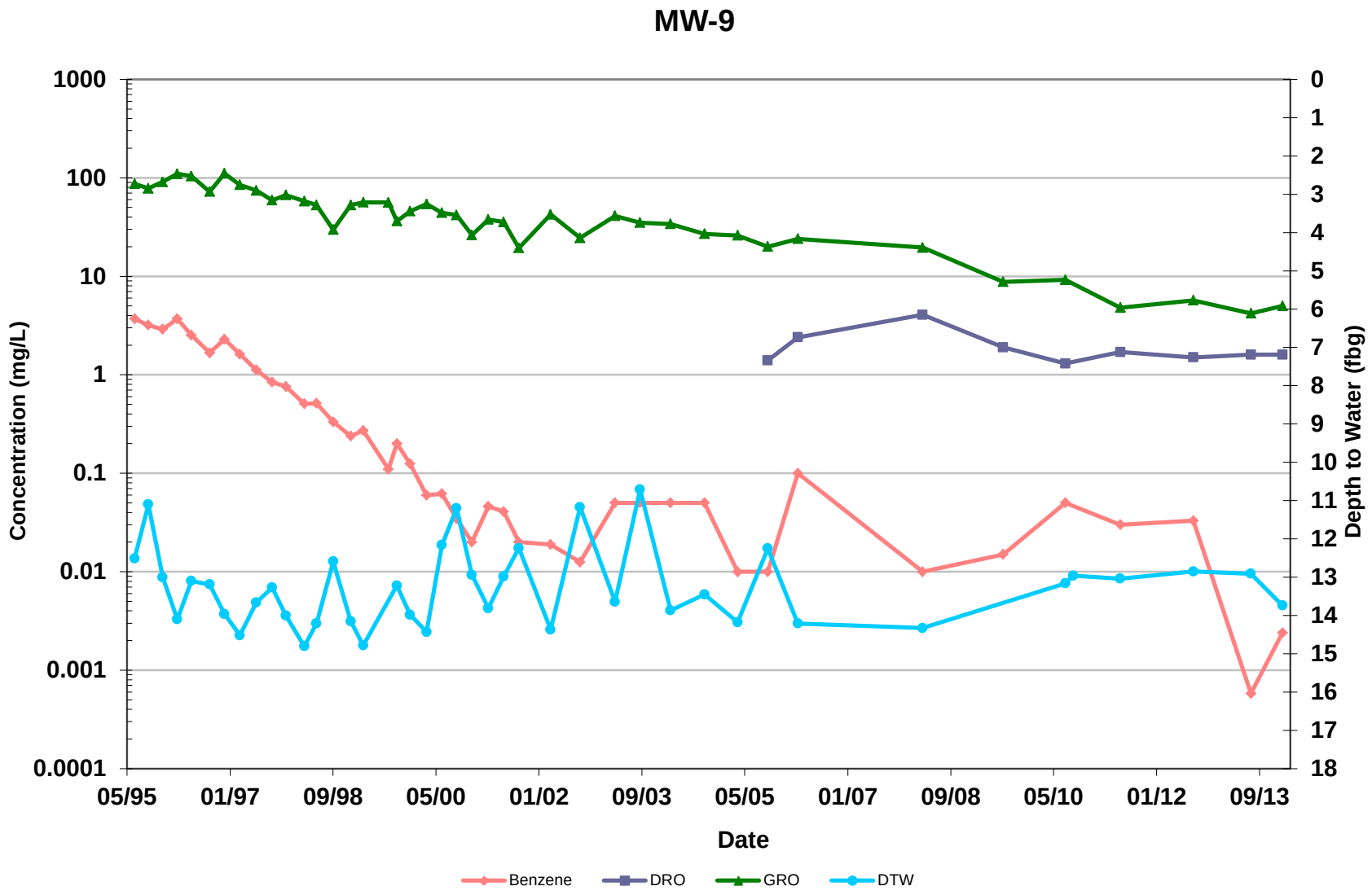
Fairbanks, Alaska



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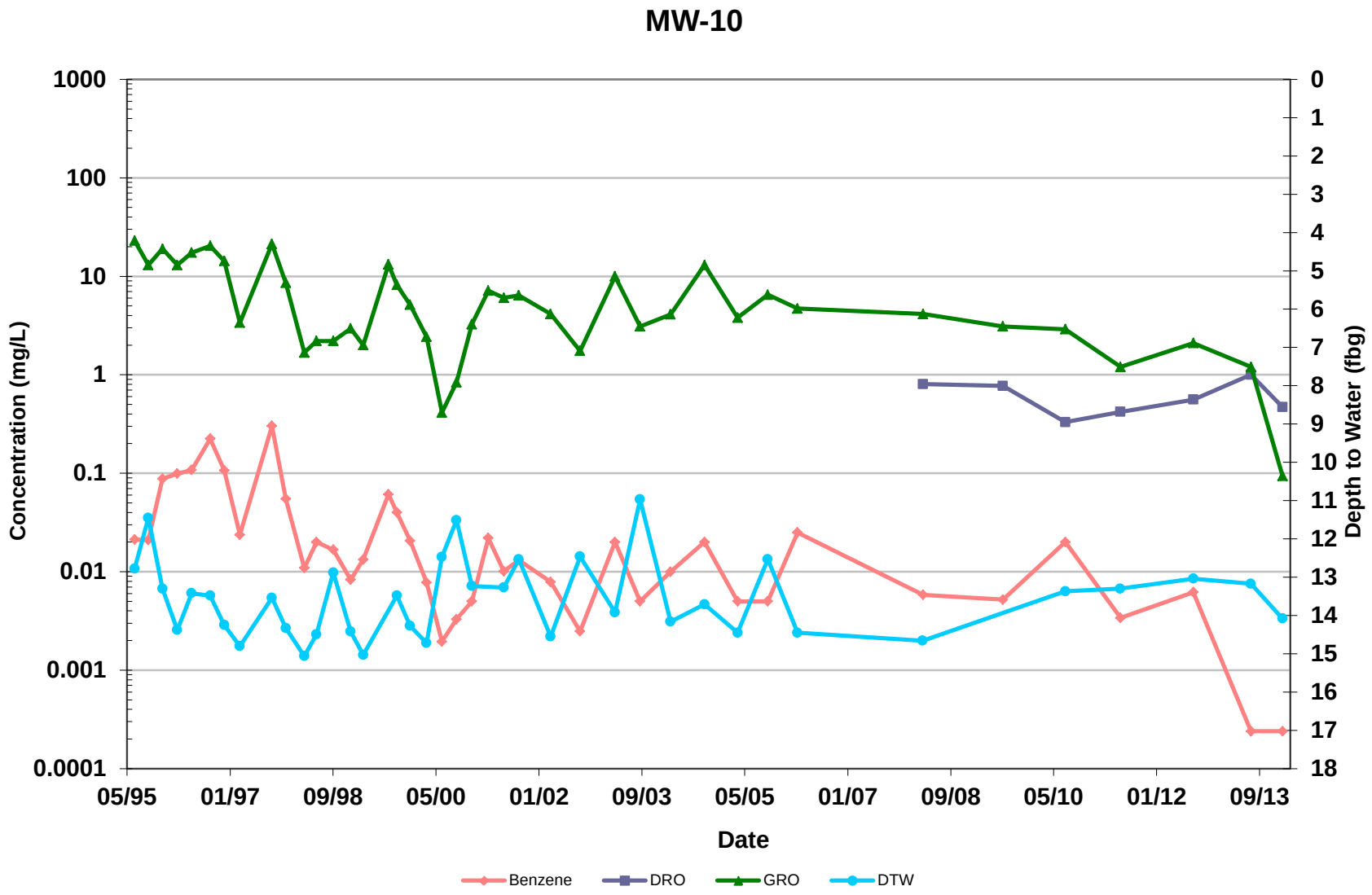

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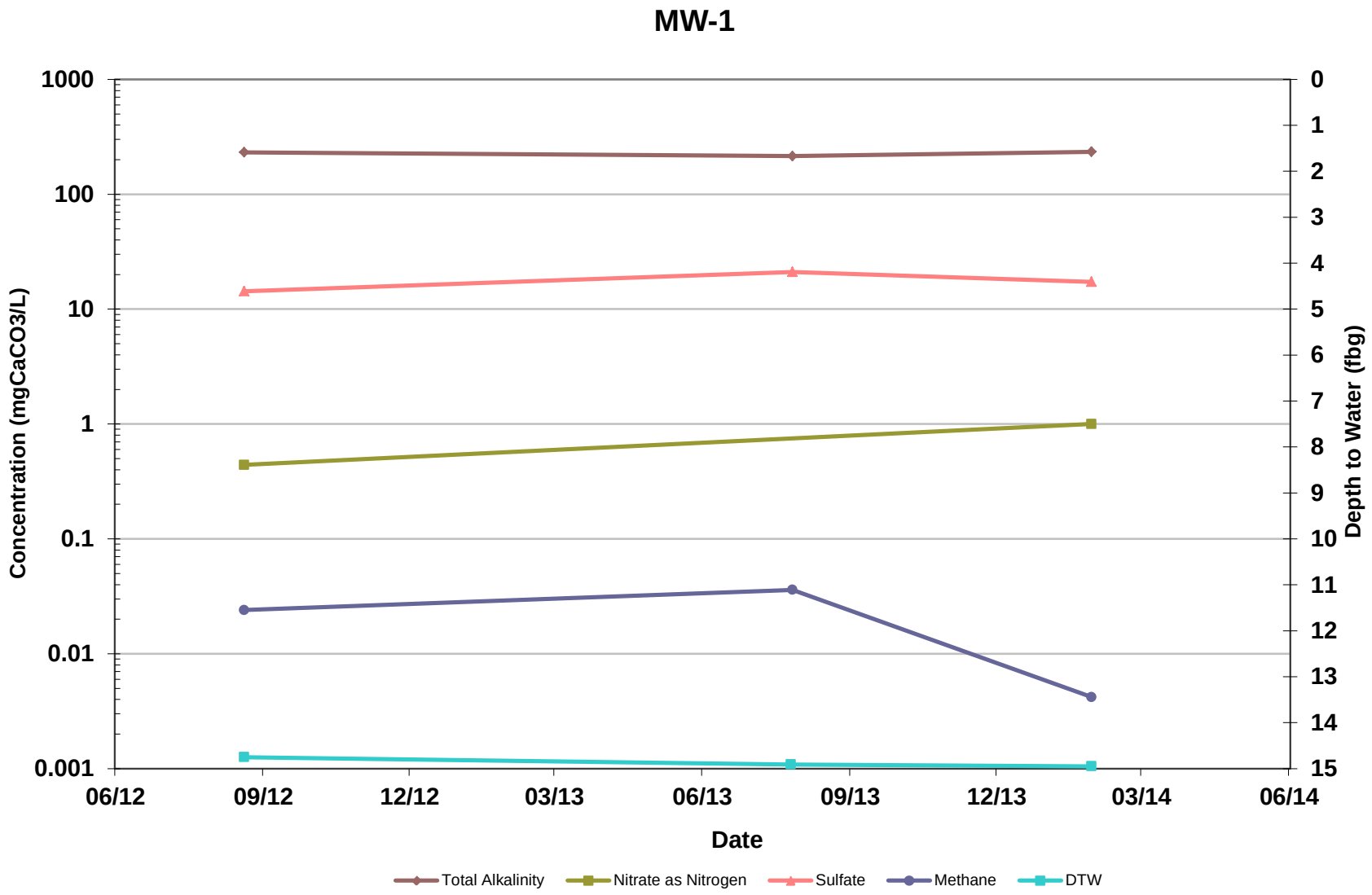

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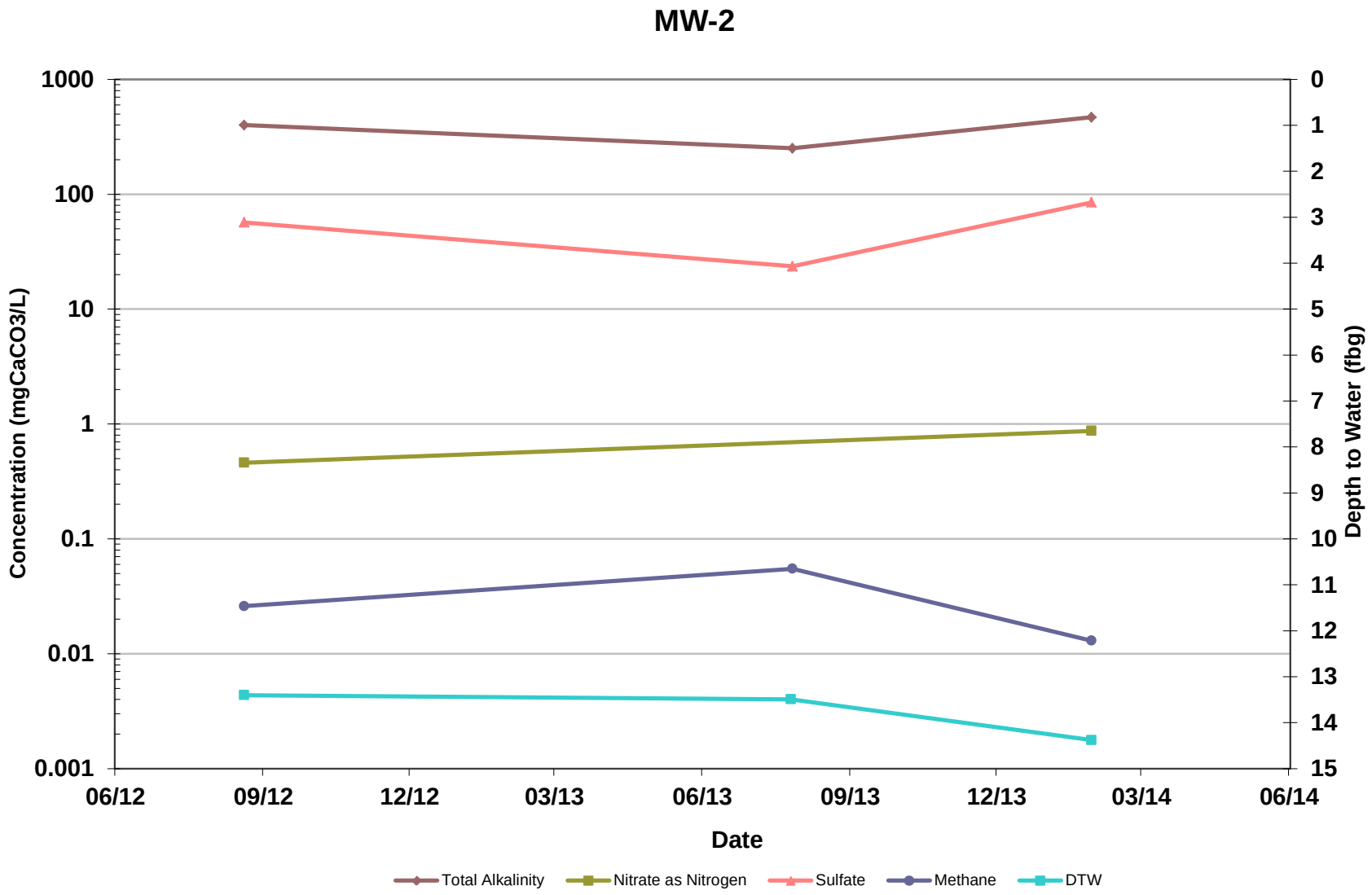

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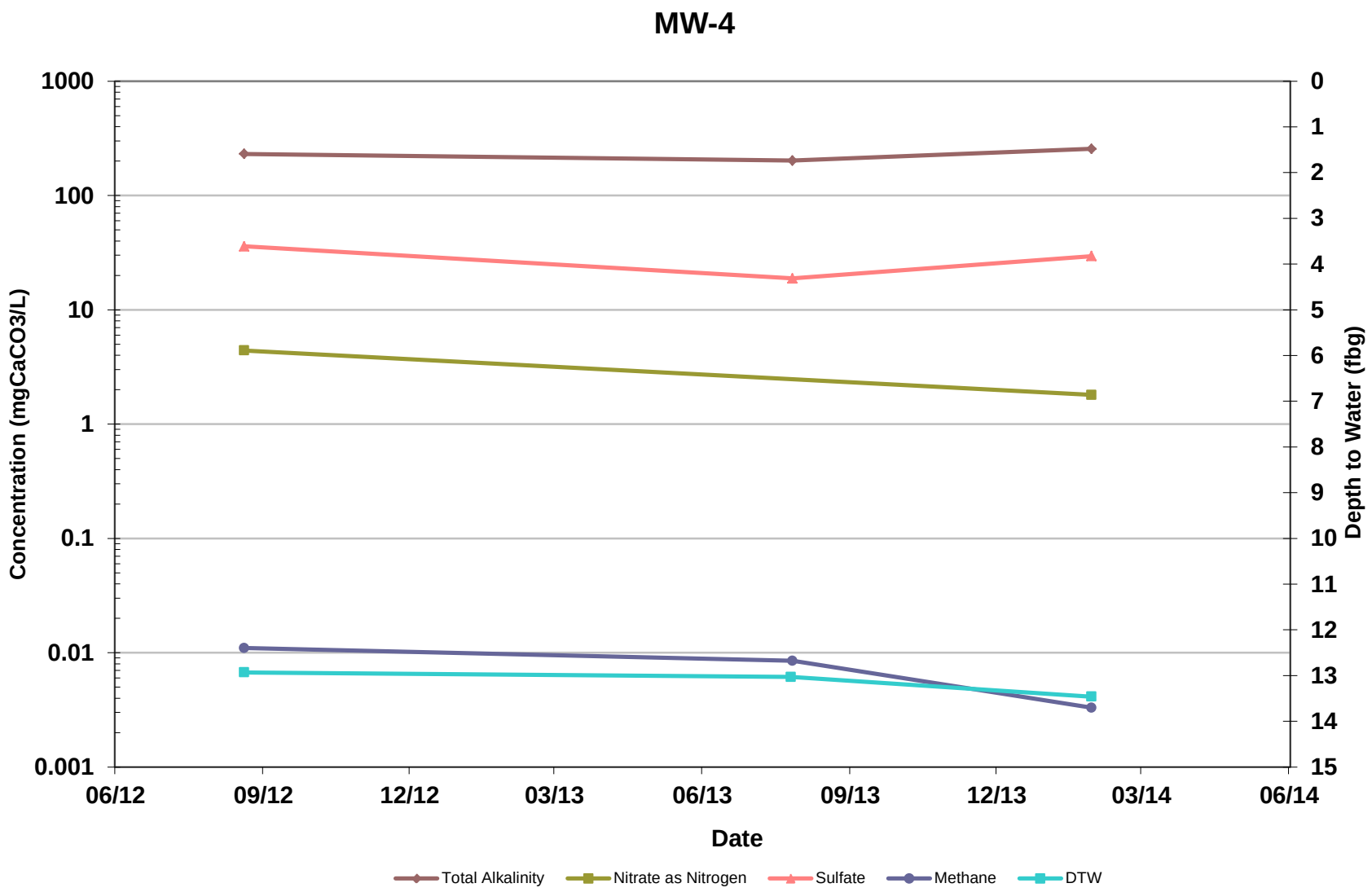

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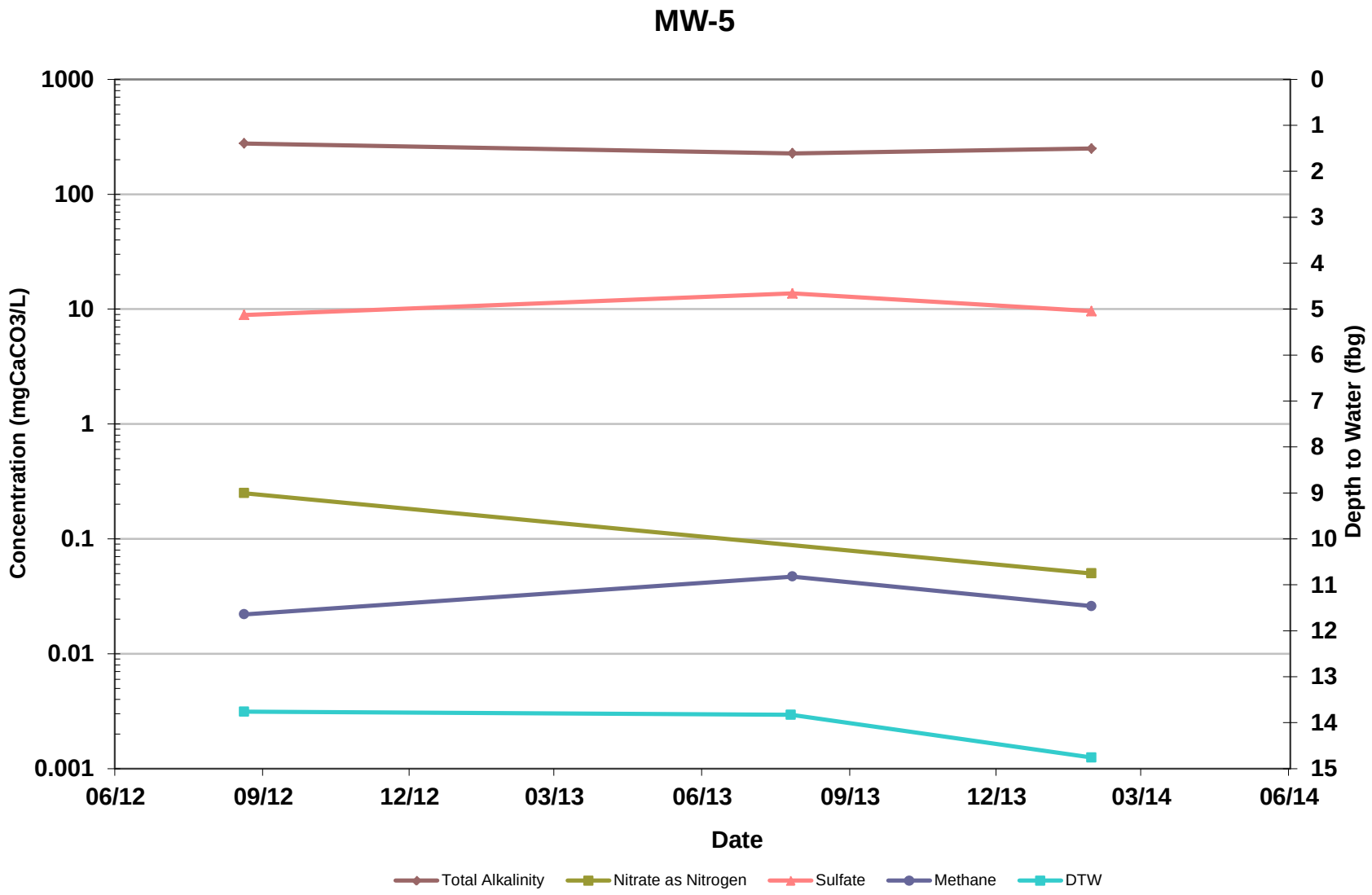

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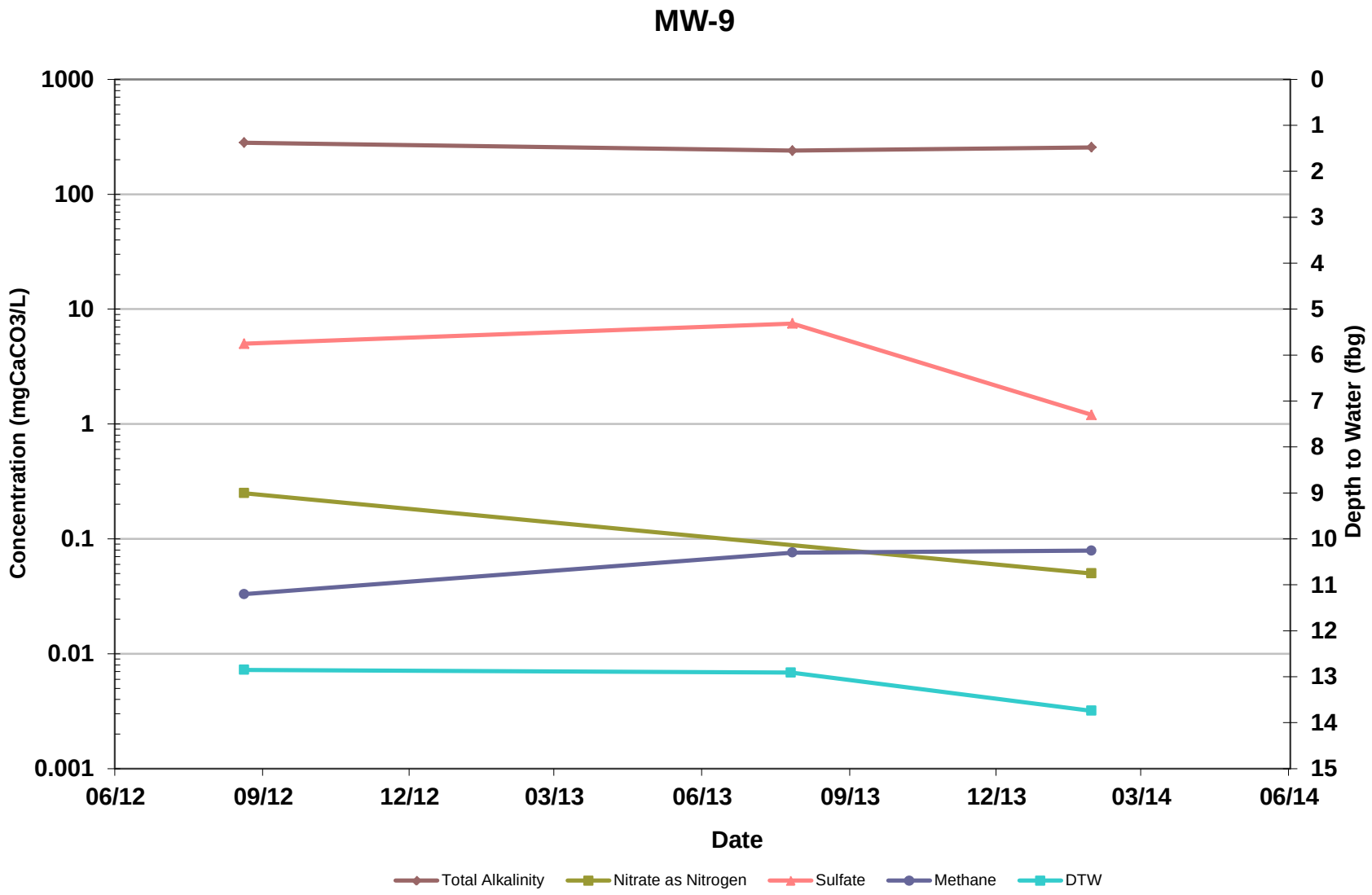

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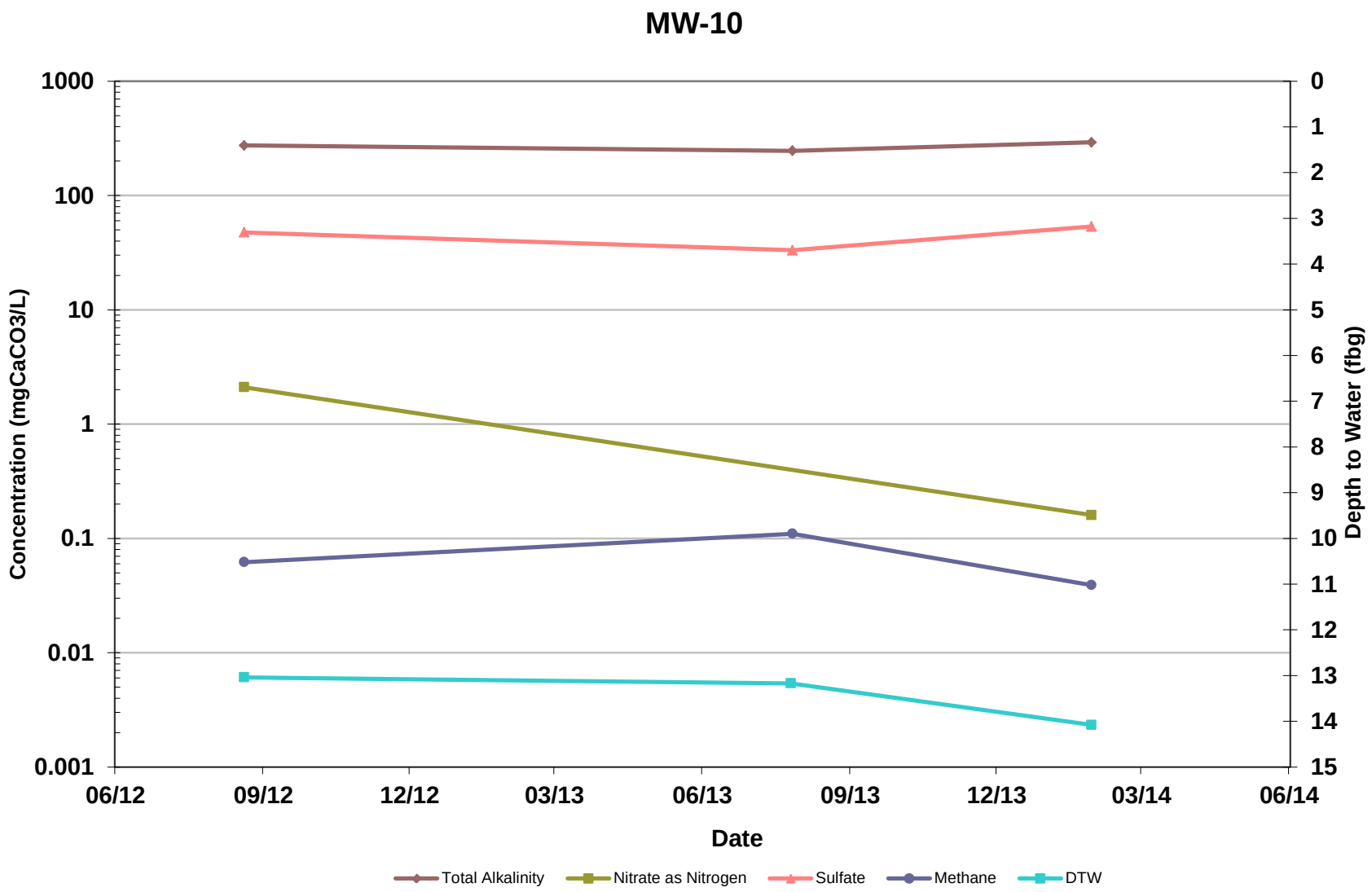

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Appendix F

ADEC Laboratory Data Review Checklist and Memorandum

Laboratory Data Review Checklist

Completed by: J Cloud

Title: Project Chemist Date: May 20, 2014

CS Report Name: Annual 2013 Groundwater Monitoring Report Report Date: 2/14/14

Consultant Firm: Conestoga-Rovers & Associates

Laboratory Name: Pace Analytical Services Laboratory Report Number: 10256484

ADEC File Number: 102.26.015 ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      X Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      X Yes ☐ No ☐NA (Please explain.) Comments:

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      X Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      X Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      X Yes ☐ No ☐NA (Please explain.) Comments:

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
      X Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
X Yes ☐ No ☐NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes ☐ No X NA (Please explain.) Comments:

No discrepancies

e. Data quality or usability affected? (Please explain.)
Comments:

None

4. Case Narrative
a. Present and understandable?
X Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
X Yes ☐ No ☐NA (Please explain.) Comments:

c. Were all corrective actions documented?
☐Yes ☐ No X NA (Please explain.) Comments:

No corrective actions

d. What is the effect on data quality/usability according to the case narrative?
Comments:

None

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
X Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

The nitrite analyses for samples MW-2, MW-4, MW-5 and DUP-1 and all ferrous iron analyses were run outside of the method specified hold time.

☐Yes X No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
☐Yes ☐ No X NA (Please explain.) Comments:

No soils

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
X Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

None

6. <u>QC Samples</u>
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      X Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      X Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

No affected samples

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No X NA (Please explain.) Comments:

No affected samples

      v. Data quality or usability affected? (Please explain.)
      Comments:

None

   b. Laboratory Control Sample/Duplicate (LCS/LCSD)

      i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

X Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
☐Yes X No ☐NA (Please explain.) Comments:

Alkalinity, sulfate and nitrite did not have project related duplicates

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
☐Yes X No ☐NA (Please explain.) Comments:

The nitrate+nitrite MS/MSD set had low recoveries

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
X Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

All samples analyzed for nitrate+nitrite

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
X Yes ☐ No ☐NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

All nitrate+nitrite and nitrate results were qualified as estimated due to the implied low bias

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
X Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
X Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No X NA (Please explain.) Comments:

No failed surrogates

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

None

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

X Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

X Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?

X Yes ☐ No ☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

No affected samples

v. Data quality or usability affected? (Please explain.)

Comments:

None

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

X Yes ☐ No ☐NA (Please explain.) Comments:

ii. Submitted blind to lab?

X Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes X No ☐NA (Please explain.) Comments:

DRO had a high RPD

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The DRO results for samples

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No X NA (Please explain.) Comments:

Not collected

i. All results less than PQL?

☐Yes ☐ No X NA (Please explain.) Comments:

Not collected

ii. If above PQL, what samples are affected?

Comments:

Not collected

iii. Data quality or usability affected? (Please explain.)

Comments:

Not collected

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

X Yes ☐ No ☐NA (Please explain.) Comments:

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MEMORANDUM

TO:	ADEC	REF. NO.:	065003
FROM:	Jeffrey Cloud	DATE:	May 20, 2014
CC:	Siobhan Pritchard		**Send via E-Mail and U.S. Mail**
RE:	**QA/QC Review** **ChevronTexaco Site 211079** **Job #10256484** **January 2014**		

INTRODUCTION

Groundwater samples were submitted to Pace Analytical Services, located in Minneapolis, Minnesota. Samples were analyzed for the methods requested on the Chain of Custody.

A full data package was received from Pace Analytical Services. The final results and supporting quality assurance/quality control (QA/QC) data were reviewed. Evaluation of the data was based on information obtained from the Chain of Custody forms, finished report forms, blank data, and spike recoveries.

QA/QC REVIEW

All samples were prepared and/or analyzed within the required holding times with a few exceptions. The nitrite analyses for samples MW-2, MW-4, MW-5 and DUP-1 and all ferrous iron analyses were run outside of the method specified hold time and the associated sample results were qualified as estimated. All samples were properly preserved and cooled after collection.

All appropriate samples and blanks were spiked with surrogate compounds prior to sample preparation and/or analysis in accordance with the organic methods. All surrogate spike recoveries met the associated method criteria indicating adequate analytical efficiency.

Method blanks were prepared and analyzed with the samples for all parameters. All blank results were non-detect for the analytes of interest.

Laboratory control samples (LCS) were analyzed in duplicate for all parameters. All recoveries were within required control limits showing adequate analytical accuracy and precision (where applicable).

Matrix spikes (MS) were prepared and analyzed for GRO, ferrous iron and nitrate+nitrite. All recoveries were within required control limits showing adequate analytical accuracy and precision with the exceptions of two low nitrate+nitrite recoveries. The associated nitrate+nitrite and nitrite results were qualified as estimated due to the implied low bias.

Trip blanks were collected and analyzed with the investigative samples. All trip blank results were non-detect for the compounds of interest.

A field duplicate was collected and submitted blind to the laboratory. The sample ID was MW-5 and its duplicate was DUP-1. A comparison of the results showed good analytical and sampling precision with the exception of a high DRO RPD. The DRO results for samples MW-5 and DUP-1 were qualified as estimated.

CONCLUSION

Based on the QA/QC review, the data submitted were judged to be acceptable for use with the qualifications noted.