WATTENBERG DISPOSAL, LLC

DENVER ENERGY CENTER

1675 BROADWAY, 28TH FLOOR

DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

FACSIMILE (303) 825-4825

WWW.KPK.COM

January 19, 2017

Mr. Don Breffle
United States EPA Region 8
8OC-EISC
1595 Wynkoop Street
Denver, CO 80202-1129

RE: Wattenberg Disposal, LLC
Suckla Farms Injection Well #1 – 2016 4th Quarter Report CO10938-02115

Dear Mr. Breffle;

Enclosed please find Wattenberg Disposal, LLC's (Wattenberg) Quarterly Injection Report for the period of October 1, 2016 through December 31, 2016, for the Suckla Farms Injection Well #1 facility (facility) located in the SWNW Section 10, T1N, R67W, in Weld County, Colorado.

Monthly analysis of waste fluid stored at the facility performed by Accutest Consulting Services has been included within the attached quarterly report. Comparison of the waste fluid analyses with the established three (3) year baseline has been included within the quarterly report. A slight change in specific gravity was observed during the sampling process during the fourth quarter of 2016. Additionally, the Semi-Annual Groundwater Monitoring Report by Apex Consulting Services is attached.

No seismic events with a magnitude of 2.5 or greater was recorded by the U.S. Geological Survey within fifty (50) miles of the facility.

The facility's cumulative injection meter was affected as a result of a power outage on October 28, 2016. As such, meter readings were not accurate from October 28, 2016, through January 9, 2017. On January 9, 2017, the injection meter was repaired and the cumulative injection total was correctly adjusted to capture injection activity since the malfunction.

Lease injection information, which details the volume and origin of injected fluids, was not included in the Suckla Farms Injection Well #1 – 3rd Quarter Report. As such, 2016 3rd and 4th quarter lease injection reports have been included in the attached submittal.

U2 Entered
Date 5/3/17
Initial DB

TAP | GREEN | BLUE | CBI
2 | CBI

WATTENBERG DISPOSAL, LLC

DENVER ENERGY CENTER

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DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

FACSIMILE (303) 825-4825

WWW.KPK.COM

January 19, 2017

Mr. James Taloumis
Environmental Health Specialist
Weld County Department of Public Health and Environment
1555 North 17th Ave.
Greeley, CO 80631

RE: Wattenberg Disposal, LLC
Suckla Farms Injection Well #1 – 2016 4th Quarter Report

Dear Mr. Taloumis;

Enclosed please find Wattenberg Disposal, LLC's (Wattenberg) Quarterly Injection Report for the period of October 1, 2016 through December 31, 2016, for the Suckla Farms Injection Well #1 facility (facility) located in the SWNW Section 10, T1N, R67W, in Weld County, Colorado.

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No seismic events with a magnitude of 2.5 or greater was recorded by the U.S. Geological Survey within fifty (50) miles of the facility.

If you have any questions or need additional information, please do not hesitate contacting me at 303-825-4822 or slaramesa@kpk.com

Sincerely,

Susana Lara-Mesa
VP of Engineering

Enclosures

Cc: Don Breffle, EPA
Eric Jacobs, CDPHE
Stuart Ellsworth, COGCC
KPK files

WATTENBERG DISPOSAL, LLC

DENVER ENERGY CENTER

1675 BROADWAY, 28TH FLOOR

DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

FACSIMILE (303) 825-4825

WWW.KPK.COM

January 19, 2017

Mr. Eric Jacobs
Colorado Department of Public Health and Environment
HM-WMD-B2
4300 Cherry Creek Drive South
Denver, CO 80246-1530

RE: Wattenberg Disposal, LLC
Suckla Farms Injection Well #1 – 2016 4th Quarter Report

Dear Mr. Jacobs;

Enclosed please find Wattenberg Disposal, LLC's (Wattenberg) Quarterly Injection Report for the period of October 1, 2016 through December 31, 2016, for the Suckla Farms Injection Well #1 facility (facility) located in the SWNW Section 10, T1N, R67W, in Weld County, Colorado.

Monthly analysis of waste fluid stored at the facility performed by Accutest Consulting Services has been included within the attached quarterly report. Comparison of the waste fluid analyses with the established three (3) year baseline has been included within the quarterly report. A slight change in specific gravity was observed during the sampling process during the fourth quarter of 2016. Additionally, the Semi-Annual Groundwater Monitoring Report by Apex Consulting Services is attached.

No seismic events with a magnitude of 2.5 or greater was recorded by the U.S. Geological Survey within fifty (50) miles of the facility.

If you have any questions or need additional information, please do not hesitate contacting me at 303-825-4822 or slaramesa@kpk.com

Sincerely,

Susana Lara-Mesa
VP of Engineering

Enclosures

Cc: Don Breffle, EPA
James Taloumis, WCDPHE
Stuart Ellsworth, COGCC
KPK files

If you have any questions or need additional information, please do not hesitate contacting me at 303-825-4822 or slaramesa@kpk.com

Sincerely,

Susana Lara-Mesa
VP of Engineering

Enclosures

Cc: Eric Jacobs, CDPHE
Stuart Ellsworth, COGCC
James Taloumis, WCDPHE
KPK files

WATTENBERG DISPOSAL, LLC

Suckla Farms Injection Well #1
Class I Nonhazardous Industrial Waste
Permit # CO10938-02115

Weld County, Colorado

2016 4th Quarter Report

Table of Contents

1. 4th Quarter 2016 EPA Injection Well Monitoring Report
   a. October 2016 Injection Report
   b. November 2016 Injection Report
   c. December 2016 Injection Report

2. 4th Quarter 2016 Analog Charts

3. 4th Quarter 2016 Waste Fluid Baseline Analysis
   a. October 2016 Waste Fluid Analysis
   b. November 2016 Waste Fluid Analysis
   c. December 2016 Waste Fluid Analysis

4. 3rd Quarter Lease Injection Data

5. 4th Quarter Lease Injection Data

6. Semi-Annual Groundwater Monitoring Report

OMB No. 2040-0042 Approval Expires 12/31/2018

EPA

United States Environmental Protection Agency
Washington, DC 20460

Injection Well Monitoring Report

Year 2016	Month	Month	Month
Injection Pressure (PSI)	October	November	December
1. Minimum	0.00	367.93	469.03
2. Average	307.73	0.00	0.00
3. Maximum	639.32	665.00	775.00
Injection Rate (Gal/Min)	October	November	December
1. Minimum	0.00	0.00	0.00
2. Average	6.96	12.57	9.68
3. Maximum	21.67	42.20	22.60
Annular Pressure (PSI)	October	November	December
1. Minimum	110.00	110.00	110.00
2. Average	119.68	110.00	110.00
3. Maximum	120.00	110.00	110.00
Injection Volume (Gal)	October	November	December
1. Monthly Total	310926	553224	432054
2. Yearly Cumulative	4145610	4698834	5130888
Temperature (F °)	October	November	December
1. Minimum	40	24	-6
2. Average	56	44	28
3. Maximum	68	61	46
pH	October	November	December
1. Minimum	6.3	6.5	7.3
2. Average	6.3	6.5	7.3
3. Maximum	6.3	6.5	7.3
Other	October	November	December
Class I - Non-Hazardous	0	0	0
Class I - Non-Hazardous Cumlative	0	0	0

Name and Address of Permittee		Permit Number
Wattenberg Disposal, LLC, 8979 WCR 22, Ft. Lupton, CO 80621		CO-10938-2115
Name and Official Title *(Please type or print)*	**Signature**	**Date Signed**
Susana Lara-Mesa, VP of Engineering	Slaraw	01/17/2017

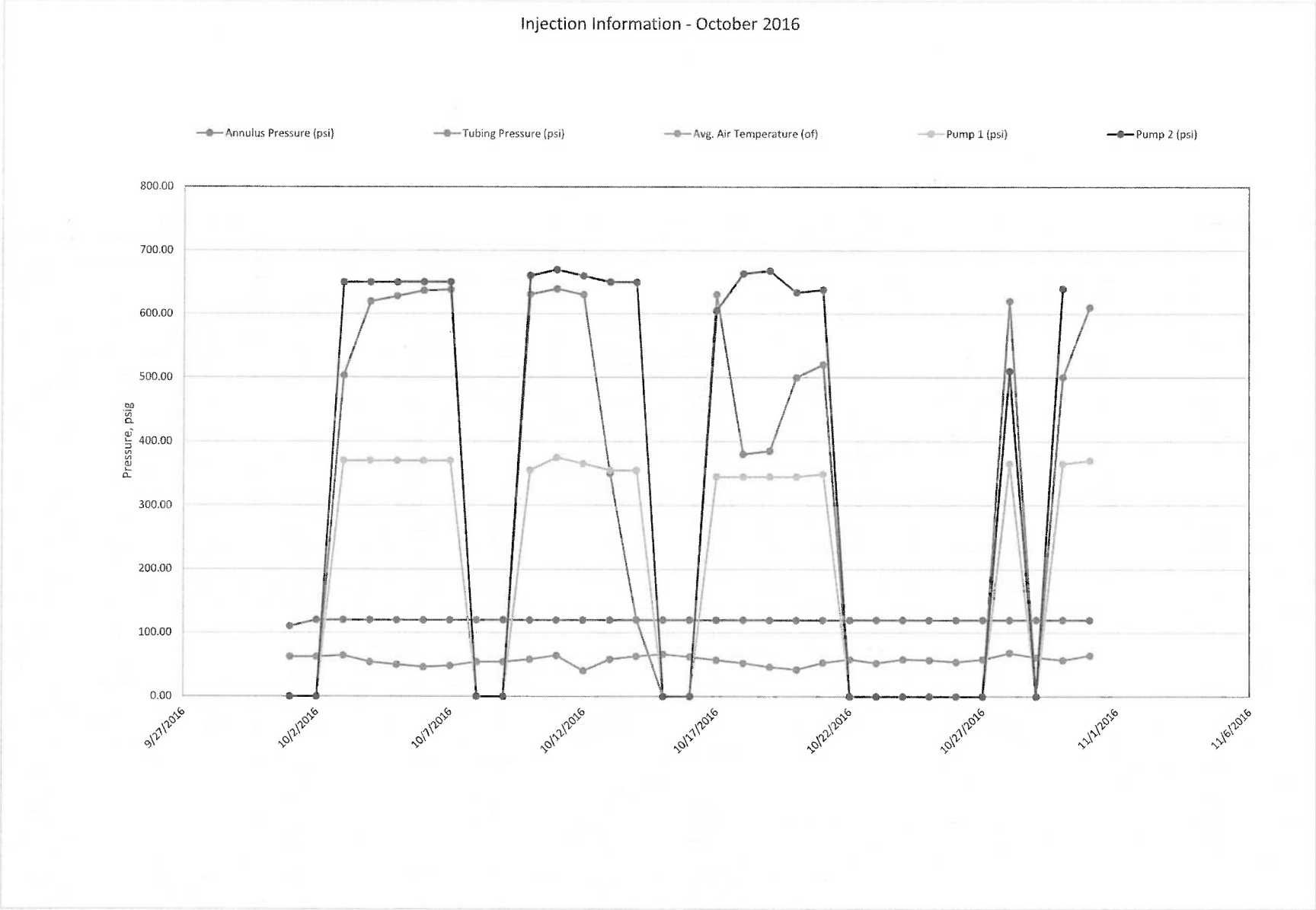
EPA Form 7520-8 (Rev. 12-11)

Paperwork Reduction Act

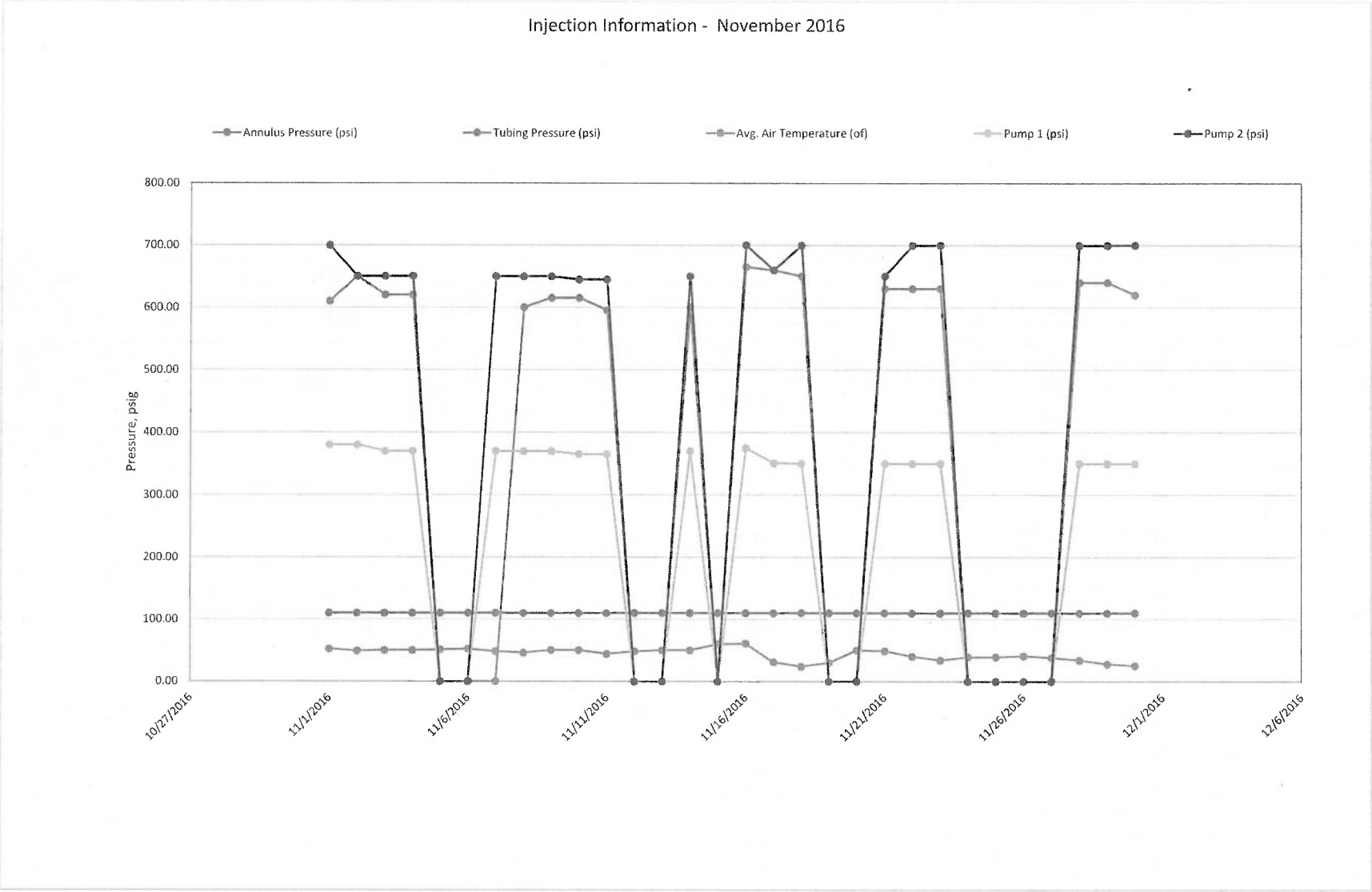
The public reporting and record keeping burden for this collection of information is estimated to average 25 hours per quarter for operators of Class I hazardous wells, 16 hours per quarter for operators of Class I non-hazardous wells, and 30 hours per quarter for operators of Class III wells.

Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

Date	Injecting Fluid?	Pressured Annulus?	Injection Rate (bbl/day)	Tubing Pressure (psi)	Annulus Pressure (psi)	Initial Volume Meter (bbl)	Final Volume Meter (bbl)	Volume Injected (bbl)	Hauled DCP (bbl)	Hauled KPK (bbl)	Avg. Air Temperature (°f)	Pump 1 (psi)	Pump 2 (psi)
10/1/2016	No	Yes	0.00	0.00	110.00	887079	887079	0	0	0	62	0	0
10/2/2016	No	Yes	0.00	0.00	120.00	887079	887079	0	0	0	62	0	0
10/3/2016	Yes	Yes	563.00	503.09	120.00	887079	887642	563	0	370	64	370	650
10/4/2016	Yes	Yes	270.00	619.17	120.00	887642	887912	270	0	460	54	370	650
10/5/2016	Yes	Yes	377.00	627.72	120.00	887912	888289	377	0	670	50	370	650
10/6/2016	Yes	Yes	514.00	636.39	120.00	888289	888803	514	0	710	46	370	650
10/7/2016	Yes	Yes	499.00	638.03	120.00	888803	889302	499	0	405	48	370	650
10/8/2016	No	Yes	0.00	0.00	120.00	889302	889302	0	0	0	54	0	0
10/9/2016	No	Yes	0.00	0.00	120.00	889302	889302	0	0	0	54	0	0
10/10/2016	Yes	Yes	743.00	630.66	120.00	889302	890045	743	0	670	58	355	660
10/11/2016	Yes	Yes	486.00	639.32	120.00	890045	890531	486	0	710	64	375	670
10/12/2016	Yes	Yes	379.00	630.00	120.00	890531	890910	379	0	720	40	365	660
10/13/2016	Yes	Yes	648.00	350.00	120.00	890910	891558	648	0	925	58	355	650
10/14/2016	Yes	Yes	302.00	120.21	120.00	891558	891860	302	0	380	63	355	650
10/15/2016	No	Yes	0.00	0.00	120.00	891860	891860	0	0	0	66	0	0
10/16/2016	No	Yes	0.00	0.00	120.00	891860	891860	0	0	0	62	0	0
10/17/2016	Yes	Yes	279.00	630.00	120.00	891860	892139	279	0	490	57	345	605
10/18/2016	Yes	Yes	204.00	380.00	120.00	892139	892343	204	0	830	52	345	663
10/19/2016	Yes	Yes	524.00	385.00	120.00	892343	892867	524	0	260	46	345	668
10/20/2016	Yes	Yes	321.00	500.00	120.00	892867	893188	321	0	650	42	345	634
10/21/2016	Yes	Yes	156.00	520.00	120.00	893188	893344	156	0	640	53	349	638
10/22/2016	No	Yes	0.00	0.00	120.00	893344	893344	0	0	0	58	0	0
10/23/2016	No	Yes	0.00	0.00	120.00	893344	893344	0	0	0	52	0	0
10/24/2016	No	Yes	0.00	0.00	120.00	893344	893344	0	0	0	58	0	0
10/25/2016	No	Yes	0.00	0.00	120.00	893344	893344	0	0	0	57	0	0
10/26/2016	No	Yes	0.00	0.00	120.00	893344	893344	0	0	0	54	0	0
10/27/2016	No	Yes	0.00	0.00	120.00	893344	893344	0	0	0	58	0	0
10/28/2016	Yes	Yes	281.00	620.00	120.00	700800	701081	281	0	0	68	365	510
10/29/2016	No	Yes	0.00	0.00	120.00	701081	701081	0	0	0	61	0	0
10/30/2016	Yes	Yes	199.00	500.00	120.00	701081	701280	199	0	0	57	365	640
10/31/2016	Yes	Yes	658.00	610.00	120.00	701280	701938	658	0	865	64	370	650
Average			238.81	307.73	119.68								
Minimum			0.00	0.00	110.00								
Maximum			743.00	639.32	120.00								
TOTAL								7403	0	9755			

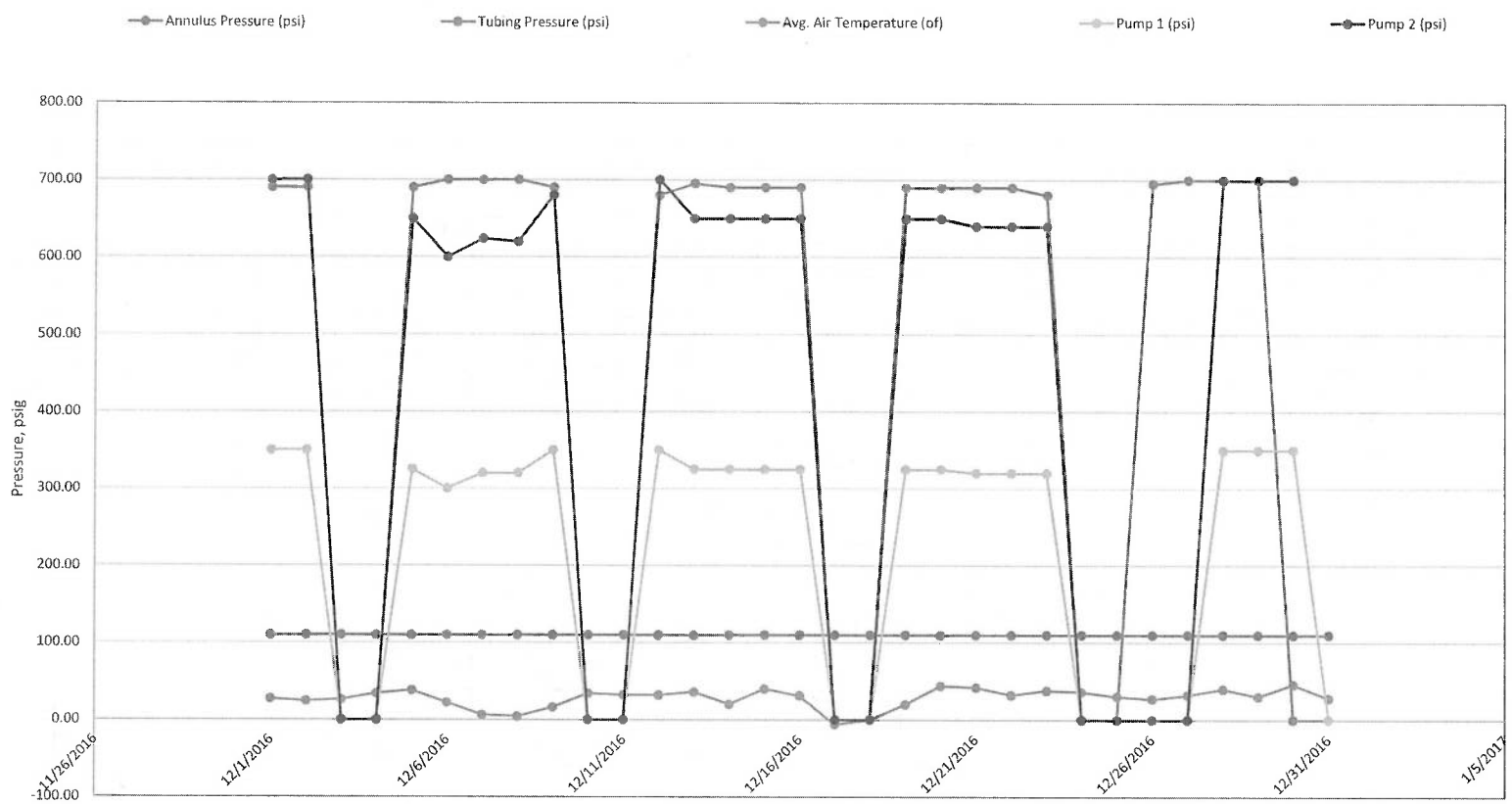

Injection Information - October 2016
Annulus Pressure (psi)
Tubing Pressure (psi)
Avg. Air Temperature (of)
Pump 1 (psi)
Pump 2 (psi)
Pressure, psig
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
9/27/2016
10/2/2016
10/7/2016
10/12/2016
10/17/2016
10/22/2016
10/27/2016
11/1/2016
11/6/2016

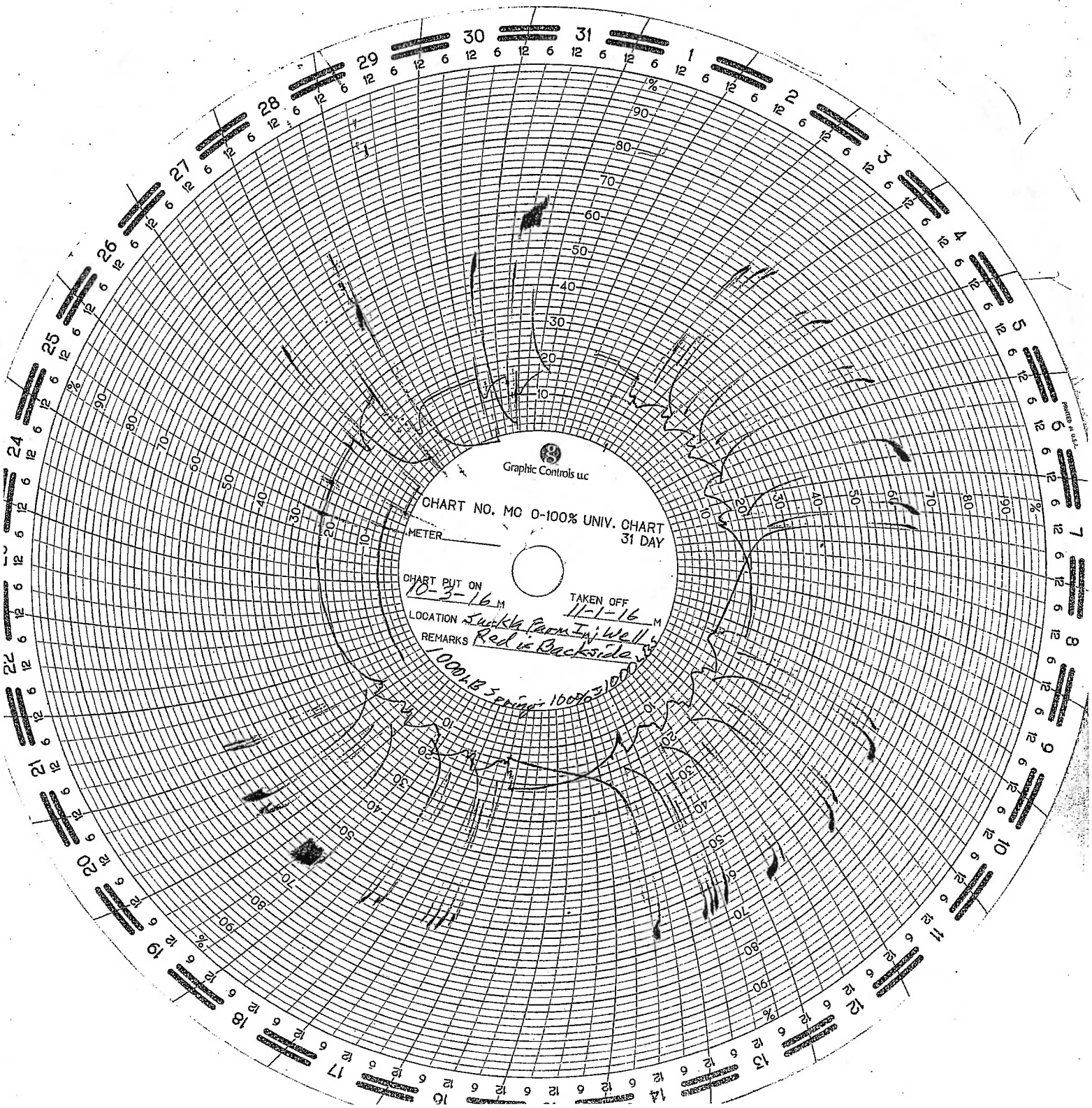
Date	Injecting Fluid?	Pressured Annulus?	Injection Rate (bbl/day)	Tubing Pressure (psi)	Annulus Pressure (psi)	Initial Volume Meter (bbl)	Final Volume Meter (bbl)	Volume Injected (bbl)	Hauled DCP (bbl)	Hauled KPK (bbl)	Avg. Air Temperature (°f)	Pump 1 (psi)	Pump 2 (psi)
11/1/2016	Yes	Yes	875.00	610.00	110.00	701938	702813	875	0	730	52	380	700
11/2/2016	Yes	Yes	716.00	650.00	110.00	702813	703529	716	0	455	49	380	650
11/3/2016	Yes	Yes	776.00	620.00	110.00	703529	704305	776	0	1130	50	370	650
11/4/2016	Yes	Yes	1447.00	620.00	110.00	703529	704976	1447	0	840	50	370	650
11/5/2016	No	No	0.00	0.00	110.00	704976	704976	0	0	0	51	0	0
11/6/2016	No	No	0.00	0.00	110.00	704976	704976	0	0	0	52	0	0
11/7/2016	No	No	0.00	0.00	110.00	704976	704976	0	0	260	48	370	650
11/8/2016	Yes	Yes	342.00	600.00	110.00	704976	705318	342	0	490	46	370	650
11/9/2016	Yes	Yes	905.00	615.00	110.00	705318	706223	905	0	665	50	370	650
11/10/2016	Yes	Yes	820.00	615.00	110.00	706223	707043	820	0	930	50	365	645
11/11/2016	Yes	Yes	742.00	595.00	110.00	707043	707785	742	0	590	44	365	645
11/12/2016	Yes	No	0.00	0.00	110.00	707785	707785	0	0	0	48	0	0
11/13/2016	No	No	0.00	0.00	110.00	707785	707785	0	0	0	50	0	0
11/14/2016	Yes	Yes	804.00	600.00	110.00	707785	708589	804	0	715	50	370	650
11/15/2016	Yes	No	0.00	0.00	110.00	708589	708589	0	0	0	60	0	0
11/16/2016	Yes	Yes	393.00	665.00	110.00	708589	708982	393	0	810	61	375	700
11/17/2016	Yes	Yes	783.00	660.00	110.00	708982	709765	783	0	610	31	351	660
11/18/2016	Yes	Yes	453.00	650.00	110.00	709765	710218	453	0	645	24	350	700
11/19/2016	Yes	No	0.00	0.00	110.00	710218	710218	0	0	0	30	0	0
11/20/2016	Yes	No	0.00	0.00	110.00	710218	710218	0	0	0	50	0	0
11/21/2016	Yes	Yes	618.00	630.00	110.00	710218	710836	618	0	625	49	350	650
11/22/2016	Yes	Yes	710.00	630.00	110.00	710836	711546	710	0	1180	40	350	700
11/23/2016	Yes	Yes	810.00	630.00	110.00	711546	712356	810	0	980	34	350	700
11/24/2016	Yes	No	0.00	0.00	110.00	712356	712356	0	0	0	39	0	0
11/25/2016	Yes	No	0.00	0.00	110.00	712356	712356	0	0	0	39	0	0
11/26/2016	Yes	No	0.00	0.00	110.00	712356	712356	0	0	0	41	0	0
11/27/2016	Yes	No	0.00	0.00	110.00	712356	712356	0	0	0	38	0	0
11/28/2016	Yes	Yes	686.00	640.00	110.00	712356	713042	686	0	670	34	350	700
11/29/2016	Yes	Yes	615.00	640.00	110.00	713042	713657	615	0	800	28	350	700
11/30/2016	Yes	Yes	677.00	620.00	110.00	713657	714334	677	0	740	25	350	700
Average			430.86	367.93	110.00								
Minimum			0.00	0.00	110.00								
Maximum			1447.00	665.00	110.00								
TOTAL								13172	0	13865			

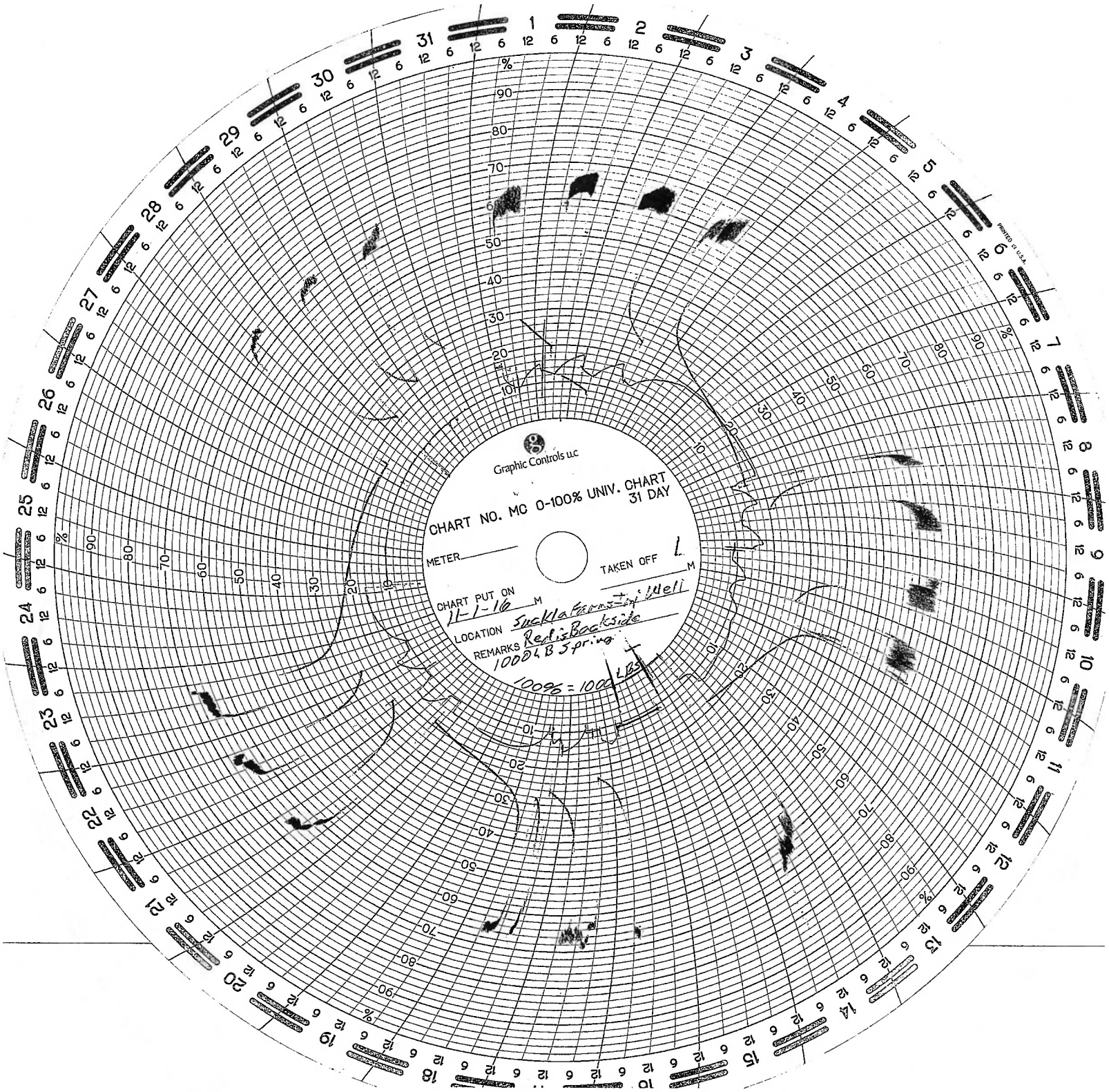

Injection Information - November 2016
Annulus Pressure (psi)
Tubing Pressure (psi)
Avg. Air Temperature (of)
Pump 1 (psi)
Pump 2 (psi)
Pressure, psig
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
10/27/2016
11/1/2016
11/6/2016
11/11/2016
11/16/2016
11/21/2016
11/26/2016
12/1/2016
12/6/2016

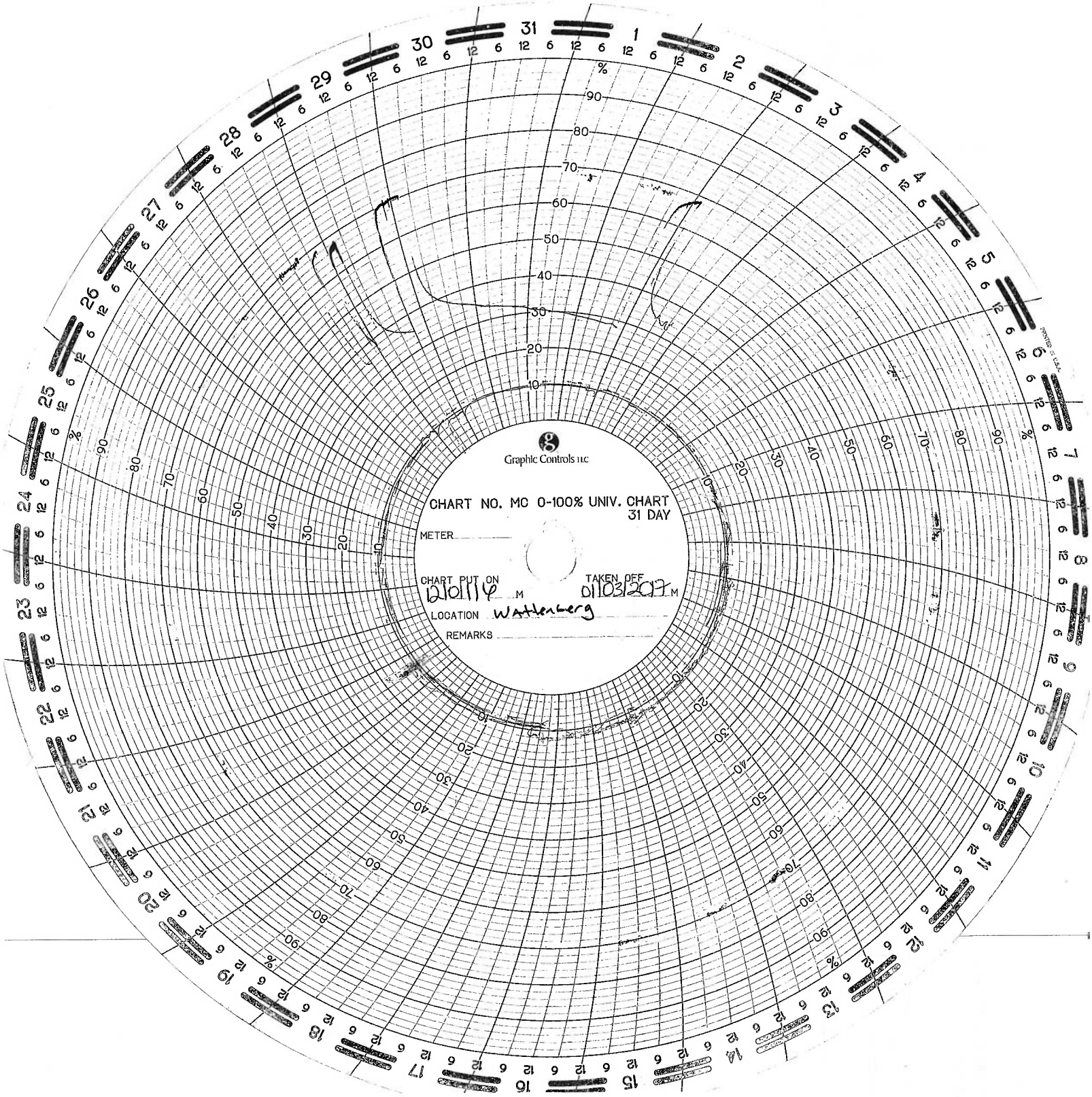
Wattenberg Disposal, LLC. Suckla Farms Injection Well #1 December 2016 Injection Report

Date	Injecting Fluid?	Pressured Annulus?	Injection Rate (bbl/day)	Tubing Pressure (psi)	Annulus Pressure (psi)	Initial Volume Meter (bbl)	Final Volume Meter (bbl)	Volume Injected (bbl)	Hauled DCP (bbl)	Hauled KPK (bbl)	Avg. Air Temperature (°f)	Pump 1 (psi)	Pump 2 (psi)
12/1/2016	Yes	Yes	510.00	690.00	110.00	714334	714844	510	0	540	27	350	700
12/2/2016	Yes	Yes	623.00	690.00	110.00	714844	715467	623	0	675	24	350	700
12/3/2016	No	No	0.00	0.00	110.00	715467	715467	0	0	0	26	0	0
12/4/2016	No	No	0.00	0.00	110.00	715467	715467	0	0	0	34	0	0
12/5/2016	Yes	Yes	662.00	690.00	110.00	715467	716129	662	0	745	38	325	650
12/6/2016	Yes	Yes	423.00	700.00	110.00	716129	716552	423	0	560	22	300	600
12/7/2016	Yes	Yes	355.00	700.00	110.00	716552	716907	355	0	180	6	320	624
12/8/2016	Yes	Yes	43.00	700.00	110.00	716907	716950	43	0	560	4	320	620
12/9/2016	Yes	Yes	423.00	690.00	110.00	716950	717373	423	0	620	16	350	680
12/10/2016	No	No	0.00	0.00	110.00	717373	717373	0	0	0	34	0	0
12/11/2016	No	No	0.00	0.00	110.00	717373	717373	0	0	0	32	0	0
12/12/2016	Yes	Yes	621.00	680.00	110.00	717373	717994	621	0	440	32	350	700
12/13/2016	Yes	Yes	313.00	695.00	110.00	717994	718307	313	0	420	36	325	650
12/14/2016	Yes	Yes	397.00	690.00	110.00	718307	718704	397	0	480	20	325	650
12/15/2016	Yes	Yes	568.00	690.00	110.00	718704	719272	568	0	335	40	325	650
12/16/2016	Yes	Yes	49.00	690.00	110.00	719272	719321	49	0	540	31	325	650
12/17/2016	No	Yes	0.00	0.00	110.00	719321	719321	0	0	0	-6	0	0
12/18/2016	No	Yes	0.00	0.00	110.00	719321	719321	0	0	0	0	0	0
12/19/2016	Yes	Yes	101.00	690.00	110.00	719321	719422	101	0	350	20	325	650
12/20/2016	Yes	Yes	595.00	690.00	110.00	719422	720017	595	0	580	44	325	650
12/21/2016	Yes	Yes	609.00	690.00	110.00	720017	720626	609	0	1020	42	320	640
12/22/2016	Yes	Yes	599.00	690.00	110.00	720626	721225	599	0	360	32	320	640
12/23/2016	Yes	Yes	642.00	680.00	110.00	721225	721867	642	0	910	38	320	640
12/24/2016	No	Yes	0.00	0.00	110.00	721867	721867	0	0	0	36	0	0
12/25/2016	No	Yes	0.00	0.00	110.00	721867	721867	0	0	0	30	0	0
12/26/2016	Yes	Yes	0.00	695.00	110.00	721867	721867	0	0	0	27	0	0
12/27/2016	Yes	Yes	700.00	700.00	110.00	721867	722567	700	0	530	32	0	0
12/28/2016	Yes	Yes	709.00	700.00	110.00	722567	723276	709	0	645	40	350	700
12/29/2016	Yes	Yes	570.00	700.00	110.00	723276	723846	570	0	845	30	350	700
12/30/2016	Yes	Yes	775.00	0.00	110.00	723846	724621	775	0	1060	46	350	700
12/31/2016	Yes	Yes	0.00	0.00	110.00	724621	724621	0	0	0	28	0	0
Average			331.84	469.03	110.00								
Minimum			0.00	0.00	110.00								
Maximum			775.00	700.00	110.00								
TOTAL								10287	0	12395			


Injection Information - December2016
Annulus Pressure (psi)
Tubing Pressure (psi)
Avg. Air Temperature (of)
Pump 1 (psi)
Pump 2 (psi)
Pressure, psig
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
-100.00
11/26/2016
12/1/2016
12/6/2016
12/11/2016
12/16/2016
12/21/2016
12/26/2016
12/31/2016
1/5/2017


Graphic Controls LLC
CHART NO. MC 0-100% UNIV. CHART
31 DAY
METER
CHART PUT ON 10-3-16 M
TAKEN OFF 11-1-16 M
LOCATION Luckett Farm Inj. Well
REMARKS Red is Backside
1000 LB Spring - 100% = 1000 LB


Graphic Controls LLC
CHART NO. MC 0-100% UNIV. CHART
31 DAY
METER
TAKEN OFF
CHART PUT ON
11-1-16
LOCATION
REMARKS
100% = 1000 LBS


Graphic Controls LLC
CHART NO. MC 0-100% UNIV. CHART
31 DAY
METER
CHART PUT ON
12/01/14 M
TAKEN OFF
01/03/2017 M
LOCATION Wattenberg
REMARKS

Suckla Farms #1 Well 4th Qtr. Waste Fluid Analysis Data - 2016
Baseline Comparison

K.P. Kauffman Company, Inc.

	General Chemistry									Dissolved Metals			
Date	Chloride (mg/l)	HEM Oil & Grease (mg/l)	Nitrogen, Nitrate (mg/l)	Nitrogen, Nitrite (mg/l)	TDS (mg/l)	SG	Sulfate (mg/l)	Total Organic Carbon (mg/l)	pH	Calcium (ug/l)	Magnesium (ug/l)	Potassium (ug/l)	Sodium (ug/l)
10/27/2016	8520	25.2	<2.0	<2.0	20230	1.015	3.0	202.0	6.3	223000	35400	96400	5137000
11/15/2016	10560	263	<2.0	<2.0	21400	1.014	2.0	298.0	6.5	348000	49200	105000	7219000
12/28/2016	8640	247	<2.0	<2.0	20320	1.013	<2.0	156.0	7.3	245000	33700	117000	5459000

Baseline data based on three (3) years of monitoring events (2014-2012)

	TDS (mg/l)	pH	SG
Average:	16778.571	7.374	1.011

Baseline Data Comparison

Date	pH	TDS	TDS Difference	SG	SG Difference
	<2 and/or <12.5	20% > Baseline	TDS/Baseline	10% > Baseline	SG/Baseline
10/27/2016	No	Yes	20.6%	No	0.4%
11/15/2016	No	Yes	27.5%	No	0.3%
12/28/2016	No	Yes	21.1%	No	0.2%

Test Report

eANALYTICS

LABORATORY

November 2, 2016

Client:	K.P. Kauffman Company
Project:	Wattenberg Tank
Lab ID:	6024
Date Samples Received:	10/27/2016
Number of Samples:	1
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Samples arrived within the acceptable temperature range as specified in the test method
Comments:	

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eANALYTICS
LABORATORY

CHAIN OF CUSTODY

APEX CONSULTING SERVICES, INC.
BOX 369, LOUISVILLE, CO 80027-0369
303-665-1400

FED-EX Tracking #:
Accutest Quote #:
Bottle Order Control #:
Accutest Job #: 6024

Client / Reporting Information

Company Name: K.P. Kauffman Company, Inc.
Address: 1675 Broadway, Suite 2800
City: Denver State: CO Zip: 80202-4628
Project Contact: Susana Lara-Mesa SLaraMesa@kpk.com
Phone #: 303-825-4822
Sampler's Name: MICHAEL HATTEL (303-665-1400)

Project Information

Project Name: WATTENBERG TANK
Street:
City: Fort Lupton State: CO
Project #:
Fax #:
Client Purchase Order #: 7591

Requested Analysis

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ZnAc/NaOH	OIL & GREASE 1664	ANIONS (NITRATE, NITRITE, SULFATE, CHLORIDE)	pH	CATIONS (Ca, K, Mg, NA)	SPECIFIC GRAVITY	TDS	TOC					Matrix Codes / LAB USE ONLY
1	TANK - I		10/27/14	0800	MDH	LIQ	2									X	X	X	X	X	X	X					

Matrix Codes: DW- Drinking Water; GW- Ground Water; WW- Water; SW- Surface Water; SO- Soil; SL-Sludge; OI-Oil; LIQ- Other Liquid; AIR- Air; SOL-Other Solid; WI-Wipe

Turnaround Time (Business days)

X Std.
Approved By/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] NJ Reduced
- [ ] NJ Full
- [x] Hard Copy
- [ ] FULL CLP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] PDF

Comments / Remarks

Full QA/QC Package Needed for Report

PDF copy to Susan Lara-Mesa at Slaramesa@kpk.com

PDF copy to Mike Hattel with APEX at mhattel@msn.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date:	Received By:	Date Time:
			10/27/14 1:30pm.
Relinquished by:	Date Time:	Received By:	Date Time:
Relinquished by:	Date Time:	Received By:	Custody Seal # / Preserved where applicable / On Ice / Cooler Temp.

Water
Sample Analysis

November 2, 2016

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6024
Project:	Wattenberg Tank		
Analysis:	Oil & Grease	Method:	EPA1664/9071B

Sample Name	Oil & Grease mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	25.2	10/27/16	11/01/16	6024	1

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed

eANALYTICS
LABORATORY

Client: K.P. Kauffman Company

Lab ID: 6024

Project: Wattenberg Tank

Analysis: Anions

Method: EPA300.0

Sample Name	Nitrate mg/L	Nitrite mg/L	Sulfate mg/L	Chloride mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	<2.0	<2.0	3	8520	10/27/16	10/27/16	6024	1

Water
Sample Analysis

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6024
Project:	Wattenberg Tank		
Analysis:	Specific Gravity	Method:	ASTMD1298
	Total Dissolved Solids		EPA160.1
	Total Organic Carbon		EPA415.1
	pH		EPA150.1

Sample Name	Specific Gravity mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	pH su	Date Sampled	Date Analyzed	Lab ID	
Tank-1	1.015	20230	202	6.3	10/27/16	10/27/16	6024	1

Water
Sample Analysis

November 2, 2016

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6024
Project:	Wattenberg Tank		
Analysis:	Total Metals	Method:	EPA6010

Sample Name	Ca-Calcium mg/L	K-Potassium mg/L	Mg-Magnesium mg/L	Na-Sodium mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	223	96.4	35.4	5137	10/27/16	10/31/16	6024	1

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6024
Project:	Wattenberg Tank		
Analysis:	Total Metals	Method:	EPA6010

Sample Name	Ca-Calcium % Rec	K-Potassium % Rec	Mg-Magnesium % Rec	Na-Sodium % Rec	Date Analyzed		Lab ID	
Laboratory Control Sample	94	98	101	99	10/31/16	LCS	6024	1
(90-110%)								
Method Blank	<4.0	<1.0	<2.0	<8.0	10/31/16	MB	6024	1
	mg/L	mg/L	mg/L	mg/L				

Test Report

eANALYTICS

LABORATORY

November 28, 2016

Client:	K.P. Kauffman Company
Project:	Wattenberg Tank
Lab ID:	6105
Date Samples Received:	11/15/2016
Number of Samples:	1
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Samples arrived within the acceptable temperature range as specified in the test method

Comments:

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eANALYTICS LABORATORY

CHAIN OF CUSTODY

6103

APEX CONSULTING SERVICES, INC.
BOX 369, LOUSIVILLE, CO 80027-0369
303-665-1400

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: K.P. Kauffman Company, Inc.
Address: 1675 Broadway, Suite 2800
City: Denver | State: CO | Zip: 80202-4628
Project Contact: Susana Lara-Mesa | SLaraMesa@kpk.com
Phone #: 303-825-4822
Samplers's Name: MICHAEL HATTEL (303-665-1400)

Project Information

Project Name: WATTENBERG TANK
Street:
City: Fort Lupton | State: CO
Project #:
Fax #:
Client Purchase Order #: 7591

Requested Analysis

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: DI	DI/H2O	H2SO4	HCL	NONE	NaHSO4	MEOH	ENCORE	OIL & GREASE 1664	ANIONS (NITRATE, NITRITE, SULFATE, CHLORIDE)	pH	CATIONS (Ca, K, Mg, NA)	SPECIFIC GRAVITY	TDS	TOC					LAB USE ONLY
	TANK - I		11/15/16	7:45	MDH	LIQ	2									X	X	X	X	X	X	X					

Matrix Codes

DW- Drinking Water
GW- Ground Water
WW- Water
SW- Surface Water
SO- Soil
SL-Sludge
OI-Oil
LIQ- Other Liquid
AIR- Air
SOL-Other Solid
WP-Wipe

Turnaround Time (Business days)

[X] Std.
Approved By/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] NJ Reduced
- [ ] NJ Full
- [x] Hard Copy
- [ ] FULL CLP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] PDF

Comments / Remarks

Full QA/QC Package Needed for Report

PDF copy to Susan Lara-Mesa at Slaramesa@kpk.com

PDF copy to Mike Hattel with APEX at mhattel@msn.com

Keep cooler

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date:	Received By:	Date Time:
[signature]	11/15/16	[signature]	11/15 1223
Relinquished by: [signature]	Date Time: 11/15/16 1327	Received By: [signature]	Date Time: 11/15/16 1223
Relinquished by:	Date Time:	Received By:	Custody Seal # / Preserved where applicable ☐ / On Ice ☐ / Cooler Temp.

Water
Sample Analysis

November 28, 2016

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6105
Project:	Wattenberg Tank		
Analysis:	Oil & Grease	Method:	EPA1664m/9071Bm

Sample Name	Oil & Grease mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	263	11/15/16	11/22/16	6105	1

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed

eANALYTICS
LABORATORY

Client: K.P. Kauffman Company

Lab ID: 6105

Project: Wattenberg Tank

Analysis: Anions

Method: EPA300.0

Sample Name	Nitrate mg/L	Nitrite mg/L	Sulfate mg/L	Chloride mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	<2.0	<2.0	2	10560	11/15/16	11/15/16	6105	1

Water
Sample Analysis

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6105
Project:	Wattenberg Tank		
Analysis:	Specific Gravity	Method:	ASTMD1298
	Total Dissolved Solids		EPA160.1
	Total Organic Carbon		EPA415.1
	pH		EPA150.1

Sample Name	Specific Gravity	Total Dissolved Solids	Total Organic Carbon	pH	Date Sampled	Date Analyzed	Lab ID	
	mg/L	mg/L	mg/L	su				
Tank-1	1.014	21400	298	6.5	11/15/16	11/17/16	6105	1

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed

Water
Sample Analysis

November 28, 2016

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6105
Project:	Wattenberg Tank		
Analysis:	Total Metals	Method:	EPA6010

Sample Name	Ca- Calcium mg/L	K- Potassium mg/L	Mg- Magnesium mg/L	Na-Sodium mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	348	105	49.2	7219	11/15/16	11/22/16	6105	1

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6105
Project:	Wattenberg Tank		
Analysis:	Total Metals	Method:	EPA6010

Sample Name	Ca-Calcium % Rec	K-Potassium % Rec	Mg-Magnesium % Rec	Na-Sodium % Rec	Date Analyzed		Lab ID	
Laboratory Control Sample	94	98	101	99	11/22/16	LCS	6105	1
(90-110%)								
Method Blank	<4.0	<1.0	<2.0	<8.0	11/22/16	MB	6105	1
	mg/L	mg/L	mg/L	mg/L				

Test Report

eANALYTICS

LABORATORY

January 9, 2017

Client:	K.P. Kauffman Company
Project:	Wattenberg Tank
Lab ID:	6290
Date Samples Received:	12/28/2016
Number of Samples:	1
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Samples arrived within the acceptable temperature range as specified in the test method
Comments:	

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Fo

eANALYTICS LABORATORY

4130 Clydesdale Parkway Loveland CO 80538 Phone: (970) 667-6975 Fax: (970) 669-0941 www.eAnalyticsLab.com

CLIENT INFORMATION
(*New Clients please fill out completely)

Company: K.P. Kaufman Company Inc
Project: ~~1675 Broadway Suite 2020~~ WATERBERG Tank
Send Report To: Susan Lara - Mesa
Send Invoice To: SAME
Phone/Email: 3-825-7822
Address:

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date	Number of Containers	Matrix (S) Soil (W) Water (A) Air (O) Other	BTEX / MTBE / TVPH (EPA8260)	BTEX / TVPH (EPA8260)	TEPH (EPA8015)	Volatiles - Full List (EPA8260)	Semi-Volatiles Full List (EPA8270)	[redacted]	Oil & Grease (EPA9071B/1664)	[redacted]	Total RCRA-8 Metals	TCLP RCRA-8 Metals	Vapor-Soil Vapor BTEX (EPA TO-15)	Vapor-Emissions BTEX / TVPH (TO-15)	TDS	TSS	Anions (Br, Nitrate, N-Nitrite, Sulfate, Chloride)	Cations (K, Ca, Mg, Na)	HPC-Aerobic Plate Count	HPC-Anaerobic Plate Count
	Tank - I	12/20/16 1100	2	W						X	X	X						X	X	X		

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
- (●) Normal (5-10 Days)
- ( ) 3 Day (25%)
- ( ) 2 Day (50%)
- ( ) 1 Day (100%)
- ( ) Same Day (300%)

Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use
Samples Received Intact: (Yes) / No
Received Within Temperature Range (2-6°C): (Yes) / No
Sample Preservative: (Ice) None Acid Other

Record of Custody
Relinquished by: [signature] Date 12/20/16
Company: AMX Time 1205
Received by: Date
Company: Time
Relinquished by: Date
Company: Time
Received by: [signature] Date 12/20/16
Company: eANALYTICS Time 12 00

Lab ID # 6290

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538
(970) 667-6975

Page 1 of 1

Water
Sample Analysis

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6290
Project:	Wattenberg Tank		
Analysis:	Oil & Grease	Method:	EPA1664m/9071Bm

Sample Name	Oil & Grease mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	247	12/28/16	12/28/16	6290	1

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed

Matrix
Sample Analysis

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6290
Project:	Wattenberg Tank		
Analysis:	Anions	Method:	EPA300.0

Sample Name	Nitrate mg/L	Nitrite mg/L	Sulfate mg/L	Chloride mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	<2.0	<2.0	<2.0	8640	12/28/16	12/29/16	6290	1

Water
Sample Analysis

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6290
Project:	Wattenberg Tank		
Analysis:	Specific Gravity	Method:	ASTMD1298
	Total Dissolved Solids		EPA160.1
	Total Organic Carbon		EPA415.1
	pH		EPA150.1

Sample Name	Specific Gravity mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	pH su	Date Sampled	Date Analyzed	Lab ID	
Tank-1	1.013	20320	156	7.3	12/28/16	12/29/16	6290	1

Water
Sample Analysis

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6290
Project:	Wattenberg Tank		
Analysis:	Total Metals	Method:	EPA6010

Sample Name	Ca-Calcium mg/L	K-Potassium mg/L	Mg-Magnesium mg/L	Na-Sodium mg/L	Date Sampled	Date Analyzed	Lab ID	
Tank-1	245	117	33.7	5459	12/28/16	01/06/16	6290	1

Water
Quality Control - Analyses

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6290
Project:	Wattenberg Tank		
Analysis:	Total Metals	Method:	EPA6010

Sample Name	Ca-Calcium % Rec	K-Potassium % Rec	Mg-Magnesium % Rec	Na-Sodium % Rec	Date Analyzed		Lab ID	
Laboratory Control Sample	95	90	93	92	01/06/16	LCS	6290	1
(90-110%)								
Method Blank	<4.0	<1.0	<2.0	<8.0	01/06/16	MB	6290	1
	mg/L	mg/L	mg/L	mg/L				

Date	Lease Name	Volume (bbl)
7/1/2016	FACILITY #7	130
7/1/2016	Zarlengo #1	130
7/1/2016	ROLLIE VINCENT J #3	40
7/1/2016	VAWTER #15-2; #16-2	70
7/1/2016	VAWTER #13-2; #14-2	70
7/1/2016	JACOBUCCI; JEAN #1; 2; 3; 4	70
7/1/2016	SAM FUNAKOSHI	40
7/1/2016	Dechant State #1; 2; 3; 4; 5; 6; 7	60
7/1/2016	CHARLES C BELL	20
7/1/2016	FIRECRACKER	45
7/1/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
7/1/2016	GRENEMEYER #1-A	80
7/1/2016	LANSON FARM	65
7/1/2016	BAURER/EIBERGER	50
7/1/2016	OWEN #12-1	80
7/1/2016	GENESIS #3 & #9-2	40
7/5/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
7/5/2016	ROLLIE VINCENT J #3	40
7/5/2016	FACILITY #1	130
7/5/2016	FACILITY #4	130
7/6/2016	Uprr #43 Pan Am I #33	80
7/6/2016	UPRR 43 I	70
7/6/2016	Carl A Miller B #14	160
7/6/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	240
7/6/2016	KOESTER #3-33-3	45
7/6/2016	SUCKLA FARMS E	120
7/6/2016	MCGILL #1	50
7/6/2016	UPRR 42 PAN AM K	40
7/6/2016	GENESIS #1	40
7/6/2016	SRC Pratt #29XD	160
7/7/2016	McConahay #33-34	65
7/7/2016	Brand #1	65
7/7/2016	JEFFERS-HART	30
7/7/2016	FACILITY #3	30
7/7/2016	CARL R DEEPE C	40
7/7/2016	LANSON FARM	100
7/7/2016	GREELEY NATIONAL BANK B	50
7/7/2016	CARL A MILLER SUB BATTERY	40
7/7/2016	FRANKLIN STERMOLE UNIT #1	50
7/7/2016	MUSICK-McCLINTOCK #3; 5	40
7/7/2016	ALFRED HERMAN	40
7/7/2016	Uprr #43 Pan Am I #33	80
7/8/2016	Uprr #43 Pan Am I #33	80
7/8/2016	Uprr #43 Pan Am I #33	80
7/8/2016	Uprr #43 Pan Am I #33	80

Date	Lease Name	Volume (bbl)
7/8/2016	CARL A MILLER SUB BATTERY	40
7/8/2016	ROLLIE VINCENT J #3	40
7/8/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	80
7/8/2016	SIERRA MITCHELL #32-8	100
7/8/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	35
7/8/2016	SUCKLA BROWN UNIT #17	30
7/8/2016	NRC #9-9-15H	40
7/8/2016	HORST-SCHUTT	50
7/8/2016	BAURER/EIBERGER	120
7/8/2016	FACILITY #8	120
7/8/2016	FACILITY #2	130
7/11/2016	FACILITY #7	85
7/11/2016	FACILITY #1	130
7/11/2016	FACILITY #4	260
7/11/2016	WENZEL-HOSMER #4-4	45
7/11/2016	Grant	15
7/11/2016	Lansons Farm #14	80
7/11/2016	FACILITY #S4WB	80
7/11/2016	MCCRUMB	40
7/11/2016	NORTH WASHINGTON #1-23	80
7/12/2016	LANSDOWN-LEGG	80
7/12/2016	FACILITY #2	130
7/12/2016	CARTER #21-33	130
7/12/2016	FACILITY #3	40
7/12/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
7/12/2016	ANDERSON SPRAGUE	75
7/12/2016	SUCKLA FARMS A;C;D	40
7/12/2016	ROLLIE VINCENT J #3	40
7/13/2016	ZARLENGO #14-4	60
7/13/2016	BEISEL ETAL #1	60
7/13/2016	HEIN	40
7/13/2016	SUCKLA FARMS A;C;D	40
7/13/2016	SHAW	40
7/13/2016	OCOMA	85
7/13/2016	Jillson #1; 2; 3; 4; 5; 6	30
7/13/2016	ANDERSON BATTERY	25
7/13/2016	LANSON FARM	75
7/13/2016	KUNZMAN	30
7/13/2016	BERNHARDT #1-11	50
7/13/2016	CAMENISCH BATTERY 2	50
7/14/2016	HILL #3-10; 4-10	30
7/14/2016	BAURER/EIBERGER	80
7/14/2016	FACILITY #5	120
7/14/2016	MILLARD	40
7/14/2016	CLEMENTINE B COBURN	40
7/14/2016	Sierra Mitchell #32-8	50

Date	Lease Name	Volume (bbl)
7/14/2016	FRONT RANGE #11-17-5 & 6	70
7/14/2016	STATE #2-26; 3-26	32
7/14/2016	RRR&S (ROSENFIELD) #6-5	47
7/14/2016	SIERRA MITCHELL #32-8	80
7/15/2016	SIERRA MITCHELL #32-8	60
7/15/2016	Neff #1; #2	80
7/15/2016	FIRECRACKER	70
7/15/2016	ROLLIE VINCENT J #3	40
7/15/2016	Teets Perrin #1; 2; 3; 4; 5	70
7/15/2016	CHRISTENSEN #4-9	70
7/15/2016	UPRR 42 PAN AM N #4	40
7/15/2016	FACILITY #2	130
7/15/2016	SUCKLA FARMS A;C;D	20
7/15/2016	DEVORE	45
7/15/2016	GREELEY NATIONAL BANK B	60
7/15/2016	GENESIS #3 & #9-2	45
7/18/2016	A.D. JEFFERS A #1	80
7/18/2016	FACILITY #7	130
7/18/2016	Grant	40
7/18/2016	LANSON FARM	80
7/18/2016	FACILITY #4	260
7/18/2016	FACILITY #5	40
7/19/2016	NEWLANDER #1	50
7/19/2016	STANDLEY #5-2; 6-2; 8-3	65
7/19/2016	NORTH YORK #11-12	50
7/19/2016	Lansons Farm #14	130
7/19/2016	Pace Connelly #1; 2; 5	100
7/19/2016	BAURER/EIBERGER	100
7/19/2016	WAGNER B	25
7/19/2016	SIDNEY STREAR	45
7/19/2016	PREMIUM TURKEY FARMS	35
7/19/2016	MUSICK-McCLINTOCK #3; 5	50
7/19/2016	RUEBEL #36-1	60
7/19/2016	RUEBEL #1-2	60
7/19/2016	STATE #14	20
7/20/2016	EWING-SHANNON	60
7/20/2016	JAMES A DAMIANA	40
7/20/2016	HAZEL MCHALE	130
7/20/2016	CHRISTENSEN #4-9	100
7/20/2016	Burkhardt-Seltzer #1	25
7/20/2016	ROLLIE VINCENT J #3	40
7/20/2016	ROLLIE J VINCENT A #1	45
7/20/2016	SIERRA MITCHELL #32-8	130
7/20/2016	Brand #1	60
7/21/2016	McCannon Unit #2	40
7/21/2016	OCOMA	60

Date	Lease Name	Volume (bbl)
7/21/2016	UPRR 43 I	65
7/21/2016	FACILITY #8	115
7/21/2016	SIDNEY STREAR	15
7/21/2016	FINDLAY SUB BATTERY	130
7/21/2016	AMOCO-CHARTER-SCHNEIDER	130
7/22/2016	NEWLANDER #1	50
7/22/2016	GRENEMEYER #1-A	80
7/22/2016	ROLLIE VINCENT J #3	25
7/22/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	130
7/22/2016	FACILITY #7	130
7/22/2016	FACILITY #4	130
7/22/2016	LANSON FARM	75
7/25/2016	SIERRA MITCHELL #32-8	130
7/25/2016	STATE #14	130
7/25/2016	FACILITY #5	130
7/25/2016	MARTIN T HART D	40
7/25/2016	FRANKLIN STERMOLE UNIT #1	30
7/25/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
7/25/2016	NORTH YORK #13-12; #14-12	60
7/25/2016	FACILITY #2	130
7/25/2016	Millard #43-30	70
7/25/2016	ANDERSON SPRAGUE	60
7/25/2016	McConahay #33-34	130
7/25/2016	LANSDOWN-LEGG	70
7/25/2016	UPRR 42 PAN AM K	60
7/26/2016	Donald E Miller B #3	50
7/26/2016	Fern Miller Wikstrand #2	50
7/26/2016	Uprr #43 Pan Am I #33	130
7/26/2016	Lansons Farm #14	130
7/26/2016	Parker #1; #2	95
7/26/2016	UPRR 42 PAN AM G	40
7/26/2016	LANSON FARM	60
7/26/2016	AMEN #1	29
7/26/2016	CHALLENGER #1-32	1
7/27/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	130
7/27/2016	BAURER/EIBERGER	100
7/27/2016	NEWLANDER #1	30
7/27/2016	VINCENT-EWING	50
7/27/2016	Fern Miller Wikstrand #2	130
7/27/2016	FACILITY #1	130
7/27/2016	SRC PRATT #13-29D	130
7/27/2016	FACILITY #S4WB	60
7/27/2016	Jillson A #1; 2; 3; 4	70
7/27/2016	Jillson #1; 2; 3; 4; 5; 6	30
7/27/2016	FACILITY #3	45
7/27/2016	KOESTER #3-33-29	45

Date	Lease Name	Volume (bbl)
7/28/2016	Green #1	50
7/28/2016	Donald E Miller B #1	130
7/28/2016	ROLLIE J VINCENT A #1	45
7/28/2016	MUSICK-McCLINTOCK #3; 5	45
7/28/2016	FACILITY #7	130
7/28/2016	FACILITY #2	130
7/28/2016	JACOBUCCI; JEAN #1; 2; 3; 4	80
7/28/2016	VAWTER #13-2; #14-2	120
7/28/2016	STATE #14	45
7/28/2016	SIERRA MITCHELL #32-8	85
7/29/2016	Uprr #43 Pan Am I #33	145
7/29/2016	NRC #9-9-15H	65
7/29/2016	UPRR 42 PAN AM N #4	35
7/29/2016	CARL A MILLER SUB BATTERY	50
7/29/2016	LANSON FARM	60
7/29/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	30
7/29/2016	DWIGHT G HANKS B	40
7/29/2016	GREELEY NATIONAL BANK B	60
8/1/2016	Cosslett #1; #2	50
8/1/2016	PACE-CONNELLY #3 & #8	50
8/1/2016	MCCRUMB	35
8/1/2016	Edkam #2-23	30
8/1/2016	Genesis #3	40
8/1/2016	CLEMENTINE B COBURN	40
8/1/2016	BAURER/EIBERGER	130
8/1/2016	UPRR 43 I	60
8/1/2016	FIRECRACKER	60
8/1/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	130
8/1/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	130
8/1/2016	NORTH QUEBEC #1; 12-8; 16-8	60
8/1/2016	NORTH QUEBEC #1; 12-8; 16-8	70
8/1/2016	Vawter Gas Unit #2	30
8/1/2016	Vawter #9-2	40
8/1/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	30
8/2/2016	SIDNEY STREAR	50
8/2/2016	BERNHARDT #7-14; 7-16	30
8/2/2016	Franklin Stermole Unit #1	40
8/2/2016	Rollie J Vincent J #3	40
8/2/2016	GEORGE H GERHARDT	40
8/2/2016	FACILITY #7	70
8/2/2016	Newlander #1	50
8/2/2016	FACILITY #8	80
8/2/2016	MARTIN T HART	40
8/2/2016	ELKHORN	50
8/2/2016	Donald E Miller B #1	80
8/3/2016	LANSON FARM	80

Date	Lease Name	Volume (bbl)
8/3/2016	Donald E Miller B #1	60
8/3/2016	FACILITY #8	60
8/3/2016	Zarlengo #1	100
8/4/2016	ANDERSON SPRAGUE	50
8/4/2016	Brand #1	50
8/4/2016	KUNZMAN	30
8/4/2016	CARL A MILLER SUB BATTERY	100
8/4/2016	Carter #21-33	120
8/4/2016	FACILITY #2	130
8/5/2016	HEIN-HALEY-MILLER	50
8/5/2016	UPRR 42 PAN AM G	30
8/5/2016	LANSON FARM	50
8/5/2016	MUSICK-McCLINTOCK #3; 5	40
8/5/2016	Rollie J Vincent J #3	30
8/5/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
8/5/2016	FACILITY #1	130
8/5/2016	FACILITY #4	210
8/5/2016	FACILITY #S4WA	80
8/5/2016	Becky #1; #5-6	100
8/8/2016	Donald E Miller B #1	195
8/8/2016	Donald E Miller B #1	195
8/8/2016	BAURER/EIBERGER	100
8/8/2016	Signal Reservoir #1	60
8/8/2016	Devore #3	10
8/8/2016	Zarlengo #14-4	50
8/8/2016	FACILITY #6	130
8/8/2016	DEVORE	50
8/8/2016	FACILITY #7	130
8/8/2016	SRC Pratt #29XD	100
8/8/2016	SRC Pratt #31-29D	130
8/9/2016	HORST-SCHUTT	40
8/9/2016	Wind #1	80
8/9/2016	Briggs #1	40
8/9/2016	Dechant State #1; 2; 3; 4; 5; 6; 7	1
8/9/2016	Hankins #1	70
8/10/2016	Rollie J Vincent J #3	50
8/10/2016	GUTHRIE	50
8/10/2016	Newlander #1	50
8/11/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
8/11/2016	Suckla Brown Unit #17	40
8/11/2016	UPRR 43 I	70
8/11/2016	FIRECRACKER	60
8/11/2016	MUSICK-McCLINTOCK #3; 5	30
8/11/2016	HILL #3-10; 4-10	30
8/11/2016	FRONT RANGE #11-17-5 & 6	70
8/11/2016	EWING-SHANNON	50

Date	Lease Name	Volume (bbl)
8/11/2016	FACILITY #4	130
8/11/2016	FINDLAY SUB BATTERY	130
8/11/2016	FACILITY #S4WB	65
8/11/2016	FACILITY #S4WA	100
8/11/2016	LANSON FARM	65
8/11/2016	Carter #21-33	130
8/11/2016	Lansons Farm #3	2
8/12/2016	Martin T Hart F Unit #1	50
8/12/2016	CARL R DEEPE C	30
8/12/2016	ROLLIE J VINCENT A #1	50
8/12/2016	UPRR 42 Pan Am N #4	30
8/12/2016	BAURER/EIBERGER	40
8/12/2016	FACILITY #2	130
8/12/2016	CARL A MILLER SUB BATTERY	60
8/12/2016	GRAY-HEPP	60
8/12/2016	FACILITY #8	130
8/12/2016	FACILITY #3	40
8/12/2016	FACILITY #1	130
8/12/2016	GRENEMEYER #1-A	80
8/12/2016	FACILITY #7	130
8/15/2016	Jillson #1; 2; 3; 4; 5; 6	30
8/15/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
8/15/2016	Millard #43-30	90
8/15/2016	KOESTER #3-33-3	40
8/15/2016	Koester #18-33	35
8/15/2016	NOEL #3-18	60
8/15/2016	ANDERSON BATTERY	45
8/15/2016	Neff #1; #2	80
8/16/2016	FACILITY #4	10
8/16/2016	KNUDSEN	130
8/16/2016	DEVORE	35
8/16/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	160
8/16/2016	VAWTER #13-2; #14-2	70
8/16/2016	OCOMA	70
8/16/2016	Haugen #1-30	40
8/16/2016	UPRR 42 PAN AM D	60
8/17/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	130
8/17/2016	LANSON FARM	130
8/17/2016	CAMENISCH BATTERY 1	60
8/17/2016	NRC #9-9-15H	60
8/17/2016	CARL A MILLER SUB BATTERY	60
8/17/2016	Tippett #6-2	30
8/17/2016	R HORTH #1-2	30
8/17/2016	Douthit #2; 31-29	30
8/17/2016	UPRR 42 PAN AM K	30
8/17/2016	MCCRUMB	30

Date	Lease Name	Volume (bbl)
8/17/2016	GENESIS #3 & #9-2	45
8/17/2016	MUSICK-McCLINTOCK #3; 5	40
8/17/2016	Donald E Miller B #1	130
8/17/2016	Donald E Miller B #1	130
8/17/2016	Donald E Miller B #1	130
8/18/2016	LANSON FARM	65
8/18/2016	FACILITY #8	130
8/18/2016	BAURER/EIBERGER	60
8/18/2016	Anderson #13-22	60
8/18/2016	FACILITY #5	130
8/18/2016	Carter #21-33	70
8/18/2016	FACILITY #7	100
8/18/2016	WAGNER B	30
8/18/2016	FACILITY #2	100
8/18/2016	Newlander #1	60
8/18/2016	STANDLEY #5-2; 6-2; 8-3	65
8/18/2016	UPRR 23 PAN AM D #4	50
8/19/2016	Dacono #1; #2; #3	80
8/19/2016	Brand #1	50
8/19/2016	McConahay #33-34	90
8/19/2016	Pace Connelly #1; 2; 5	60
8/19/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	35
8/19/2016	FACILITY #5	50
8/19/2016	DWIGHT G HANKS B	35
8/19/2016	MEREDITH	45
8/22/2016	CARL A MILLER SUB BATTERY	60
8/22/2016	BAURER/EIBERGER	90
8/22/2016	NORTH WASHINGTON #8-23	120
8/22/2016	SRC Pratt #29XD	110
8/22/2016	ANDERSON SPRAGUE	70
8/22/2016	CLEMENTINE B COBURN	40
8/22/2016	WILLIAM D LANSDOWN	40
8/22/2016	UPRR 43 I	70
8/23/2016	KNUDSEN	130
8/23/2016	FACILITY #1	130
8/23/2016	Dacono #1; #2; #3	75
8/23/2016	UPRR 42 PAN AM K	35
8/23/2016	FRISBIE	70
8/23/2016	GITTLEIN #2-4; 7-4; 8-4; 17-4	55
8/24/2016	Franklin Stermole Unit #1	50
8/24/2016	HAUDRICH	40
8/24/2016	FINDLAY SUB BATTERY	80
8/24/2016	FACILITY #8	130
8/24/2016	FACILITY #7	130
8/24/2016	Sierra Mitchell #32-8	45
8/24/2016	STATE #14	85

Date	Lease Name	Volume (bbl)
8/25/2016	SUCKLA FARMS A;C;D	35
8/25/2016	Grant	50
8/25/2016	SIDNEY STREAR	40
8/25/2016	HORST-SCHUTT	30
8/25/2016	FIRECRACKER	70
8/25/2016	LANSDOWN-LEGG	40
8/25/2016	MILLARD	50
8/25/2016	Jillson A #1; 2; 3; 4	40
8/25/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	100
8/25/2016	FACILITY #S4WB	70
8/25/2016	FACILITY #S4WA	130
8/25/2016	FACILITY #4	130
8/25/2016	Woolley #1; #2	25
8/26/2016	FACILITY #3	40
8/26/2016	Jillson #1; 2; 3; 4; 5; 6	30
8/26/2016	AMOCO-CHARTER-SCHNEIDER	130
8/26/2016	Grenemeyer #1-A	50
8/26/2016	Donald E Miller B #1	130
8/26/2016	Newlander #1	50
8/29/2016	Koester #3-33-3	40
8/29/2016	Christensen #4-9	70
8/29/2016	Zarlengo #14-4	50
8/29/2016	JACOBUCCI; JEAN #1; 2; 3; 4	80
8/29/2016	LANSON FARM	60
8/29/2016	WILLIAM D LANSDOWN	150
8/29/2016	SRC Pratt #24-29D	100
8/29/2016	SRC Pratt #29XD	150
8/29/2016	FACILITY #4	130
8/29/2016	FACILITY #4	130
8/30/2016	OWEN #12-1	70
8/30/2016	BERNHARDT #1-11	40
8/30/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	130
8/30/2016	FACILITY #2	130
8/30/2016	NRC #9-9-15H	80
8/30/2016	UPRR 42 PAN AM N #4	40
8/30/2016	BAURER/EIBERGER	100
8/30/2016	WELD COUNTY B-C	120
8/31/2016	HEIN	30
8/31/2016	DEVORE	40
8/31/2016	Walsh #2; 3; 4; 5	75
8/31/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	190
8/31/2016	MUSICK-McCLINTOCK #3; 5	60
8/31/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	30
8/31/2016	FACILITY #1	100
8/31/2016	FACILITY #4	130
8/31/2016	Parker #1; #2	110

Date	Lease Name	Volume (bbl)
9/8/2016	Millard #43-30	90
9/8/2016	WILLIAM D LANSDOWN	55
9/8/2016	AMOCO ENERGY SMITS	45
9/8/2016	AMOCO-CHARTER-SCHNEIDER	20
9/8/2016	CLEMENTINE B COBURN	50
9/8/2016	MUSICK-McCLINTOCK #3; 5	40
9/8/2016	STRONG #1-7	40
9/9/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	120
9/9/2016	MARIE GERHARDT B	50
9/9/2016	CARL A MILLER SUB BATTERY	60
9/9/2016	SHELDON SICKLER	130
9/9/2016	FACILITY #8	125
9/9/2016	FACILITY #1	5
9/9/2016	SHAW	80
9/9/2016	MCCRUMB	30
9/9/2016	BAURER/EIBERGER	90
9/9/2016	MOSER #1-A	30
9/9/2016	UPRR 42 PAN AM G	40
9/9/2016	VAWTER #13-2; #14-2	50
9/9/2016	EWING-SHANNON	60
9/12/2016	FACILITY #3	40
9/12/2016	FACILITY #2	80
9/12/2016	EWING-SHANNON	50
9/12/2016	MCCRUMB	50
9/12/2016	FACILITY #4	130
9/12/2016	FACILITY #S4WB	85
9/12/2016	FACILITY #1	130
9/13/2016	ROLLIE J VINCENT A #1	40
9/13/2016	MURPHY #5-2	30
9/13/2016	SIERRA MITCHELL #32-8	30
9/13/2016	CHRISTENSEN #4-9	130
9/13/2016	UPRR 43 I	70
9/13/2016	FRONT RANGE #11-17-10	80
9/13/2016	State #18	100
9/13/2016	State #18	70
9/13/2016	Jillson A #1; 2; 3; 4	40
9/13/2016	JACK BERGER A	50
9/13/2016	SRC Pratt #29PD	120
9/14/2016	WAGNER #1	25
9/14/2016	UPRR 42 PAN AM N #4	40
9/14/2016	FACILITY #3	50
9/14/2016	FACILITY #1	5
9/14/2016	R HORTH #1-2	90
9/14/2016	UPRR 23 PAN AM D #2	40
9/14/2016	STANDLEY #5-2; 6-2; 8-3	70
9/14/2016	NRC #9-9-15H	60

Date	Lease Name	Volume (bbl)
9/1/2016	Sterkel #1	60
9/1/2016	CARL A MILLER SUB BATTERY	40
9/1/2016	Suckla Brown Unit #17	35
9/1/2016	Grant	45
9/1/2016	UPRR 43 I	50
9/1/2016	Tippett #6-4	55
9/1/2016	Tippett #6-2	25
9/1/2016	MCCRUMB	30
9/1/2016	KUNZMAN	30
9/1/2016	GENESIS #3 & #9-2	40
9/2/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	100
9/2/2016	Lansons Farm #14	130
9/2/2016	FACILITY #8	130
9/2/2016	SUCKLA FARMS A;C;D	40
9/2/2016	HILL #3-10; 4-10	30
9/2/2016	MATSUSHIMA #1-5; 2-6X	75
9/2/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
9/2/2016	LAURIDSON #31-24; 42-24	40
9/2/2016	LANSDOWN-LEGG	65
9/2/2016	ELKHORN	35
9/2/2016	Dacono #1; #2; #3	120
9/2/2016	FACILITY #S4WA	75
9/2/2016	Becky #1; #5-6	55
9/6/2016	FACILITY #7	150
9/6/2016	ROLLIE VINCENT J #3	50
9/6/2016	Fern Miller Wikstrand #2	60
9/6/2016	CARTER #21-33	130
9/6/2016	ROY DUTCHER	80
9/6/2016	Donald E Miller B #1	260
9/6/2016	GRENEMEYER #1-A	50
9/7/2016	VINCENT-EWING	30
9/7/2016	NEWLANDER #1	50
9/7/2016	Weld County Unit B #2	70
9/7/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
9/7/2016	FACILITY #5	130
9/7/2016	ANDERSON SPRAGUE	60
9/7/2016	ROY DUTCHER	15
9/7/2016	SIDNEY STREAR	40
9/8/2016	LAURIDSON #31-24; 42-24	50
9/8/2016	FACILITY #4	70
9/8/2016	LANSON FARM	60
9/8/2016	FIRECRACKER	70
9/8/2016	Dacono #1; #2; #3	60
9/8/2016	FACILITY #7	130
9/8/2016	FACILITY #4	130
9/8/2016	FACILITY #2	130

Date	Lease Name	Volume (bbl)
9/14/2016	DWIGHT G HANKS B	40
9/14/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	60
9/14/2016	LAURIDSON #31-24; 42-24	65
9/15/2016	FRANKLIN STERMOLE UNIT #1	40
9/15/2016	MUSICK-McCLINTOCK #3; 5	40
9/15/2016	GENESIS #3 & #9-2	40
9/15/2016	RUMSEY-MONFORT #1-4; 2-4	25
9/15/2016	LOEFFLER #2-24	30
9/15/2016	LOEFFLER #1-18	45
9/15/2016	UPRR 42 PAN AM K	42
9/15/2016	MCCRUMB	40
9/16/2016	ANDERSON BATTERY	40
9/16/2016	Jillson #1; 2; 3; 4; 5; 6	30
9/16/2016	PACE-CONNELLY #3 & #8	40
9/16/2016	LANSON FARM	40
9/16/2016	FIRECRACKER	50
9/16/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	100
9/16/2016	Newlander #1	40
9/16/2016	GUTHRIE	45
9/16/2016	FACILITY #7	130
9/16/2016	CARL A MILLER SUB BATTERY	40
9/16/2016	SUCKLA FARMS A;C;D	40
9/19/2016	Wenzel-Hosmer #4-4	10
9/19/2016	Neff #1; #2	120
9/19/2016	LANSDOWN-LEGG	70
9/19/2016	Martin T Hart F Unit #1	30
9/19/2016	ROCKY MTN FUEL 15-9; 33-9; C-8	40
9/19/2016	Brand #1	70
9/19/2016	HEIN	20
9/19/2016	State #32-26	45
9/19/2016	STATE #1-26	30
9/19/2016	SIDNEY STREAR	40
9/20/2016	HICKS #13-18	65
9/20/2016	GITTLEIN #2-4; 7-4; 8-4; 17-4	70
9/20/2016	FACILITY #2	100
9/20/2016	FACILITY #8	130
9/20/2016	BAURER/EIBERGER	85
9/20/2016	Pace Connelly #1; 2; 5	35
9/20/2016	Grant	50
9/20/2016	DEVORE	40
9/20/2016	MCCRUMB	40
9/20/2016	MILLARD	30
9/20/2016	ANDERSON SPRAGUE	50
9/20/2016	CHARLES C BELL	60
9/21/2016	HORST-SCHUTT	50
9/21/2016	FACILITY #2	110

Date	Lease Name	Volume (bbl)
9/21/2016	McConahay #33-34	85
9/21/2016	WILLIAM D LANSDOWN	45
9/21/2016	Edkam #3-28	30
9/21/2016	Edkam #2-23	30
9/21/2016	WALTER HUNZIKER	50
9/22/2016	Jillson #1; 2; 3; 4; 5; 6	30
9/22/2016	GREELEY NATIONAL BANK B	50
9/22/2016	KUNZMAN	30
9/22/2016	VINCENT-EWING	40
9/22/2016	AMOCO ENERGY SMITS	40
9/22/2016	JOHNSON	30
9/22/2016	LANSON FARM	70
9/22/2016	FACILITY #4	130
9/22/2016	CHARLES C BELL	20
9/22/2016	Edstrom #1	65
9/22/2016	NORTH QUEBEC #1; 12-8; 16-8	45
9/22/2016	JACOBUCCI; JEAN #1; 2; 3; 4	84
9/22/2016	Zarlengo #14-4	46
9/23/2016	HEIN-HALEY-MILLER	35
9/23/2016	CARL A MILLER SUB BATTERY	60
9/23/2016	FACILITY #1	130
9/23/2016	BAURER/EIBERGER	50
9/23/2016	MUSICK-McCLINTOCK #3; 5	40
9/23/2016	Monfort #2-30	40
9/23/2016	Monfort #1-29	40
9/23/2016	North Washington #2-23	90
9/23/2016	Newlander #1	25
9/23/2016	FACILITY #7	125
9/23/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	30
9/23/2016	Grenemeyer #1-A	60
9/23/2016	CARL R DEEPE C	40
9/25/2016	WAGNER B	1
9/26/2016	Wright #2-14	40
9/26/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	120
9/26/2016	UPRR 43 I	70
9/26/2016	FACILITY #4	130
9/26/2016	FINDLAY SUB BATTERY	130
9/26/2016	Vawter #13-2	100
9/26/2016	Pace Connelly #1; 2; 5	40
9/27/2016	Jillson #1; 2; 3; 4; 5; 6	50
9/27/2016	FACILITY #1	75
9/27/2016	STROH BATTERY 2	25
9/27/2016	AMOCO-CHARTER-SCHNEIDER	45
9/27/2016	LANSDOWN-LEGG	80
9/27/2016	CLEMENTINE B COBURN	35
9/27/2016	EWING-SHANNON	40

Date	Lease Name	Volume (bbl)
9/27/2016	WILLIAM D LANSDOWN	40
9/27/2016	Walsh #2; 3; 4; 5	60
9/28/2016	Uprr 43 Pan Am G #2	1
9/28/2016	FACILITY #4	130
9/28/2016	FACILITY #8	120
9/28/2016	NRC #9-9-15H	70
9/28/2016	BAURER/EIBERGER	80
9/28/2016	Suckla Brown Unit #17	40
9/28/2016	J P Rock #7-30	80
9/28/2016	Koester #3-33-3	25
9/29/2016	UPRR 42 PAN AM N #4	30
9/29/2016	LAURIDSON #31-24; 42-24	70
9/29/2016	FACILITY #S4WB	55
9/29/2016	GENESIS #3 & #9-2	45
9/29/2016	FACILITY #5	260
9/29/2016	ALFRED HERMAN	30
9/29/2016	MCCRUMB	30
9/29/2016	Loehr; Larry R #1	190
9/29/2016	LANSON FARM	60
9/30/2016	CARL A MILLER SUB BATTERY	50
9/30/2016	FIRECRACKER	60
9/30/2016	RRR&S (ROSENFIELD) #6-1; 6-2	30
9/30/2016	STATE #14	100
9/30/2016	CHARLES C BELL	65
9/30/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
9/30/2016	SIDNEY STREAR	45
9/30/2016	ELKHORN	40
9/30/2016	PACE-CONNELLY #3 & #8	25

Date	Name	Volume (bbl)
10/3/2016	LANSDOWN-LEGG	15
10/3/2016	VAWTER #15-2; #16-2	100
10/3/2016	NEWLANDER #1	40
10/3/2016	NORTH WASHINGTON #2-23	130
10/3/2016	MUSICK-McCLINTOCK #3; 5	45
10/3/2016	ANDERSON SPRAGUE	65
10/4/2016	Fern Miller Wikstrand #2	40
10/4/2016	HILL #3-10; 4-10	30
10/4/2016	Pace Connelly #1; 2; 5	30
10/4/2016	Glenn #41-10	110
10/4/2016	FACILITY #4	130
10/4/2016	FACILITY #7	130
10/4/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	100
10/5/2016	MOSER #1-A	50
10/5/2016	UPRR 43 I	80
10/5/2016	MCCRUMB	40
10/5/2016	Brand #1	45
10/5/2016	UPRR 42 PAN AM K	70
10/5/2016	Becky #1; #5-6	55
10/5/2016	FACILITY #3	45
10/5/2016	FACILITY #8	130
10/5/2016	FACILITY #1	130
10/5/2016	FACILITY #6	5
10/6/2016	FACILITY #4	130
10/6/2016	Carter #21-33	130
10/6/2016	FACILITY #2	130
10/6/2016	Franklin Stermole Unit #1	50
10/6/2016	Bernhardt #1-11	30
10/6/2016	KAMMERZELL #1-9; 7-4	40
10/6/2016	GUILDNER	50
10/6/2016	Dacono #1; #2; #3	45
10/6/2016	FACILITY #1	20
10/6/2016	Glenn #41-10	90
10/7/2016	Millard #43-30	100
10/7/2016	Grenemeyer #1-A	45
10/7/2016	Zarlengo #14-4	40
10/7/2016	Goetz 3-23; Greenlaugh N. 1-23	90
10/7/2016	VAWTER #13-2; #14-2	80
10/7/2016	CLEMENTINE B COBURN	40
10/10/2016	FRONT RANGE #11-17-5 & 6	70
10/10/2016	FACILITY #4	130
10/10/2016	CARL A MILLER SUB BATTERY	90
10/10/2016	LANSON FARM	90
10/10/2016	LANSDOWN-LEGG	80
10/10/2016	WILLIAM D LANSDOWN	40
10/10/2016	EWING-SHANNON	30

Date	Name	Volume (bbl)
10/10/2016	VINCENT-EWING	50
10/10/2016	Owen #12-1	60
10/11/2016	Jillson #1; 2; 3; 4; 5; 6	35
10/11/2016	UPRR 42 PAN AM K	30
10/11/2016	MARTIN T HART D	25
10/11/2016	KUNZMAN	30
10/11/2016	MCCRUMB	45
10/11/2016	North Washington #8-23	80
10/11/2016	NRC #9-9-15H	80
10/11/2016	STANDLEY #5-2; 6-2; 8-3	65
10/11/2016	Newlander #1	40
10/11/2016	Boxelder #27-2	65
10/11/2016	Boxelder #27-1	65
10/12/2016	MARTIN T HART	40
10/12/2016	ANDERSON SPRAGUE	50
10/12/2016	MILLARD	30
10/12/2016	BAURER/EIBERGER	110
10/12/2016	FACILITY #7	130
10/12/2016	Carter #21-33	130
10/12/2016	STATE #2-26; 3-26	30
10/12/2016	Sierra Mitchell #32-8	100
10/12/2016	Parker #1; #2	100
10/13/2016	GENESIS #3 & #9-2	50
10/13/2016	ALFRED HERMAN	60
10/13/2016	GUTHRIE	70
10/13/2016	Cosslett #1; #2	70
10/13/2016	UPRR 23 PAN AM M #1-2	30
10/13/2016	Tippett #6-2	50
10/13/2016	Tippett #6-4	20
10/13/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
10/13/2016	VAWTER #15-2; #16-2	70
10/13/2016	Glenn #41-10	130
10/13/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	120
10/13/2016	Christensen #4-9	85
10/14/2016	SIDNEY STREAR	70
10/14/2016	Pace Connelly #1; 2; 5	30
10/14/2016	DWIGHT G HANKS B	40
10/14/2016	SRC PRATT #29XD	100
10/14/2016	VAWTER #13-2; #14-2	45
10/14/2016	UPRR 42 PAN AM N #4	35
10/17/2016	FACILITY #4	130
10/17/2016	UPRR 43 I	70
10/17/2016	FACILITY #8	130
10/17/2016	Jillson A #1; 2; 3; 4	70
10/17/2016	GUTHRIE	40
10/17/2016	Walsh #2; 3; 4; 5	40

Date	Name	Volume (bbl)
10/18/2016	GUILDNER	40
10/18/2016	ROLLIE J VINCENT A #1	50
10/18/2016	Pace Connelly #1; 2; 5	30
10/18/2016	CARTER #21-33	40
10/18/2016	Dacono #1; #2; #3	45
10/18/2016	FACILITY #S4WA	130
10/18/2016	FACILITY #1	130
10/18/2016	FACILITY #5	130
10/18/2016	GRENEMEYER #1-A	40
10/18/2016	FACILITY #7	100
10/19/2016	CARL A MILLER SUB BATTERY	70
10/19/2016	NEWLANDER #1	40
10/19/2016	GUTHRIE	40
10/19/2016	BAURER/EIBERGER	80
10/20/2016	FACILITY #2	130
10/20/2016	HEIN	40
10/20/2016	ALFRED HERMAN	35
10/20/2016	MCCRUMB	35
10/20/2016	CLEMENTINE B COBURN	50
10/20/2016	RUEBEL #1-2	40
10/20/2016	RUEBEL #36-1	30
10/20/2016	WENZEL-HOSMER #4-4	40
10/20/2016	WENZEL-HOSMER #4-4	20
10/20/2016	LANSDOWN-LEGG	65
10/21/2016	ELKHORN	40
10/21/2016	ELKHORN	50
10/21/2016	Moser #1-A	35
10/21/2016	GUTHRIE	25
10/21/2016	NRC #9-9-15H	50
10/21/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	80
10/21/2016	Zarlengo #14-4	50
10/21/2016	VAWTER #13-2; #14-2	65
10/21/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
10/21/2016	UPRR 42 PAN AM G	50
10/21/2016	Franklin Stermole Unit #1	40
10/21/2016	Pace Connelly #1; 2; 5	30
10/21/2016	Neff #1; #2	65
10/24/2016	R HORTH #1-2	40
10/24/2016	STATE #14	90
10/24/2016	Grant	50
10/24/2016	UPRR 43 I	70
10/24/2016	JACK BERGER A	40
10/24/2016	SUCKLA FARMS A;C;D	50
10/25/2016	BAURER/EIBERGER	80
10/25/2016	GUTHRIE	40
10/25/2016	SUNMARKE BATTERY	50

Date	Name	Volume (bbl)
10/25/2016	Koester #3-33-3	40
10/25/2016	Noel #3-18	40
10/25/2016	MUSICK-McCLINTOCK #3; 5	70
10/25/2016	Edkam #1-21	40
10/26/2016	DEVORE	35
10/26/2016	Newlander #1	40
10/26/2016	William D Lansdown C #1	40
10/26/2016	BURKHARDT	70
10/26/2016	Jillson #1; 2; 3; 4; 5; 6	30
10/26/2016	FACILITY #1	130
10/27/2016	FIRECRACKER	70
10/27/2016	HAUDRICH	80
10/27/2016	CARL A MILLER SUB BATTERY	70
10/28/2016	Sierra Mitchell #32-8	50
10/28/2016	PETE MONTOYA	40
10/28/2016	DWIGHT G HANKS B	50
10/28/2016	Teets Perrin #1; 2; 3; 4; 5	60
10/31/2016	MUSICK-McCLINTOCK #3; 5	40
10/31/2016	VINCENT-EWING	40
10/31/2016	EWING-SHANNON	50
10/31/2016	VAWTER #13-2; #14-2	90
10/31/2016	Donald E Miller B #1	130
10/31/2016	FACILITY #1	130
10/31/2016	BAURER/EIBERGER	90
10/31/2016	STANDLEY #1-2	55
10/31/2016	STANDLEY #5-2; 6-2; 8-3	50
11/1/2016	HILL #3-10; 4-10	50
11/1/2016	Suckla Brown Unit #17	50
11/1/2016	FACILITY #8	120
11/1/2016	TOM L RUSSELL	5
11/1/2016	FACILITY #7	130
11/1/2016	WAGNER B	20
11/1/2016	UPRR 42 PAN AM N #4	40
11/1/2016	FACILITY #4	125
11/1/2016	GUTHRIE	30
11/1/2016	Newlander #1	40
11/1/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	120
11/2/2016	NRC #9-9-15H	65
11/2/2016	FACILITY #1	10
11/2/2016	ROY DUTCHER	75
11/2/2016	ELKHORN	45
11/2/2016	Becky #1; #5-6	60
11/2/2016	FACILITY #3	40
11/2/2016	AMOCO ENERGY SMITS	40
11/2/2016	LANSDOWN-LEGG	10
11/2/2016	CLEMENTINE B COBURN	30

Date	Name	Volume (bbl)
11/2/2016	GUILDNER	30
11/2/2016	UPRR 42 PAN AM AF	50
11/2/2016	JACK BERGER A	1
11/2/2016	FACILITY #8	1
11/3/2016	FACILITY #5	130
11/3/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
11/3/2016	JACOBUCCI; JEAN #1; 2; 3; 4	20
11/3/2016	NORTH QUEBEC #1; 12-8; 16-8	50
11/3/2016	Christensen #4-9	70
11/3/2016	MILLARD	25
11/3/2016	Foreman Unit #1	60
11/3/2016	CLEMENTINE B COBURN	25
11/3/2016	WILLIAM D LANSDOWN	50
11/3/2016	MCCRUMB	50
11/3/2016	Carter #21-33	130
11/3/2016	FACILITY #2	130
11/3/2016	North Washington #1-23	50
11/3/2016	North Washington #8-23	50
11/4/2016	PETE MONTOYA B	40
11/4/2016	NORMAN W YURK	40
11/4/2016	FIRECRACKER	80
11/4/2016	JACOBUCCI; JEAN #1; 2; 3; 4	80
11/4/2016	FACILITY #4	80
11/4/2016	FACILITY #4	130
11/4/2016	UPRR 43 I	50
11/4/2016	FACILITY #1	80
11/4/2016	CARL A MILLER SUB BATTERY	40
11/4/2016	BAURER/EIBERGER	70
11/4/2016	GUTHRIE	20
11/7/2016	FACILITY #7	130
11/7/2016	CHRISTENSEN #4-9	30
11/7/2016	MCCRUMB	5
11/8/2016	FACILITY #2	40
11/8/2016	VAWTER #13-2; #14-2	80
11/8/2016	Pace Connelly #1; 2; 5	55
11/8/2016	Dacono #1; #2; #3	65
11/8/2016	CARL R DEEPE C	40
11/8/2016	MUSICK-McCLINTOCK #3; 5	50
11/8/2016	WUERTZ #12-3	40
11/8/2016	JORDAN #1	45
11/8/2016	R HORTH #1-2	80
11/8/2016	ALFRED HERMAN	35
11/8/2016	JACK BERGER A	45
11/9/2016	SIDNEY STREAR	50
11/9/2016	BAURER/EIBERGER	80
11/9/2016	Newlander #1	40

Date	Name	Volume (bbl)
11/9/2016	GUTHRIE	50
11/9/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
11/9/2016	Franklin Stermole Unit #1	40
11/9/2016	ELKHORN	35
11/9/2016	FRONT RANGE #11-17-5 & 6	70
11/9/2016	LANSDOWN-LEGG	80
11/9/2016	Cf&C #3-83 (Hill 1A)	60
11/10/2016	HEIN-HALEY-MILLER	40
11/10/2016	FACILITY #7	130
11/10/2016	Rollie J Vincent J #3	30
11/10/2016	LANSON FARM	65
11/10/2016	GENESIS #3 & #9-2	35
11/10/2016	Grant	40
11/10/2016	FACILITY #S4WB	130
11/10/2016	FACILITY #1	130
11/11/2016	SRC Pratt #29XD	130
11/11/2016	State #32-26	40
11/11/2016	Sierra Mitchell #32-8	50
11/11/2016	CARL A MILLER SUB BATTERY	80
11/11/2016	FACILITY #S4WA	110
11/11/2016	Jillson #1; 2; 3; 4; 5; 6	20
11/11/2016	Brand #1	70
11/11/2016	FACILITY #4	130
11/11/2016	ANDERSON SPRAGUE	60
11/14/2016	BAURER/EIBERGER	80
11/14/2016	Moser #1-A	40
11/14/2016	FACILITY #8	120
11/14/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	45
11/14/2016	Walsh #2; 3; 4; 5	40
11/14/2016	STANDLEY #5-2; 6-2; 8-3	80
11/14/2016	Rollie J Vincent J #3	20
11/15/2016	Uprr 42 Pan Am An #2	10
11/15/2016	Teets Perrin #1; 2; 3; 4; 5	60
11/15/2016	Dechant State #1; 2; 3; 4; 5; 6; 7	70
11/15/2016	MEREDITH	45
11/15/2016	UPRR 43 I	60
11/15/2016	FIRECRACKER	60
11/16/2016	GUTHRIE	50
11/16/2016	Newlander #1	50
11/16/2016	Donald E Miller B #1	130
11/16/2016	Jillson #1; 2; 3; 4; 5; 6	50
11/16/2016	Bernhardt #1-11	35
11/16/2016	KAMMERZELL #1-9; 7-4	35
11/16/2016	Phelps #3-26	20
11/16/2016	Phelps #2-17	30
11/16/2016	Loeffler #1-18	30

Date	Name	Volume (bbl)
11/16/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	130
11/16/2016	Zarlengo #14-4	45
11/16/2016	Tippett #6-2	40
11/16/2016	Wenzel-Hosmer #4-4	45
11/16/2016	FACILITY #5	130
11/17/2016	EDKAM #4-33; 5-34	130
11/17/2016	EDKAM #4-33; 5-34	130
11/17/2016	FACILITY #4	130
11/17/2016	ALFRED HERMAN	40
11/17/2016	KUNZMAN	30
11/17/2016	MUSICK-McCLINTOCK #3; 5	45
11/17/2016	Fern Miller Wikstrand #2	30
11/18/2016	VAWTER #13-2; #14-2	80
11/18/2016	Genesis #1	20
11/18/2016	GUILDNER	20
11/18/2016	DWIGHT G HANKS B	20
11/18/2016	SUCKLA FARMS A;C;D	20
11/18/2016	Millard #43-30	40
11/18/2016	CLEMENTINE B COBURN	40
11/18/2016	BAURER/EIBERGER	60
11/18/2016	UPRR 42 PAN AM N #4	40
11/18/2016	ELKHORN	35
11/18/2016	NRC #9-9-15H	75
11/18/2016	CARL A MILLER SUB BATTERY	65
11/21/2016	FACILITY #S4WB	75
11/21/2016	Jillson #1; 2; 3; 4; 5; 6	30
11/21/2016	SHAW	70
11/21/2016	FACILITY #1	130
11/21/2016	LANSDOWN-LEGG	60
11/21/2016	AMOCO-CHARTER-SCHNEIDER	20
11/21/2016	KOESTER BATTERY	40
11/21/2016	Koester #3-33-3	40
11/21/2016	MILLARD	60
11/22/2016	Neff #1; #2	80
11/22/2016	ANDERSON SPRAGUE	60
11/22/2016	NEWLANDER #1	40
11/22/2016	GUTHRIE	40
11/22/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	60
11/22/2016	FACILITY #2	80
11/22/2016	Grant	35
11/22/2016	LANSON FARM	55
11/22/2016	UPRR 43 I	40
11/22/2016	NORTH YORK #13-12; #14-12	50
11/22/2016	NORTH WASHINGTON #1-23	80
11/22/2016	LANSDOWN-LEGG	50
11/22/2016	AMOCO ENERGY SMITS	50

Date	Name	Volume (bbl)
11/22/2016	FRONT RANGE #11-17-10	70
11/22/2016	CARTER #21-33	130
11/22/2016	Dacono #1; #2; #3	70
11/22/2016	MUSICK-McCLINTOCK #3; 5	40
11/22/2016	Parker #1; #2	50
11/22/2016	FACILITY #7	130
11/23/2016	DWIGHT G HANKS B	50
11/23/2016	MILLARD	30
11/23/2016	MARTIN T HART	40
11/23/2016	ROLLIE J VINCENT A #1	40
11/23/2016	FINDLAY SUB BATTERY	130
11/23/2016	FACILITY #4	130
11/23/2016	CARL A MILLER SUB BATTERY	30
11/23/2016	FACILITY #S4WA	90
11/23/2016	Jillson #1; 2; 3; 4; 5; 6	20
11/23/2016	BAURER/EIBERGER	80
11/23/2016	MCCOY-WOOLEY	20
11/23/2016	FACILITY #2	100
11/23/2016	FACILITY #8	130
11/23/2016	Teets Perrin #1; 2; 3; 4; 5	50
11/23/2016	NRC #9-9-15H	60
11/28/2016	STATE #14	130
11/28/2016	MARGARET TWOMBLY B #1; 3; 5	50
11/28/2016	FACILITY #4	130
11/28/2016	GEORGE H GERHARDT	50
11/28/2016	FACILITY #7	130
11/28/2016	MURPHY #5-2	30
11/29/2016	FACILITY #8	130
11/29/2016	CHARLES C BELL	75
11/29/2016	NELS CHRISTIANSEN	45
11/29/2016	FACILITY #3	45
11/29/2016	Millard #43-30	130
11/29/2016	MILLARD	30
11/29/2016	Pace Connelly #1; 2; 5	80
11/29/2016	Newlander #1	40
11/29/2016	GENESIS #3 & #9-2	30
11/29/2016	GUTHRIE	40
11/29/2016	STANDLEY #5-2; 6-2; 8-3	60
11/29/2016	Koester #3-33-3	20
11/30/2016	STATE #14	130
11/30/2016	Zarlengo #14-4	40
11/30/2016	Christensen #4-9	50
11/30/2016	FACILITY #7	130
11/30/2016	VAWTER #13-2; #14-2	60
11/30/2016	LANSDOWN-LEGG	60
11/30/2016	Amen #1	30

Date	Name	Volume (bbl)
11/30/2016	MUSICK-McCLINTOCK #3; 5	50
11/30/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
11/30/2016	EDKAM #4-33; 5-34	130
11/30/2016	EDKAM #4-33; 5-34	130
12/1/2016	HILL #3-10; 4-10	30
12/1/2016	MONTGOMERY #1-27	30
12/1/2016	FRONT RANGE #11-17-7 & 8	60
12/1/2016	CARTER #21-33	130
12/1/2016	BAURER/EIBERGER	70
12/1/2016	FIRECRACKER	80
12/1/2016	ELKHORN	40
12/1/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	100
12/2/2016	FACILITY #S4WA	65
12/2/2016	FACILITY #1	65
12/2/2016	FACILITY #S4WB	60
12/2/2016	Jillson #1; 2; 3; 4; 5; 6	40
12/2/2016	McConahay #33-34	130
12/2/2016	MUSICK-McCLINTOCK #3; 5	20
12/2/2016	VAWTER #15-2; #16-2	70
12/2/2016	DWIGHT G HANKS B	40
12/2/2016	CARL A MILLER SUB BATTERY	60
12/2/2016	NRC #9-9-15H	40
12/2/2016	MILLARD	60
12/2/2016	MARGARET TWOMBLY B #1; 3; 5	60
12/5/2016	CLEMENTINE B COBURN	70
12/5/2016	FACILITY #S4WA	5
12/5/2016	NORTH WASHINGTON #1-23	100
12/5/2016	FACILITY #4	125
12/5/2016	Carter #21-33	130
12/5/2016	FACILITY #4	175
12/5/2016	FACILITY #4	175
12/6/2016	FACILITY #2	80
12/6/2016	UPRR 42 PAN AM N #4	35
12/6/2016	FACILITY #7	130
12/6/2016	Pace Connelly #1; 2; 5	35
12/6/2016	LANSON FARM	50
12/6/2016	Dacono #1; #2; #3	30
12/6/2016	Tippett #6-2	60
12/6/2016	Newlander #1	40
12/6/2016	GUTHRIE	40
12/7/2016	CHARLES C BELL	40
12/7/2016	MCCRUMB	40
12/7/2016	PREMIUM TURKEY FARMS	30
12/7/2016	Suckla Brown Unit #17	30
12/7/2016	FIRECRACKER	60
12/8/2016	Strong #1-7	150

Date	Name	Volume (bbl)
12/8/2016	MUSICK-McCLINTOCK #3; 5	40
12/8/2016	MILLARD	40
12/8/2016	GREELEY NATIONAL BANK B	80
12/8/2016	FACILITY #5	130
12/8/2016	Becky #1; #5-6	60
12/8/2016	Woolley #1; #2	60
12/9/2016	FACILITY #8	130
12/9/2016	FACILITY #4	130
12/9/2016	STATE #2-26; 3-26	40
12/9/2016	R HORTH #1-2	40
12/9/2016	VINCENT-EWING	40
12/9/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
12/9/2016	HEIN	40
12/9/2016	UPRR 43 I	50
12/12/2016	ROY DUTCHER	90
12/12/2016	LANSDOWN-LEGG	40
12/12/2016	FACILITY #6	130
12/12/2016	FACILITY #4	130
12/12/2016	FACILITY #S4WA	130
12/13/2016	ALFRED HERMAN	50
12/13/2016	Wind #1	70
12/13/2016	FACILITY #7	130
12/13/2016	MARIE GERHARDT B	50
12/13/2016	UPRR 42 PAN AM G	50
12/13/2016	SUCKLA FARMS A;C;D	40
12/13/2016	HORST-SCHUTT	30
12/14/2016	GENESIS #3 & #9-2	40
12/14/2016	Noel #3-18	40
12/14/2016	WILLIAM D LANSDOWN	50
12/14/2016	AMOCO ENERGY SMITS	40
12/14/2016	Millard #43-30	90
12/14/2016	Newlander #1	30
12/14/2016	ELKHORN	30
12/14/2016	SIDNEY STREAR	40
12/14/2016	NRC #9-9-15H	65
12/14/2016	CARL A MILLER SUB BATTERY	65
12/15/2016	Grant	30
12/15/2016	LANSON FARM	50
12/15/2016	VAWTER #13-2; #14-2	85
12/15/2016	FACILITY #4	100
12/16/2016	PREMIUM TURKEY FARMS	40
12/16/2016	Guildner #1	40
12/16/2016	MARTIN T HART	40
12/16/2016	SAM FUNAKOSHI	40
12/16/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	40
12/16/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	60

Date	Name	Volume (bbl)
12/16/2016	Jillson #1; 2; 3; 4; 5; 6	30
12/16/2016	FACILITY #S4WB	80
12/16/2016	CARL R DEEPE C	40
12/16/2016	MUSICK-McCLINTOCK #3; 5	30
12/16/2016	GREELEY NATIONAL BANK B	70
12/16/2016	DEVORE	30
12/16/2016	Uprr 42 Pan Am AJ #1	1
12/16/2016	Alfred Herman Unit #2	1
12/19/2016	SRC Pratt #29XD	110
12/19/2016	STANDLEY #5-2; 6-2; 8-3	60
12/19/2016	FIRECRACKER	50
12/19/2016	UPRR 43 I	80
12/19/2016	JEFFERS-HART	60
12/20/2016	Wenzel-Hosmer #4-4	30
12/20/2016	Sierra Mitchell #32-8	30
12/20/2016	STATE #14	70
12/20/2016	DWIGHT G HANKS B	40
12/20/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	50
12/20/2016	FACILITY #8	130
12/20/2016	WELD COUNTY B-C	100
12/20/2016	Owen #12-1	70
12/20/2016	CHARLES C BELL	60
12/21/2016	FACILITY #7	130
12/21/2016	FACILITY #2	130
12/21/2016	ANDERSON SPRAGUE	65
12/21/2016	FACILITY #8	65
12/21/2016	BAURER/EIBERGER	130
12/21/2016	WAGNER B	30
12/21/2016	Rollie J Vincent J #3	40
12/21/2016	FACILITY #3	60
12/21/2016	FACILITY #1	120
12/21/2016	FACILITY #S4WA	120
12/22/2016	FRONT RANGE #11-17-7 & 8	75
12/22/2016	UPRR 42 PAN AM N #4	35
12/22/2016	Teets Perrin #1; 2; 3; 4; 5	75
12/22/2016	NELS CHRISTIANSEN	45
12/23/2016	NORTH YORK #13-12; #14-12	70
12/23/2016	FACILITY #8	100
12/23/2016	FACILITY #7	130
12/23/2016	LANSON FARM	30
12/23/2016	FIRECRACKER	60
12/23/2016	Carter #21-33	130
12/23/2016	NRC #9-9-15H	40
12/23/2016	ROCKY MTN FUEL 9-8; C-4; C-9; C-10	30
12/24/2016	UPRR 23 PAN AM M #1-2	30
12/24/2016	R HORTH #1-2	50

Date	Name	Volume (bbl)
12/25/2016	LANSON FARM	60
12/27/2016	NORTH QUEBEC #1; 12-8; 16-8	50
12/27/2016	Bredehoft #1	50
12/27/2016	MCCRUMB	50
12/27/2016	VAWTER #13-2; #14-2	80
12/27/2016	CARL A MILLER SUB BATTERY	70
12/27/2016	ZARLENGO #1; 2; 3; 4; B1; 6-4	60

APEX CONSULTING SERVICES, INC.
566 West Willow Court
Reply to: P.O. Box 369
Louisville, CO 80027-0369
Phone: 303-665-1400
email: mhattel@msn.com

December 12, 2016

Ms. Susana Lara-Mesa
K.P. Kauffman Company, Inc.
World Trade Center
1675 Broadway, Suite 2800
Denver, CO 80202-4825

Re: November 2016, Groundwater Monitoring, Wattenberg Disposal Facility, Weld County, Colorado

Dear Ms. Lara-Mesa:

Apex Consulting Services, Inc. (APEX) has completed the most recent semi-annual groundwater monitoring at the Wattenberg Disposal Facility (Facility) in Weld County, Colorado (Figure 1). This letter report presents a summary of the work performed, the results of the groundwater analysis, and our conclusions.

BACKGROUND

The Facility was originally constructed in 1972 by the Amoco Production Company to dispose of production water from oil and gas wells in the D-J Basin. Wright's Disposal, Inc. purchased the Facility from Amoco in June 1989 and K.P. Kaufman Company, Inc. (KPK) purchased the Facility in June 1998. KPK currently operates the Facility for deep injection disposal of non-hazardous Class I and Class II liquid waste as defined in 40 CFR 144.6. The Facility is operated under the U.S. EPA Underground Injection Control Program, Final Permit No. CO 1516-2115. Three groundwater observation wells (OW-1, OW-2, and OW-3) are located around the periphery of the Facility to monitor groundwater flow direction, gradient, and quality. A groundwater monitoring plan was prepared by Nationwide Environmental Services, Inc. on January 3, 2002. The monitoring plan was subsequently approved by the Solid Waste Unit of the Colorado Department of Public Health and Environment. The monitoring plan included semi-annual groundwater monitoring (OW-1, OW-2, and OW-3) for major cations (calcium, magnesium, potassium, and sodium), major anions (bicarbonate, carbonate, chloride, nitrate, nitrite, and sulfate), Total Organic Carbon (TOC), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and Total Petroleum Hydrocarbons (TPH). During the January 2007 sampling event, product was encountered on the groundwater in observation well OW-3. Contaminated soils in the vicinity of observation well OW-3 were excavated and replaced with clean fill. Observation well OW-3 was removed during the excavation of the contaminated soils. Following the removal of the contaminated soil, a new observation well (OW-3) was installed at the previous location. At the request of the Colorado Department of Public Health and Environment, an additional observation well (OW-4) was installed to the north of the Facility in June 2009. In July and October 2013, confirmation sampling for BTEX compounds confirmed the presence of benzene in observation well OW-1. In a September 2013 meeting with CDPHE, KPK noted that a release from an up-gradient facility occurred in 2008. In the meeting, KPK agreed to analyze laboratory data from OW-1 (from 2008 to the present) and to include STIFF diagrams in the December 2013 monitoring report. On March 4, 2014, an additional observation well (OW-5) was completed to the southeast of the Facility. The observation well was completed to a total depth of 24 feet. To date, groundwater has not been measured in the observation well.

GROUNDWATER SAMPLING

Groundwater samples were collected for laboratory analyses from observation wells OW-1, OW-2, OW-3 and

OW-4 on November 15, 2016. Groundwater was not present in observation well OW-5. Prior to groundwater sampling, groundwater elevations were measured and recorded in each of the aforementioned observation wells located at the Property. The locations of the observation wells are illustrated on Figure 2. Each of the wells was surveyed to a local datum. Shallow groundwater was present in the wells at depths ranging from approximately 11.5 (OW-3) to 15.8 (OW-1) feet below the ground surface (bgs). The groundwater elevation for each well is illustrated on Table 1. Relative groundwater elevations are shown on Figure 2. Groundwater flow direction was determined to be to the north-northwest for this monitoring period. Free product was not present on the groundwater in any of the wells. The observation wells were prepared for sampling by purging three wet well volumes of groundwater from each well with a dedicated bailer. During purging of each observation well, pH, specific conductance, and temperature were measured. The probes were calibrated before (within 2 hours) taking the measurements. Specific conductance was measured using equivalent EPA standard method 9050. Temperature and pH were measured using a standard probe equivalent to EPA standard method 9040 or 150.1. Groundwater was sampled from the observation wells with a dedicated bailer when pH, specific conductance, and temperature parameters were stable. The pH, specific conductance, and temperature measurements recorded for each sample are summarized on Tables 1, 2, and 3.

GROUNDWATER LABORATORY ANALYSES

The groundwater samples were handled with clean, new, nitrile gloves and placed in laboratory supplied vials and bottles. The samples and a trip blank (distilled water) were stored on ice in a cooler on ice. The samples were delivered under chain of custody to eAnalytics Laboratory in Loveland, Colorado for laboratory analysis. The groundwater samples collected from the observation wells were analyzed for calcium, magnesium, potassium, sodium, chloride, nitrate, nitrite, sulfate, TOC, bicarbonate, carbonate, BTEX, and TPH. Laboratory results are summarized on Tables 1, 2, and 3. Laboratory reports provided by eAnalytics Laboratory are included in Attachment I.

CONCLUSIONS

Groundwater samples were collected for laboratory analysis from the observation wells OW-1, OW-2, OW-3 and OW-4 on November 15, 2016. The analytical results for this monitoring event are consistent with the results from historical monitoring except for calcium and magnesium. The detected calcium and magnesium concentrations in the samples collected from observation well OW-4 are slightly lower than historical values. Additionally, the depth to groundwater and groundwater flow direction are consistent with historical results.

The next semi-annual groundwater monitoring event is scheduled for May 2017. Following the conclusion of the next semi-annual groundwater monitoring event, the data will be evaluated to determine if there is a significant change in groundwater elevation and/or quality.

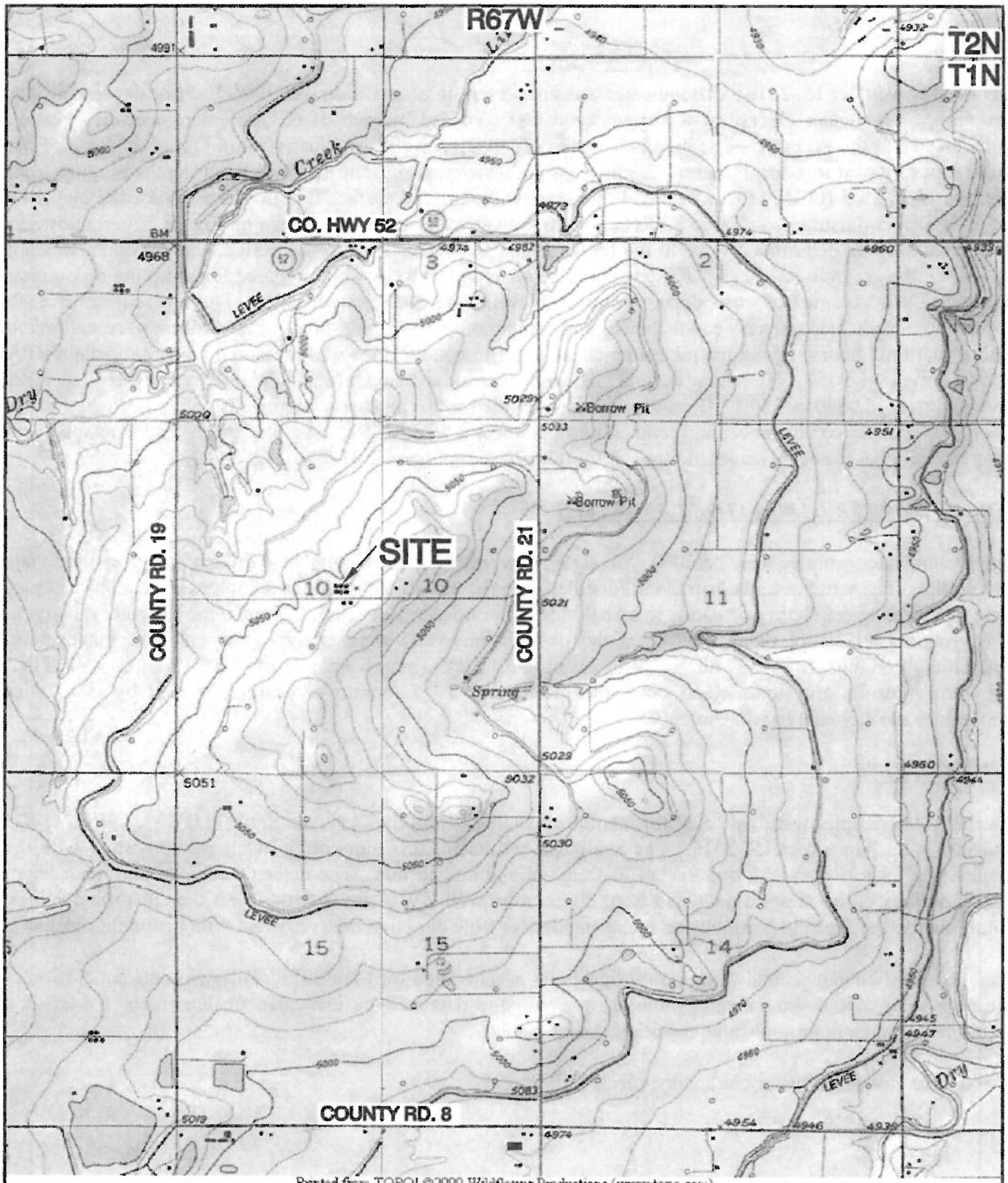
If you have any questions or comments, please call.

Sincerely,

APEX CONSULTING SERVICES, INC.

Michael Hattel

Michael D. Hattel, P.G., P.E.S.
Attachments
C:\Users\Owner\Documents\KPK (025)\Wattenberg\Rpts\KPK.GW.RPT.0516.rtf



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APEX JOB: 1-0025.001.00

NORTH

0 1000 2000

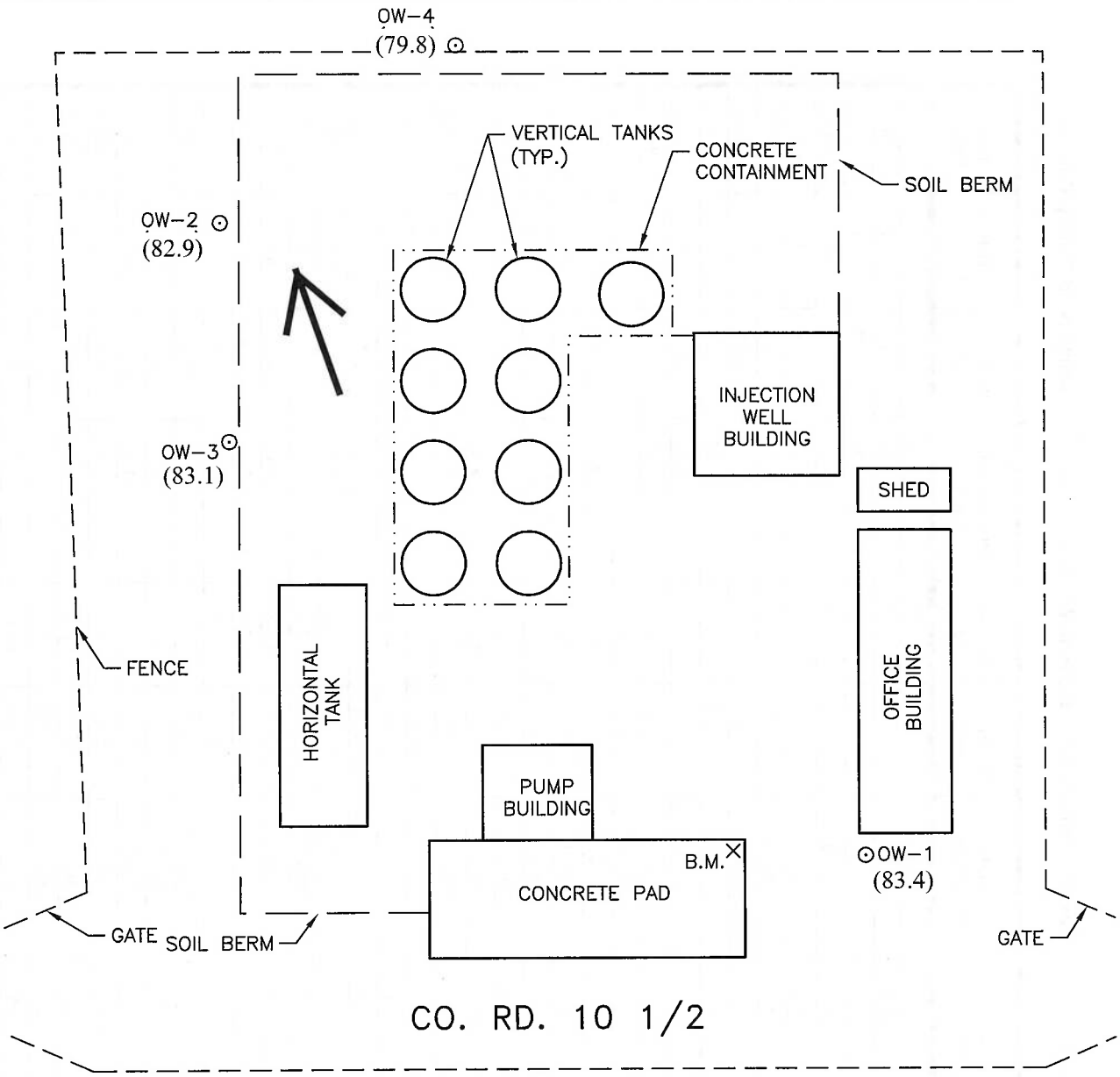
SCALE: 1" = 2000'

WATTENBERG DISPOSAL FACILITY
VICINITY MAP

APEX

FIGURE:
1

MDS FILE: 01-054\VICINITY-WATTENBERG.DWG



LEGEND:

⊙ OW-2 (80.7)	OBSERVATION WELL, NUMBER, AND RELATIVE GROUNDWATER ELEVATION
↖	CURRENT GROUNDWATER FLOW DIRECTION
B.M.	BENCH MARK, ELEVATION 100.00 FEET
ND	NO DATA

APEX JOB: 1-0025.001.00

NORTH

0 30 60

SCALE: 1" = 60'

WATTENBERG DISPOSAL FACILITY
SITE MAP
November 15, 2016

APEX

FIGURE:
2

C:\MDS WORK FILES\files\01-054\SITEMAP-WATTENBERG_12-12

TABLE 1

Summary of BTEX[1], TPH[2] and TOC[3] Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	Depth to Water (ft.)	pH	Temperature (Celsius)	Specific Conductance[3]	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	TPH (mg/L)	TOC[4] (mg/L)
OW-1	9/18/02	83.9	6.46	17.5	>4000	<.15	<.18	<.24	<.63	<1.6	79.0
	12/16/02	83.5	6.54	14.9	>4000	<.15	<.18	<.24	<.63	<1.6	29.0
	6/30/03	84.6	6.64	13.2	>4000	<1.5	<.18	<.24	<.63	<1.6	250.0
	12/30/03	83.7	6.54	14.1	>4000	<.15	<.18	<.24	<.63	<1.6	86.0
	6/30/04	83.7	6.19	13.2	>4000	<.18	<.21	<.17	<.96	<1.5	28.0
	12/29/04	83.8	6.30	12.9	>4000	<.18	<.21	<.17	<.96	<1.6	33.0
	6/30/05	84.4	6.60	13.2	>4000	<.07	<.07	<.07	<.20	<1.5	27.0
	12/28/05	83.9	6.85	15.5	>4000	<.07	<.07	<.08	<.20	<1.5	27.0
	6/29/06	83.7	6.54	13.5	>4000	1.00	<.07	1.1	5.00	<1.5	140.0
	7/27/06[5]	83.6	6.51	13.6	>4000	<.07	<.07	<.08	<.20	NA	NA
	1/25/07	82.3	6.81	13.3	>4000	<1.0	<2.0	<2.0	<4.0	5.3	28.7
	7/2/07	85.3	6.59	12.9	>4000	<1.0	<2.0	<2.0	<4.0	15.0	30.0
	1/31/08	83.8	6.69	12.9	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	30.3
	6/24/08	84.7	6.52	12.3	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	31.4
	12/29/08	84.1	6.50	14.7	>4000	<1.0	<2.0	<2.0	<4.0	6.2	30.1
	6/29/09	85.3	6.52	14.9	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	30.8
	12/15/09	84.4	6.51	13.3	>4000	<1.0	<2.0	<2.0	<4.0	5.9	30.6
	6/23/10	86.0	6.61	12.4	>4000	<1.0	<2.0	<2.0	<4.0	5.0	31.8
	12/13/10	84.9	6.80	14.6	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	31.7
	6/21/11	85.8	6.62	12.3	>4000	0.28	<1.0	<1.0	<2.0	7.1	29.2
	7/12/11	85.7	6.58	12.4	>4000	<1.0	<2.0	<2.0	<2.0	NA	NA
	12/21/11	85.0	6.56	13.8	>4000	1.00	<2.0	<2.0	<2.0	10.3	34.5
	1/13/12	86.2	6.55	14.0	>4000	<1.0	<2.0	<2.0	<2.0	NA	NA
	6/19/12	85.2	6.76	13.4	>4000	<2.0	<2.0	<2.0	<2.0	<4.9	33.3
	12/17/12	86.1	6.80	14.3	>4000	<0.2	<1.0	<1.0	<2.0	5.8	31.8
	06/13/13	86.2	6.65	12.6	>4000	1.70	<1.0	<1.0	<2.0	<5.2	26.2
	07/1/13	86.7	6.70	12.5	>4000	1.50	<1.0	<1.0	<2.0	NA	NA
	10/10/13	87.1	6.71	12.6	>4000	3.60	<1.0	<1.0	<2.0	NA	NA
	12/12/13	87.0	6.75	14.1	>4000	3.00	<1.0	<1.0	<2.0	<4.9	22.9
	6/23/14	87.0	6.68	12.7	>4000	45.50	<2.0	1.7J	<2.0	<4.8	42.8
	7/9/14	90.2	6.60	12.5	>4000	12.00	<1.0	<1.0	<2.0	NS	NS
	12/9/14	87.0	6.73	12.5	>4000	0.96	<1.0	<1.0	<2.0	6.4	18.8
	1/2/15	86.9	6.70	12.3	>4000	<1.0	<2.0	<2.0	<2.0	NS	NS

TABLE 1

Summary of BTEX[1], TPH[2] and TOC[3] Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	Depth to Water (ft.)	pH	Temperature (Celsius)	Specific Conductance[3]	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	TPH (mg/L)	TOC[4] (mg/L)
OW-1	5/28/15	88.1	6.71	12.7	>4000	<1.0	<2.0	<2.0.	<2.0.	<4.8	17.2
(Cont.)	11/16/15	82.9	6.69	12.4	>4000	<1.0	<2.0	<2.0	<2.0	<5.3	13.0
	5/23/16	86.4	6.70	12.6	>4000	<1.0	<1.0	<1.0	<1.0	<5.0	73.5
	11/15/16	83.4	6.70	12.3	>4000	<1.0	<1.0	<1.0	<1.0	<10.0	74.5
OW-2	9/18/02	80.3	7.05	14.8	>4000	<.15	<.18	<.24	<.63	<1.6	230.0
	12/16/02	79.8	7.09	14.0	>4000	<.15	<.18	<.24	<.63	<1.6	60.0
	6/30/03	80.1	7.28	12.9	>4000	<.15	<.18	<.24	<.63	<1.7	150.0
	12/30/03	80.1	7.23	13.3	>4000	<.15	<.18	<.24	<.63	<1.7	58.0
	6/30/04	80.1	6.86	13.0	>4000	<.18	<.21	<.17	<.96	<1.5	37.0
	12/29/04	80.0	6.80	12.3	>4000	<.18	<.21	<.17	<.96	<1.4	54.0
	6/30/05	80.1	7.18	12.5	>4000	<.07	<.07	<.07	<.20	<1.5	48.0
	12/28/05	79.4	7.23	14.5	>4000	<.07	<.07	<.07	<.20	<1.5	48.0
	6/29/06	79.5	7.22	12.9	>4000	<.07	<.07	<.08	<.20	<1.5	59.0
	1/25/07	80.2	7.37	12.8	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	44.4
	7/2/07	79.6	7.18	13.3	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	36.7
	1/31/08	79.6	7.27	12.6	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	43.0
	6/24/08	80.3	7.18	12.1	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	47.1
	12/29/08	80.4	7.13	14.0	>4000	<1.0	<2.0	<2.0	<4.0	<4.0	45.4
	6/29/09	80.4	7.15	14.2	>4000	<1.0	<2.0	<2.0	<4.0	5.7	43.9
	12/15/09	80.6	7.11	13.0	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	43.1
	6/23/10	80.5	7.30	12.4	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	43.5
	12/13/10	80.9	7.14	13.6	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	44.5
	6/21/11	80.8	7.19	12.5	>4000	<0.2	<1.0	<1.0	<2.0	4.9	37.2
	12/21/11	80.8	7.21	12.5	>4000	0.25	<2.0	<2.0	<2.0	12.8	46.4
	1/13/12	80.6	7.20	13.0	>4000	<1.0	<2.0	<2.0	<2.0	NA	NA
	6/19/12	80.7	7.30	12.4	>4000	<1.0	<2.0	<2.0	<2.0	<4.8	45.4
	12/17/12	80.6	7.34	13.2	>4000	<0.2	<1.0	<1.0	<2.0	<4.8	46.2
	6/13/13	81.8	7.15	12.5	>4000	<0.2	<1.0	<1.0	<2.0	<4.9	46.2
	12/12/13	83.6	7.35	13.8	>4000	<0.2	<1.0	<1.0	<2.0	<4.9	42.6
	6/23/14	84.9	7.10	12.5	>4000	<0.2	<1.0	<1.0	<2.0	<4.9	33.6
	12/9/14	85.0	7.21	12.2	>4000	1.60	<1.0	<1.0	<2.0	<5.1	33.6

TABLE 1

Summary of BTEX[1], TPH[2] and TOC[3] Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	Depth to Water (ft.)	pH	Temperature (Celsius)	Specific Conductance[3]	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	TPH (mg/L)	TOC[4] (mg/L)
OW-2	1/2/15	84.9	7.20	12.3	>4000	<1.0	<2.0.	<2.0	<2.0	NS	NS
(Cont.)	5/28/15	82.7	7.15	12.4	>4000	<1.0	<2.0	<2.0	<2.0	<5.0	44.1
	11/16/15	82.4	7.20	12.3	>4000	<1.0	<2.0	<2.0	<2.0	<4.8	46.3
	5/23/16	83.3	7.17	12.4	>4000	<1.0	<1.0	<1.0	<1.0	<5.0	19.3
	11/15/16	82.9	7.19	12.3	>4000	<1.0	<1.0	<1.0	<1.0	<10.0	24.6
OW-3	9/18/02	78.2	6.88	15.4	>4000	<.15	<.18	<.24	<.63	<5.1	95.0
	12/16/02	77.8	7.08	15.3	>4000	<.15	<.18	<.24	<.63	<1.6	63.0
	6/30/03	78.5	7.05	14.6	>4000	<.15	<.18	<.24	<.63	<1.6	200.0
	12/30/03	78.6	7.27	13.4	>4000	<.15	<.18	<.24	<.63	<1.8	85.0
	6/30/04	77.4	6.89	12.4	>4000	3.5	1.3	<.17	<.96	<2.0	68.0
	9/9/04[5]	77.9	6.86	13.5	>4000	<.18	<.17	<.17	<.96	NA	NA
	12/29/04	77.4	6.65	12.3	>4000	<.18	<.21	<.17	<.96	<1.5	78.0
	6/30/05	78.0	6.90	12.5	>4000	<.07	<.07	<.09	<.20	<1.6	80.0
	12/28/05	77.2	7.12	15.2	>4000	<.07	<.07	<.09	<.20	<1.5	92.0
	6/29/06	77.3	7.59	15.8	>4000	<.07	<.07	<.09	<.20	<1.5	82.0
	1/25/07	77.6	7.47	12.7	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	62.9
	7/2/07	77.6	6.90	13.7	>4000	1500	71000	19000	178000	NA	NA
	1/31/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/24/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/05/09	75.9	7.05	14.0	>4000	<1.0	<2.0	<2.0	<4.0	<5.0	53.0
	6/29/09	78.0	7.15	14.1	>4000	1.0	<2.0	<2.0	<4.0	5.0	43.5
	7/27/09	78.1	7.11	14.2	>4000	NA	NA	NA	NA	NA	NA
	12/15/09	79.0	7.17	13.0	>4000	1.6	<2.0	<2.0	<4.0	<6.33	46.4
	1/04/10	79.2	7.15	13.2	>4000	<1.0	<2.0	<2.0	<4.0	NA	NA
	6/23/10	80.3	7.35	12.3	>4000	<1.0	<2.0	<2.0	<4.0	<13.0	44.8
	12/13/10	79.4	7.05	13.2	>4000	<1.0	<2.0	<2.0	<4.0	7.6	45.0
	6/21/11	79.9	7.19	12.3	>4000	1.4	<1.0	<1.0	<2.0	<6.2	40.1
	7/12/11	79.9	7.15	12.4	>4000	<1.0	<1.0	<1.0	<1.0	NA	NA
	12/21/11	81.7	7.20	12.0	>4000	1.3	<2.0	<2.0	<2.0	7.3	45.9
	1/13/12	81.7	7.15	11.9	>4000	<1.0	<2.0	<2.0	<2.0	NA	NA

TABLE 1

Summary of BTEX[1], TPH[2] and TOC[3] Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	Depth to Water (ft.)	pH	Temperature (Celsius)	Specific Conductance[3]	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	TPH (mg/L)	TOC[4] (mg/L)
OW-3	6/19/12	81.6	7.41	13.3	>4000	<1.0	<2.0	<2.0	<2.0	<5.0	40.5
(Cont.)	12/17/12	81.4	7.33	13.5	>4000	<0.2	<1.0	<1.0	<2.0	<5.0	37.3
	6/13/13	81.7	7.20	12.3	>4000	2.70	<1.0	<1.0	<2.0	<5.4	37.3
	7/01/13	81.7	7.15	12.3	>4000	<0.2	<1.0	<1.0	<2.0	NA	NA
	12/12/13	83.1	7.03	13.3	>4000	<0.2	<1.0.	<1.0	<2.0	<5.0	36.0
	6/23/14	86.0	7.19	12.4	>4000	2.60	<1.0	<1.0	<2.0	<5.0	32.8
	7/17/14	85.9	7.11	12.5	>4000	<0.20	<1.0	<1.0	<2.0	NS	NS
	12/9/14	82.8	7.07	12.2	>4000	<0.20	<1.0	<1.0	<2.0	<5.1	43.0
	5/28/15	83.7	7.10	12.3	>4000	<1.0	<2.0	<2.0	<2.0	<5.0	33.9
	11/16/15	83.1	7.11	12.4	>4000	<1.0	<2.0	<2.0	<2.0	<5.1	33.8
	5/23/16	85.6	7.08	12.2	>4000	<1.0	<1.0	<1.0	<1.0	<5.0	6.9
	11/15/16	83.1	7.11	12.4	>4000	<1.0	<1.0	<1.0	<1.0	<10.0	9.7
OW-4	12/15/09	71.7	7.14	12.9	>4000	<1.0	<2.0	<2.0	<4.0	NA	68.9
	6/23/10	73.8	7.17	13.5	>4000	<1.0	<2.0	<2.0	<4.0	<7.4	78.4
	12/13/10	74.3	7.18	13.1	>4000	<1.0	<2.0	<2.0	<4.0	<11	69.9
	6/21/11	72.7	7.23	12.2	>4000	<0.2	<1.0	<1.0	<2.0	<6.4	68.1
	12/21/11	73.9	7.12	11.7	>4000	<0.2	<2.0	<2.0	<2.0	8.1	73.8
	6/19/12	72.3	7.41	14.0	>4000	<1.0	<2.0	<2.0	<2.0	<5.2	71.3
	12/17/12	73.1	7.33	12.7	>4000	<0.2	<1.0	<1.0	<2.0	<6.3	70.5
	6/13/13	72.4	7.25	12.3	>4000	<0.2	<1.0	<1.0	<2.0	<7.4	68.3
	12/12/13	74.6	7.29	12.9	>4000	<0.2	<1.0	<1.0	<2.0	<5.3	64.8
	6/23/14	74.2	7.21	12.4	>4000	<0.2	<1.0	<1.0	<2.0	<6.8	65.8
	12/9/14	74.7	7.28	12.4	>4000	<0.2	<1.0	<1.0	<2.0	<5.4	66.1
	5/28/15	74.4	7.25	12.3	>4000	<1.0	<2.0	<2.0	<2.0	<5.0	23.8
	11/16/15	76.5	7.29	12.3	>4000	<1.0	<2.0	<2.0	<2.0	<7.5	39.2
	5/23/16	74.6	7.27	12.4	>4000	<1.0	<1.0	<1.0	<1.0	<5.0	12.6
	11/15/16	79.8	7.10	12.8	>4000	<1.0	<1.0	<1.0	<1.0	<10.0	15.6

1 Benzene, toluene, ethylbenzene, and total xylenes by Method 8021B.
2 Total petroleum hydrocarbons by Method 1664.
3 Specific conductance in micro-siemens at 25 degrees Celsius.
4 Total organic carbon by Method 415.1.
5 Second sample collected in accordance with ground water monitoring plan.

J Estimated value.
mg/L milligrams per liter.
NA Not Analyzed
ug/L micrograms per liter.
NS No Sample

TABLE 2

Summary of Major Cation[1] Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance[2]	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
OW-1	9/18/02	6.46	17.5	>4000	330	310	11	2300
	12/16/02	6.54	14.9	>4000	370	320	15	2500
	6/30/03	6.64	13.2	>4000	370	350	12	2600
	12/30/03	6.54	14.1	>4000	500	340	12	2600
	6/30/04	6.19	13.2	>4000	300	300	11	2000
	12/29/04	6.30	12.9	>4000	420	360	14	2600
	6/30/05	6.73	13.2	>4000	410	370	12	2500
	12/28/05	6.85	15.5	>4000	420	380	18	2700
	6/29/06	6.54	13.5	>4000	440	410	26	2700
	1/25/07	6.81	13.3	>4000	380	350	14	2300
	7/2/07	6.59	12.9	>4000	450	400	21	2700
	1/31/08	6.69	12.9	>4000	460	420	14	2900B
	6/24/08	6.52	12.3	>4000	410	380	11	2800
	12/29/08	6.50	14.7	>4000	460	420	12	2700
	6/29/09	6.52	14.9	>4000	440	410	11	2800
	12/15/09	6.51	13.3	>4000	470	470	15	2400
	6/23/10	6.61	12.4	>4000	554	501	<50	2810
	12/13/10	6.80	14.6	>4000	472	450	13	2540
	6/21/11	6.62	12.3	>4000	457	415	11.7	2400
	12/21/11	6.56	13.8	>4000	427	407	11.9	2530
	6/19/12	6.76	13.4	>4000	510	463	12.6	2720
	12/17/12	6.80	14.3	>4000	437	417	13.5	2300
	6/13/13	6.65	12.6	>4000	273	253	9.65	1990
	12/12/13	6.75	12.5	>4000	260	210	9.51	1830
	6/23/14	6.68	12.7	>4000	116	144	4.32	1170
	12/9/14	6.73	12.5	>4000	138	127	4.26	1410
	5/28/15	6.71	12.7	>4000	160	123	<50	1240
	11/16/15	6.69	12.4	>4000	108	80.2	5.94	752
	5/23/16	6.70	12.6	>4000	246	163	7.12	1234
	11/15/16	6.70	12.7	>4000	172	141	15.3	1289

TABLE 2 (continued)

Summary of Major Cation[1] Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance[2]	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
OW-2	9/18/02	7.05	14.8	>4000	600	680	18	3800
	12/16/02	7.09	14.0	>4000	690	700	23	3700
	6/30/03	7.28	12.9	>4000	600	660	21	4200
	12/30/03	7.23	13.3	>4000	770	640	21	4300
	6/30/04	6.86	13.0	>4000	480	610	18	3500
	12/29/04	6.80	12.3	>4000	600	630	19	4000
	6/30/05	7.18	12.5	>4000	640	670	19	3800
	12/28/05	7.23	14.5	>4000	550	640	22	4000
	6/29/06	7.22	12.9	>4000	580	670	24	4700
	1/25/07	7.37	12.8	>4000	550	620	25	3600
	7/2/07	7.18	13.3	>4000	620	660	38	4300
	1/31/08	7.27	12.6	>4000	600	640	20	4100B
	6/24/08	7.18	12.1	>4000	530	580	18	4000
	12/29/08	7.13	14.0	>4000	570	630	19	4100
	6/29/09	7.15	14.2	>4000	510	560	17	4000
	12/15/0	7.11	13.0	>4000	560	670	22	3300
	6/23/10	7.30	12.4	>4000	648	698	<50	4000
	12/13/10	7.14	13.6	>4000	573	669	17.7	3730
	6/21/11	7.19	12.5	>4000	536	606	17.3	3470
	12/21/11	7.21	12.5	>4000	568	682	19.9	4050
	6/19/12	7.30	12.4	>4000	405	425	10.4	2400
	12/17/12	7.34	13.2	>4000	593	760	20.1	3920
	6/13/13	7.15	12.5	>4000	504	621	22.1	3770
	12/12/13	7.35	13.8	>4000	538	534	20.7	3840
	6/23/14	7.10	12.5	>4000	476	535	15.9	3030
	12/9/14	7.21	12.2	>4000	441	460	15.4	3080
	5/28/15	7.15	12.4	>4000	534	547	<50	3520
	11/16/15	7.20	12.3	>4000	531	550	21.5	2150
	5/23/16	7.17	12.4	>4000	581	518	14.6	2859
	11/15/16	7.19	12.3	>4000	493	544	19.0	3442
OW-3	9/18/02	6.88	15.4	>4000	480	690	16	3900

TABLE 2 (continued)

Summary of Major Cation[1] Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance[2]	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
OW-3	12/16/02	7.08	15.3	>4000	530	720	20	4100
(Cont.)	6/30/03	7.13	14.6	>4000	490	670	17	4200
	12/30/03	7.27	13.4	>4000	640	650	17	4300
	6/30/04	6.89	12.4	>4000	490	610	18	3500
	12/29/04	6.65	12.3	>4000	530	660	18	4100
	6/30/05	6.90	12.5	>4000	530	710	18	4100
	12/28/05	7.12	15.2	>4000	520	730	20	4200
	6/29/06	7.29	15.8	>4000	510	730	22	4400
	1/25/07	7.47	12.7	>4000	510	640	24	3700
	7/2/07	6.90	13.7	>4000	NA	NA	NA	NA
	1/31/08	NS	NS	NS	NS	NS	NS	NS
	6/24/08	NS	NS	NS	NS	NS	NS	NS
	1/05/09	7.05	14.0	>4000	500	630	20	4400
	6/29/09	7.15	14.1	>4000	520	570	17	4200
	12/15/09	7.17	13.0	>4000	460	630	26	3900
	6/23/10	7.35	12.3	>4000	564	695	<50	4310
	12/13/10	7.05	13.2	>4000	512	639	18.9	4030
	6/21/11	7.19	12.3	>4000	422	511	15.5	3130
	12/11/11	7.20	12.0	>4000	455	596	18.0	3960
	6/19/12	7.41	13.3	>4000	447	528	16.8	3530
	12/17/12	7.33	13.5	>4000	466	596	18.9	3520
	6/13/13	7.20	12.3	>4000	412	491	23.8	3790
	12/12/13	7.03	13.3	>4000	426	419	15.9	3030
	6/23/14	7.19	12.4	>4000	411	442	15.1	2590
	12/9/14	7.07	12.2	>4000	541	607	17.4	3910
	5/28/15	7.10	12.3	>4000	472	407	<50	2380
	11/16/15	7.11	12.4	>4000	514	365	13.8	2880
	5/23/16	7.08	12.2	>4000	508	409	17.6	2235
	11/15/16	7.11	12.4	>4000	413	402	28.2	2490
OW-4	12/15/09	7.14	12.9	>4000	500	600	29	3800
	6/23/10	7.17	13.5	>4000	602	617	<50	4610

TABLE 2 (continued)

Summary of Major Cation[1] Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance[2]	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
OW-4	12/13/10	7.18	13.1	>4000	497	583	21.4	3800
(Cont.)	6/21/11	7.23	12.2	>4000	501	559	21	3890
	12/21/11	7.12	11.7	>4000	507	578	22	3910
	6/19/12	7.41	14.0	>4000	504	539	17.9	3740
	12/17/12	7.33	12.7	>4000	519	632	21.5	3950
	6/13/13	7.25	12.3	>4000	475	508	26.8	4100
	12/12/13	7.29	12.9	>4000	510	532	22.4	3700
	6/23/14	7.21	12.4	>4000	510	537	20.8	3310
	12/9/14	7.28	12.4	>4000	538	576	20.3	4220
	5/28/15	7.25	12.3	>4000	992	1210	<50	1510
	11/16/15	7.29	12.3	>4000	329	301	20.1	648
	5/23/16	7.27	12.4	>4000	471	384	16.3	2809
	11/15/16	7.10	12.8	>4000	295	254	17.4	2526

1 By Method 6010B.
B Analyte detected in blank
2 Specific conductance in micro-siemens at 25 degrees Celsius.

NS No Sample
mg/L milligrams per liter.

TABLE 3

Summary of Major Anion Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance[1]	Bicarbonate (mg/L)	Carbonate (mg/L)	Nitrate as N[3] (mg/L)	Nitrite as N[3] (mg/L)	Sulfate[3] (mg/L)	Chloride[3] (mg/L)
OW-1	9/18/02	6.46	17.5	>4000	890	<1	<.36	<.34	2500	3300
	12/16/02	6.54	14.9	>4000	880	<1	<1.4	<1.3	2400	3800
	6/303/03	6.64	13.2	>4000	NS	NS	<1.8	<2.5	1900	3400
	12/30/03	6.54	14.1	>4000	880	<1.2	<0.01	<0.02	2300	1000
	6/30/04	6.19	13.2	>4000	780	<1.2	<0.02	<0.02	2100	3800
	12/29/04	6.30	12.9	>4000	840	<3.4	<0.07	<0.04	2100	3400
	6/30/05	6.73	13.2	>4000	850	<1.2	<0.02	<0.02	2400	3900
	12/28/05	6.85	15.5	>4000	860	<1.2	<0.02	<0.02	2600	4500
	6/29/06	6.54	13.5	>4000	850	<1.2	<0.02	<0.02	2700	4800
	1/25/07	6.81	13.3	>4000	1000	<5.0	<0.56	<0.76	2030	3880
	7/2/07	6.59	12.9	>4000	976	<5.0	<0.10	<0.40	1970	3940
	1/31/08	6.69	12.9	>4000	977	<5.0	<0.25	<0.40	1870	4210
	6/24/08	6.52	12.3	>4000	936	<5.0	<2.3	<6.1	1830	4400
	12/29/08	6.50	14.7	>4000	754	<5.0	<.45	<15	1730	9070
	6/29/09	6.52	14.9	>4000	763	<5.0	<.90	<3.1	1690	4690
	12/15/09	6.51	13.3	>4000	742	<5.0	<1.5	<1.5	1640	4880
	6/23/10	6.61	12.4	>4000	707	<5.0	<0.90	<6.1	1650	4780
	12/13/10	6.80	14.6	>4000	740	<5.0	<0.90	<15	1740	5080
	6/21/11	6.62	12.3	>4000	705	<5.0	<0.45	<15	1680	4650
	12/21/11	6.56	13.8	>4000	803	<5.0	<0.90	<6.1	1660	4150
	6/19/12	6.76	13.4	>4000	822	<5.0	<0.90	<2.5	1790	4170
	12/17/12	6.80	14.3	>4000	792	<5.0	<0.20	<0.4	1890	4120
	6/13/13	6.65	12.6	>4000	972	<5.0	<0.50	<0.2	2260	2480
	12/12/13	6.75	12.5	>4000	888	<5.0	<0.10	<0.04	2000	2090
	6/23/14	6.68	12.7	>4000	1070	<5.0	<0.10	<0.04	281	1600
	12/9/14	6.73	12.5	>4000	1020	<5.0	<0.20	0.90	1150	1330
	5/28/15	6.71	12.7	>4000	858	<5.0	<0.10	<0.40	1580	981
	11/16/15	6.69	12.4	>4000	588	<5.0	<0.05	0.09	933	548
	5/23/16	6.70	12.6	>4000	840	<1.0	<2.0	<2.0	1100	980
	11/15/16	6.70	12.7	>4000	620	<1.0	<2.0	<2.0	1350	1200
OW-2	9/18/02	7.05	14.8	>4000	1100	<1	13	<.84	5200	5300

TABLE 3 (continued)

Summary of Major Anion Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance[1]	Bicarbonate (mg/L)	Carbonate (mg/L)	Nitrate as N[3] (mg/L)	Nitrite as N[3] (mg/L)	Sulfate[3] (mg/L)	Chloride[3] (mg/L)
OW-2	12/16/02	7.09	14.0	>4000	1100	<1	5	<1.7	4700	5800
(cont)	6/30/03	7.28	12.9	>4000	NS	NS	16	<2.5	5300	4200
	12/30/03	7.23	13.3	>4000	1100	<1.2	16	<0.099	5200	4500
	6/30/04	6.86	13.0	>4000	960	<1.2	16	<0.25	5700	5000
	12/29/04	6.80	12.3	>4000	1000	<3.4	13	<0.04	5000	4300
	6/30/05	7.18	12.5	>4000	1100	<1.2	12	<0.25	5800	4500
	12/28/05	7.23	14.5	>4000	1000	<1.2	14		5600	5400
	6/29/06	7.22	12.9	>4000	970	<1.2	9	<0.25	5600	6100
	1/25/07	7.37	12.8	>4000	1210	<5.0	7.1	<1.9	4930	5000
	7/2/07	7.18	13.3	>4000	1190	<5.0	9	<1.0	5270	4790
	1/31/08	7.27	12.6	>4000	1200	<5.0	6.6	<.40	4640	4500
	6/24/08	7.18	12.1	>4000	1170	<5.0	4.26	<6.1	4400	5200
	12/29/08	7.13	14.0	>4000	950	<5.0	7.8	<15	4830	4940
	6/29/09	7.15	14.2	>4000	931	<5.0	7.2	<6.1	4900	5070
	12/15/09	7.11	13.0	>4000	930	<5.0	12.2	<1.5	6240	4230
	6/23/10	7.30	12.4	>4000	904	<5.0	6.4	<15.0	4960	5160
	12/13/10	7.14	13.6	>4000	930	<5.0	7.9	<15.0	6160	5750
	6/21/11	7.19	12.5	>4000	948	<5.0	5.7	<15.0	4740	4870
	12/21/11	7.21	12.5	>4000	986	<5.0	8.8	<6.1	5270	4740
	6/19/12	7.30	12.4	>4000	951	<5.0	4.3	<2.5	4730	4890
	12/17/12	7.34	13.2	>4000	950	<5.0	7.1	<1.0	5520	5060
	6/13/13	7.15	12.5	>4000	982	<5.0	5.9	<0.8	5170	4840
	12/12/13	7.35	13.8	>4000	944	<5.0	9.5	<0.08	5500	4320
	6/23/14	7.10	12.5	>4000	937	<5.0	7.9	<0.20	4700	4000
	12/9/14	7.21	12.2	>4000	1060	<5.0	3.6	1.600	4460	2690
	5/28/15	7.15	12.4	>4000	1040	<5.0	8.1	<2.0	5140	3740
	11/16/15	7.2	12.3	>4000	992	<5.0	7.7	<2.0	5290	3370
	5/23/16	7.17	12.4	>4000	720	<1.0	5.0	<2.0	4000	2640
	11/15/16	7.19	12.3	>4000	980	<1.0	3.4	<2.0	6300	3240
OW-3	9/18/02	6.88	15.4	>4000	NS	NS	NS	NS	NS	NS

TABLE 3 (continued)

Summary of Major Anion Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance[1]	Bicarbonate (mg/L)	Carbonate (mg/L)	Nitrate as N[3] (mg/L)	Nitrite as N[3] (mg/L)	Sulfate[3] (mg/L)	Chloride[3] (mg/L)
OW-3	12/16/02	7.08	15.3	>4000	1100	<1	<1.8	<1.7	8400	3800
(Cont.)	6/30/03	7.13	14.6	>4000	NS	NS	2.0J	<2.5	6100	3800
	12/30/03	7.27	13.4	>4000	1200	<1.2	0.24	<0.099	6300	1200
	6/30/04	6.89	12.4	>4000	920	<1.2	0.20	<0.025	5400	4900
	12/29/04	6.65	12.3	>4000	1100	<3.4	<0.07	<0.07	6700	3200
	6/30/05	6.90	12.5	>4000	1100	<1.2	<0.28	<0.25	8000	3800
	12/28/05	7.12	15.2	>4000	1100	<1.2	6.2	11.000	6800	3800
	6/29/06	6.54	13.5	>4000	1100	<1.2	2.7	<0.25	680	4800
	1/25/07	7.47	12.7	>4000	1100	<5.0	<1.4	<1.9	5900	4750
	7/2/07	6.9	13.7	>4000	NA	NA	NA	NA	NA	NA
	1/31/08	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/24/08	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/05/09	7.05	14.0	>4000	1200	<5.0	4.3	1.900	6100	4390
	6/29/09	7.15	14.1	>4000	919	<5.0	7.4	<6.1	5010	4970
	12/15/09	7.17	13.0	>4000	920	<5.0	6.2	<1.5	4740	5050
	6/23/10	7.35	12.3	>4000	960	<5.0	8.0	<6.1	5960	3920
	12/13/10	7.05	13.2	>4000	960	<5.0	9.5	<15.0	5960	4690
	6/21/11	7.19	12.3	>4000	973	<5.0	4.0	<15.0	5100	3490
	12/21/11	7.20	12.0	>4000	988	<5.0	4.1	<6.1	5620	3650
	6/19/12	7.40	13.3	>4000	959	<5.0	8.8	<2.5	5690	3560
	12/17/12	7.33	13.5	>4000	1030	<5.0	0.57	0.210	5810	3440
	6/13/13	7.20	12.3	>4000	973	<5.0	11.2	1.100	5820	3490
	12/12/13	7.03	13.3	>4000	908	<5.0	0.7	0.090	4550	2770
	6/23/14	7.19	12.4	>4000	919	<5.0	9.6	2.900	4990	2960
	12/9/14	7.07	12.2	>4000	994	<5.0	9.8	<.20	5520	3860
	5/28/15	7.10	12.3	>4000	950	<5.0	0.41	<.80	4250	2560
	11/16/15	7.11	12.4	>4000	885	<5.0	0.95	<2.0	3970	2200
	5/23/16	7.08	12.2	>4000	960	<1.0	7.5	<2.0	2800	2160
	11/15/16	7.11	12.4	>4000	860	<1.0	<2.0	<2.0	4200	2160
OW-4	12/15/09	7.14	12.9	>4000	276	<5.0	89.3	<1.5	6450	4350

TABLE 3 (continued)

Summary of Major Anion Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance[1]	Bicarbonate (mg/L)	Carbonate (mg/L)	Nitrate as N[3] (mg/L)	Nitrite as N[3] (mg/L)	Sulfate[3] (mg/L)	Chloride[3] (mg/L)
OW-4	6/23/10	7.17	13.5	>4000	257	<5.0	80.2	<6.1	6650	3580
(Cont.)	12/13/10	7.18	13.1	>4000	300	<5.0	69.1	<15.0	7880	3840
	6/21/11	7.23	12.2	>4000	262	<5.0	71.0	<15.0	6880	3690
	12/21/11	7.12	11.7	>4000	322	<5.0	69.9	<6.1	7210	3430
	6/19/12	7.41	14.0	>4000	261	<5.0	87.5	<2.5	6990	3920
	12/17/12	7.33	12.7	>4000	262	<5.0	78.7	<0.08	7390	3780
	6/13/13	7.25	12.3	>4000	248	<5.0	97.0	<0.8	6980	4120
	12/12/13	7.29	12.9	>4000	348	<5.0	49.3	<0.08	7560	2810
	6/23/14	7.21	12.4	>4000	284	<5.0	75.4	<0.20	6920	3270
	12/9/14	7.28	12.4	>4000	306	<5.0	71.3	1.100	7410	3250
	5/28/15	7.28	12.3	>4000	1180	<5.0	2.0	<.40	2070	1000
	11/16/15	7.29	12.3	>4000	844	<5.0	18.6	0.370	5530	1730
	5/23/16	7.27	12.4	>4000	600	<1.0	30.0	<2..0	5700	2040
	11/15/16	7.10	12.8	>4000	760	<1.0	12.0	<2.0	4500	1800

1 Specific conductance in micro-siemens at 25 degrees Celsius.
2 By Method 310.1.
3 By Method 300.
J Analyte was detected above the Reporting Limit but below the Quantitation Limit.

mg/L milligrams per liter.
NS No sample.

ATTACHMENT I

Test Report

eANALYTICS

LABORATORY

November 28, 2016

Client:	K.P. Kauffman Company
Project:	Wattenberg
Lab ID:	6103
Date Samples Received:	11/15/2016
Number of Samples:	4
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Samples arrived within the acceptable temperature range as specified in the test method

Comments:

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eANALYTICS LABORATORY

CHAIN OF CUSTODY

6103

APEX CONSULTING SERVICES, INC.
BOX 369, LOUISVILLE, CO 80027-0369
303-665-1400

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: K.P. Kaufman Company, Inc.
Address: 1675 Broadway, Suite 2800
City: Denver | State: CO | Zip: 80202-4628
Project Contact: Susana Lara-Mesa | SLaraMesa@kpk.com
Phone #: 303-825-4622
Samplers's Name: MICHAEL HATTEL (303-665-1400)

Project Information

Project Name: WATTENBERG TANK
Street:
City: Fort Lupton | State: CO
Project #:
Fax #:
Client Purchase Order #: 7591

Accutest Sample #	Field ID / Point of Collection	SUMMA # MEOH Vial #	Collection Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles (DI, NaOH, EDA, H2SO4, HCL, NaHSO4, MEOH, NaCO3)	OIL & GREASE 1664	ANIONS (NITRATE, NITRITE, SULFATE, CHLORIDE)	BTEX (8021)	CATIONS (Ca, K, Mg, NA)	Alkalinity (Carb/BiCarb)	TDS	TOC	LAB USE ONLY
1	OW-1		12/15/16	700	MDH	LIQ	4	H2SO4	X	X	X	X	X	X	X	
2	OW-2			945	MDH	LIQ	4	H2SO4	X	X	X	X	X	X	X	
3	OW-3			945	MDH	LIQ	4	H2SO4	X	X	X	X	X	X	X	
4	OW-4			1045	MDH	LIQ	4	H2SO4	X	X	X	X	X	X	X	
									X	X	X	X	X	X	X	

Requested Analysis

Matrix Codes: DW- Drinking Water; GW- Ground Water; WW- Water; SW- Surface Water; SO- Soil; SL-Sludge; OI-Oil; LIQ- Other Liquid; AIR- Air; SOL-Other Solid; WP-Wipe

Turnaround Time (Business days)

[X] Std.
Approved By/ Date:

Data Deliverable Information

[ ] Commercial "A"
[ ] Commercial "B"
[ ] NJ Reduced
[ ] NJ Full
[X] Hard Copy
[ ] FULL CLP
[ ] NYASP Category A
[ ] NYASP Category B
[ ] State Forms
[X] PDF

Comments / Remarks

Full QA/QC Package Needed for Report
PDF copy to Susan Lara-Mesa at Slaramesa@kpk.com
PDF copy to Mike Hattel with APEX at mhattel@msn.com

Emergency T/A data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date:	Received By:	Date Time:
	12/15/16	Andy Crow	12/15/16 1223
Relinquished by: Andy Crow	Date Time: 12/15/16 1224	Received By: Todd Rhea	Date Time: 12/15/16 1229
Relinquished by:	Date Time:	Received By:	Custody Seal # / Preserved where applicable / On Ice / Cooler Temp.

Water
Sample Analysis

November 28, 2016

eANALYTICS
LABORATORY

Client: K.P. Kauffman Company

Lab ID: 6103

Project: Wattenberg

Analysis: Volatile Organics

Method: EPA8260

Sample Name	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	Date Sampled	Date Analyzed	Lab ID	
OW-1	<0.001	<0.001	<0.001	<0.001	11/15/16	11/17/16	6103	1
OW-2	<0.001	<0.001	<0.001	<0.001	11/15/16	11/17/16	6103	2
OW-3	<0.001	<0.001	<0.001	<0.001	11/15/16	11/17/16	6103	3
OW-4	<0.001	<0.001	<0.001	<0.001	11/15/16	11/17/16	6103	4

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6103
Project:	Wattenberg		
Analysis:	Oil & Grease	Method:	EPA1664m/9071Bm

Sample Name	Oil & Grease mg/L	Date Sampled	Date Analyzed	Lab ID	
OW-1	<10.0	11/15/16	11/22/16	6103	1
OW-2	<10.0	11/15/16	11/22/16	6103	2
OW-3	<10.0	11/15/16	11/22/16	6103	3
OW-4	<10.0	11/15/16	11/22/16	6103	4

Matrix
Sample Analysis

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6103
Project:	Wattenberg		
Analysis:	Anions	Method:	EPA300.0

Sample Name	Nitrate mg/L	Nitrite mg/L	Sulfate mg/L	Chloride mg/L	Date Sampled	Date Analyzed	Lab ID	
OW-1	<2.0	<2.0	1350	1200	11/15/16	11/15/16	6103	1
OW-2	3.4	<2.0	6300	3240	11/15/16	11/15/16	6103	2
OW-3	<2.0	<2.0	4200	2160	11/15/16	11/15/16	6103	3
OW-4	12	<2.0	4500	1800	11/15/16	11/15/16	6103	4

Water
Sample Analysis

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6103
Project:	Wattenberg		
Analysis:	Total Dissolved Solids	Method:	EPA160.1
	Total Organic Carbon		EPA415.1
	Total Alkalinity		SM2320B

Sample Name	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	Total Alkalinity mg/L	Date Sampled	Date Analyzed	Lab ID	
OW-1	5010	74.5	620	11/15/16	05/24/16	6103	1
OW-2	15250	24.6	980	11/15/16	05/24/16	6103	2
OW-3	10940	9.7	860	11/15/16	05/24/16	6103	3
OW-4	9690	15.6	760	11/15/16	05/24/16	6103	4

Water
Sample Analysis

eANALYTICS
LABORATORY

Client: K.P. Kauffman Company

Lab ID: 6103

Project: Wattenberg

Analysis: Total Metals

Method: EPA6010

Sample Name	Ca-Calcium mg/L	K-Potassium mg/L	Mg-Magnesium mg/L	Na-Sodium mg/L	Date Sampled	Date Analyzed	Lab ID	
OW-1	172	15.3	141	1289	11/15/16	11/22/16	6103	1
OW-2	493	19.0	544	3442	11/15/16	11/22/16	6103	2
OW-3	413	28.2	402	2490	11/15/16	11/22/16	6103	3
OW-4	295	17.4	254	2526	11/15/16	11/22/16	6103	4

Water
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client: K.P. Kauffman Company

Lab ID: 6103

Project: Wattenberg

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID	
OW-1	102	87	108	92	11/15/16	11/17/16	6103	1
OW-2	94	83	99	87	11/15/16	11/17/16	6103	2
OW-3	99	89	104	90	11/15/16	11/17/16	6103	3
OW-4	95	83	104	95	11/15/16	11/17/16	6103	4

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6103
Project:	Wattenberg		
Analysis:	Volatile Organics	Method:	EPA8260

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	Date Analyzed	Lab ID
Laboratory Control Sample	112	109	108	110	11/17/16	LCS 6103 1
(70-130%)						
Method Blank	<0.001	<0.001	<0.001	<0.001	11/17/16	MB 6103 1
	mg/L	mg/L	mg/L	mg/L		

eANALYTICS
LABORATORY

Client:	K.P. Kauffman Company	Lab ID:	6103
Project:	Wattenberg		
Analysis:	Total Metals	Method:	EPA6010

Sample Name	Ca-Calcium % Rec	K-Potassium % Rec	Mg-Magnesium % Rec	Na-Sodium % Rec	Date Analyzed		Lab ID	
Laboratory Control Sample	98	97	95	97	11/22/16	LCS	6103	1
(90-110%)								
Method Blank	<4.0	<1.0	<2.0	<8.0	11/22/16	MB	6103	1
	mg/L	mg/L	mg/L	mg/L				