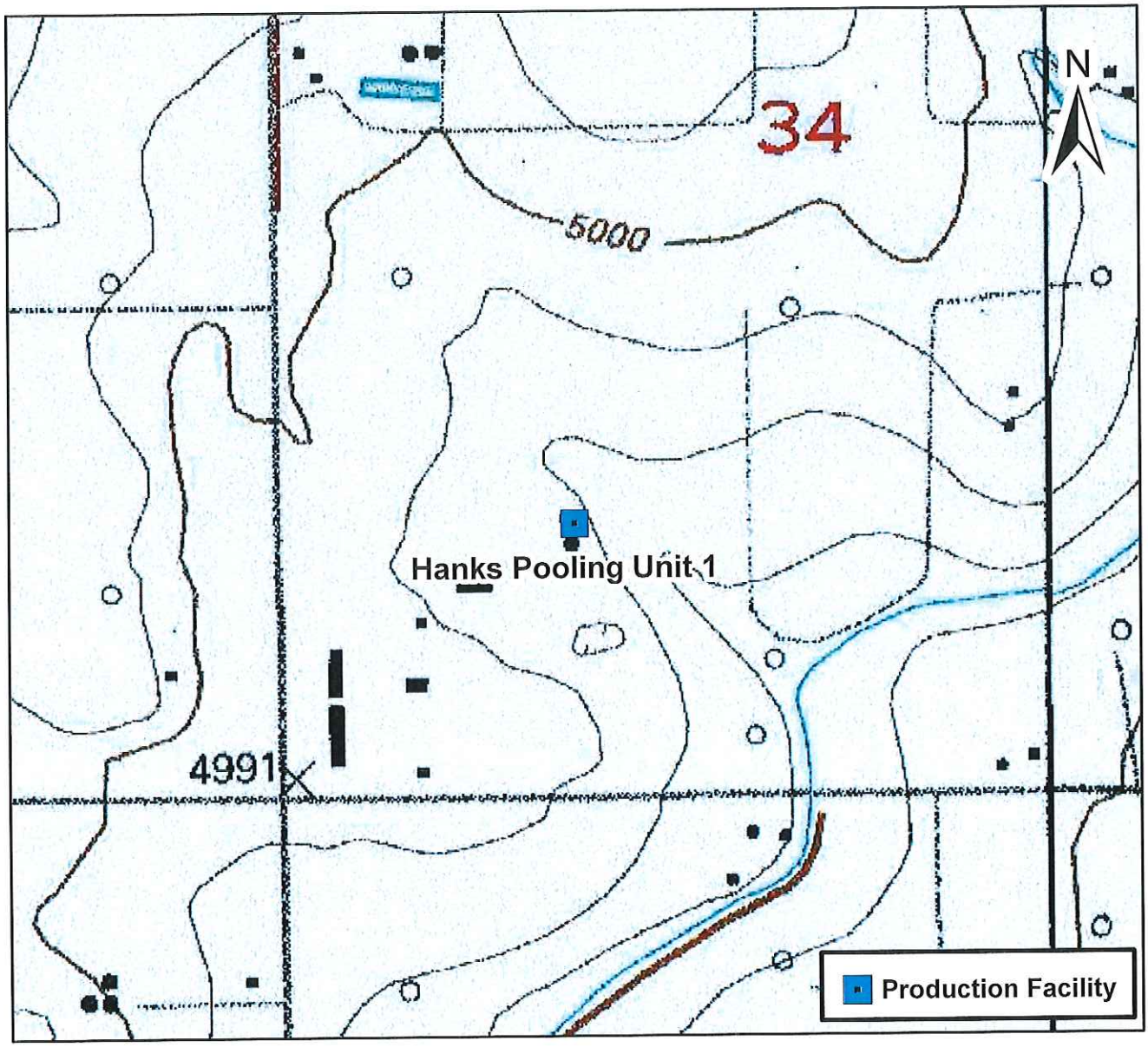
Received 09/10/2015
Project 9246
Document 200437171

FIGURES



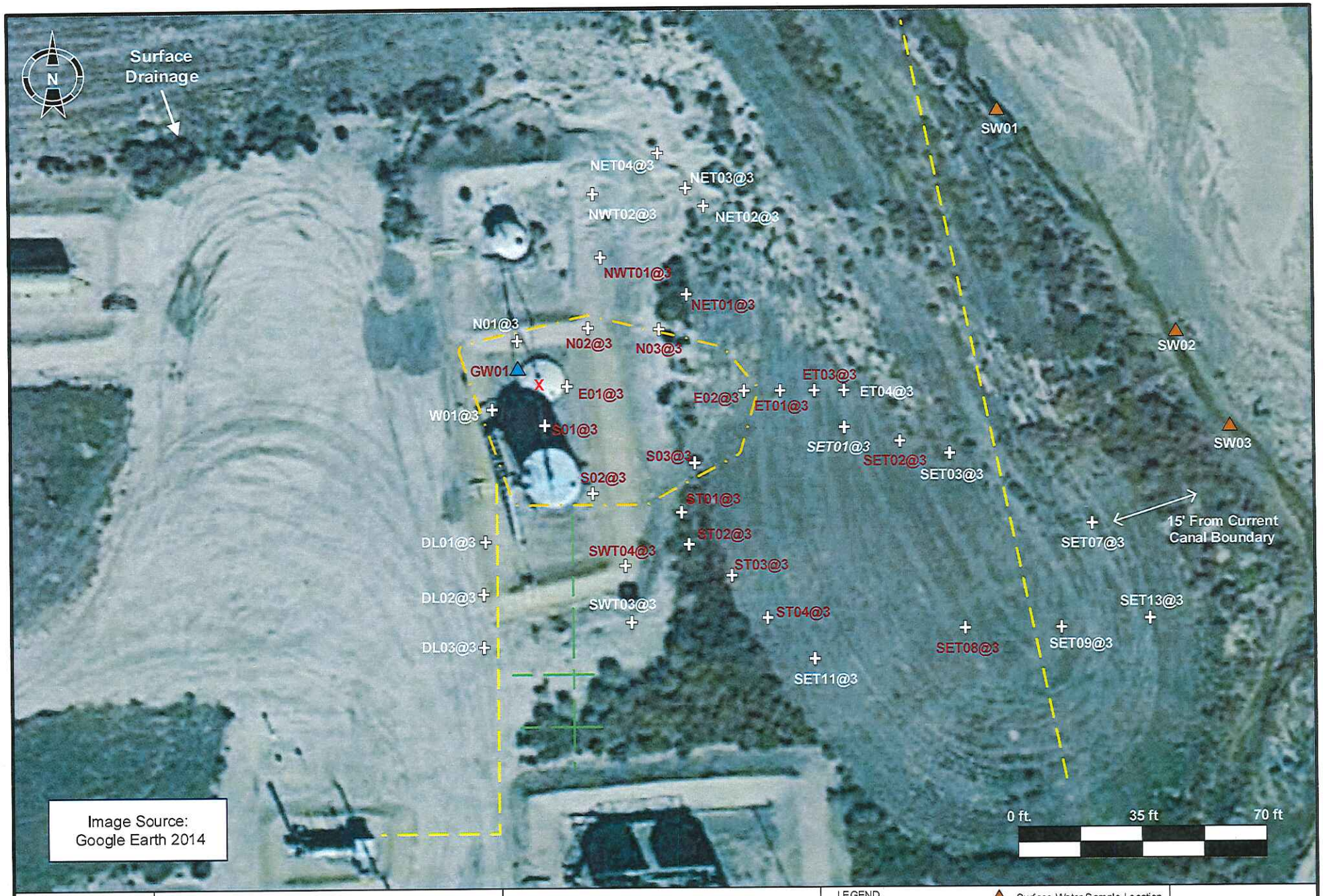
0 750 1,500 Feet

Figure 1

Site Location Map
Hanks Pooling Unit 1
SWSW S34 T2N R67W
Weld County, Colorado

Drawn By: DBA
Date: 04/17/2014

Tasman Geosciences



WORK ORDER #: 88527175 DRAWN BY: CAW DATE: 11/21/2014	Kerr-McGee Oil and Gas Onshore, LP Hanks Pooling Unit 1 SWSW S34 T2N R67W Weld County, CO	TASMAN GEOSCIENCES 6899 Pecos St., Unit C Denver, CO 80221	LEGEND Approximate Excavation Extent X Approximate Release Location Kerr-McGee Buried Lines Exposed KPK Buried Lines Surface Water Sample Location Groundwater Sample Location Soil Sample Location S01 Indicates BTEX and/or TPH Concentrations Over Regulatory Standards	FIGURE 2 EXCAVATION AND SAMPLE LOCATION MAP

ANALYTICAL TABLES

TABLE 1
HANKS POOLING UNIT 1
SOIL SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample ID	Date Sampled	Depth (Feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH - GRO (mg/kg)	TEPH - DRO + ORO (mg/kg)
COGCC standards for soil (mg/kg) [1]			0.17	85	100	175	500	
N01@3'	4/10/2014	3	<0.01	<0.01	0.295	2.15	217	55.1
S01@3'	4/10/2014	3	**0.482**	<0.01	1.86	16.1	**479**	**122**
E01@3'	4/10/2014	3	**0.397**	<0.01	1.63	0.535	248	128
W01@3'	4/10/2014	3	<0.01	<0.01	<0.01	0.145	97.7	<50
DL01@3'	4/10/2014	3	0.072	<0.01	0.022	0.386	<50	<50
DL02@3'	4/10/2014	3	<0.01	<0.01	<0.01	<0.01	<50	<50
DL03@3'	4/10/2014	3	<0.01	<0.01	<0.01	<0.01	<50	<50
S02@3'	4/18/2014	3	**0.879**	<0.01	4.44	34.9	**579**	**58.8**
S03@3'	4/18/2014	3	**0.208**	<0.01	2.49	25.5	**627**	**142**
N02@3'	4/18/2014	3	**6.64**	<0.01	20.0	206	**3,583**	**240**
N03@3'	4/18/2014	3	**0.250**	<0.01	4.51	63.2	**955**	**234**
E02@3'	4/18/2014	3	0.109	<0.01	2.88	44.9	**468**	**278**
NET01@3'	4/22/2014	3	<0.01	<0.01	5.80	51.2	**1,553**	**252**
NET02@3'	4/22/2014	3	<0.01	<0.01	<0.01	<0.01	<50	<50
NWT01@3'	4/22/2014	3	**0.840**	<0.01	1.09	27.3	**1,078**	**415**
NWT02@3'	4/22/2014	3	<0.01	<0.01	<0.01	0.028	<50	<50
ST01@3'	4/22/2014	3	<0.01	<0.01	0.441	1.05	**514**	**60.1**
ST02@3'	4/22/2014	3	**0.215**	<0.01	3.76	16.3	**5,083**	**63.6**
ET01@3'	4/22/2014	3	**0.742**	0.203	8.35	74.0	**3,758**	**706**
ST03@3'	4/24/2014	3	<0.01	<0.01	0.441	6.41	**1,004**	**767**
ST04@3'	4/24/2014	3	<0.01	<0.01	0.023	6.46	**2,402**	**760**
ET03@3'	4/24/2014	3	<0.01	<0.01	0.111	3.51	**284**	**721**
ET04@3'	4/24/2014	3	<0.01	<0.01	<0.01	0.015	<50	<50
NET03@3'	4/24/2014	3	<0.01	<0.01	<0.01	<0.01	<50	<50
NET04@4'	4/24/2014	3	<0.01	<0.01	<0.01	<0.01	<50	<50
SET02@3'	5/21/2014	3	**5.83**	0.110	13.4	146	**6,413**	**332**
SET03@3'	5/21/2014	3	0.016	<0.01	0.064	0.764	<50	<50
SET07@3'	5/21/2014	3	<0.01	<0.01	0.010	0.168	<50	<50
SET08@3'	5/21/2014	3	**1.43**	<0.01	18.8	145	**3,367**	**1,405**
SET09@3'	5/21/2014	3	<0.01	<0.01	0.063	0.887	<50	<50
SET11@3'	5/21/2014	3	<0.01	<0.01	<0.01	<0.01	<50	<50
SET13@3'	5/21/2014	3	<0.01	<0.01	<0.01	<0.01	<50	<50
SWT03@3'	5/21/2014	3	<0.01	<0.01	<0.01	<0.01	<50	<50
SWT04@3'	5/21/2014	3	**0.343**	<0.01	2.87	23.1	**1,217**	**107**

Notes:
1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.
COGCC = Colorado Oil and Gas Conservation Commission
(<) = Analytical results is less than the indicated laboratory reporting limit.
TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics
TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics
TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram.
bgs = Below ground surface.
BOLD = Analytical result is in exceedance of COGCC Table 910-1 soil standards.

TABLE 2
HANKS POOLING UNIT 1
GROUNDWATER SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water (feet bgs)
COGCC Table 910-1 Groundwater Standard (µg/L) [1]		5	560	700	1,400	
GW01	04/10/2014	**1,745**	8.7	330	**1,851**	~ 4

Notes:
1. Groundwater standards referenced from 2 CCR 404-1, Table 910-1, effective February 1, 2014.
COGCC = Colorado Oil and Gas Conservation Commission
µg/L = Micrograms per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
Bold = Analytical result is in exceedance of COGCC groundwater standards.

TABLE 3
HANKS POOLING UNIT 1
SURFACE WATER SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
CBSSW Standards (µg/L) [1]		2	560	700	1,400
SW01	4/18/2014	<1.0	<1.0	<1.0	<1.0
SW02	4/18/2014	<1.0	<1.0	<1.0	<1.0
SW03	4/18/2014	<1.0	<1.0	<1.0	<1.0

Notes:
1. CBSSW = Colorado Basic Standards for Surface Water, effective January 2013.
µg/L = Micrograms per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
BOLD= Analytical result is in exceedance of CBSSW standards.

LABORATORY ANALYTICAL REPORTS

Test Report

eANALYTICS
LABORATORY

April 10, 2014

Client:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling Unit 1
Lab ID:	1125
Date Samples Received:	4/10/2014
Number of Samples:	8
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eAnalytics Laboratory
1767 Rocky Mountain Avenue Loveland CO 80538

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

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION

(*New Clients please fill out completely)

Company: Tasman Geosciences / Anadarko

Project: Hanks Pooling Unit 1

Project Manager: Paul Schneider

Sampler: Jenna Barker

Phone/Email: 720-987-9717 / JBarker@Tasman-Geo.com

Address: 6899 Pecos Street, Unit C, Denver, CO 80221

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix(S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	N01@3	4/10/14 AM/PM	1	S		X	X					
2	S01@3	AM/PM	1	S		X	X					
3	E01@3	AM/PM	1	S		X	X					
4	W01@3	AM/PM	1	S		X	X					
5	PL01@3	AM/PM	1	S		X	X					
6	DL02@3	AM/PM	1	S		X	X					
7	DL03@3	AM/PM	1	S		X	X					
8	GW01	AM/PM	3	W	X							
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										

Comments: By 7am 4/11/14 Please

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- ○ Normal (5-10 Days)
- ○ 3 Day (1.25x)
- ○ 1 Day (2x)
- ○ Same Day (3x)
- X Next Bus. Morning (APC Pricing)

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

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: Date 4/10/14 Time AM/PM

Company: Tasman

Received by: Date Time AM/PM

Company:

Relinquished by: Date Time AM/PM

Company:

Received by: Allen Wadad Date 4/10/14 Time 2:00 AM/PM

Company: eANALYTICS

WO# 88527175 eANALYTICS: Environmental testing made Easy Page ___ of ___

1125

Test Report

Soil
Sample Analysis

April 10, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1125
Project:	Hanks Pooling Unit 1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	TPH ORO C28-C36 mg/kg	Date Sampled	Date Analyzed	Lab ID	
N01 @ 3	< 0.01	< 0.01	**0.295**	**2.15**	**217**	**55.1**	< 50	04/10/14	04/10/14	1125	1
S01 @ 3	**0.482**	< 0.01	**1.86**	**16.1**	**479**	**122**	< 50	04/10/14	04/10/14	1125	2
E01 @ 3	**0.397**	< 0.01	**1.63**	**0.535**	**248**	**128**	< 50	04/10/14	04/10/14	1125	3
W01 @ 3	< 0.01	< 0.01	< 0.01	**0.145**	**97.7**	< 50	< 50	04/10/14	04/10/14	1125	4
DL01 @ 3	**0.072**	< 0.01	**0.022**	**0.386**	< 50	< 50	< 50	04/10/14	04/10/14	1125	5
DL02 @ 3	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/10/14	04/10/14	1125	6
DL03 @ 3	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/10/14	04/10/14	1125	7

Test Report

Water
Sample Analysis

April 10, 2014

eANALYTICS
LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1125
Project:	Hanks Pooling Unit 1		
Analysis:	Volatile Organics	Method:	EPA8260

Sample Name	Benzene ug/L	Toluene ug/L	Ethyl-benzene ug/L	Total Xylenes ug/L	Date Sampled	Date Analyzed	Lab ID
GW01	**1745**	**8.7**	**330**	**1851**	04/10/14	04/10/14	1125 8

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1125
Project:	Hanks Pooling Unit 1	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
N01 @ 3	87	93	107	108	04/10/14	04/10/14	1125 1
S01 @ 3	110	92	96	97	04/10/14	04/10/14	1125 2
E01 @ 3	102	109	108	104	04/10/14	04/10/14	1125 3
W01 @ 3	88	90	89	107	04/10/14	04/10/14	1125 4
DL01 @ 3	94	89	88	102	04/10/14	04/10/14	1125 5
DL02 @ 3	94	100	111	97	04/10/14	04/10/14	1125 6
DL03 @ 3	102	102	101	106	04/10/14	04/10/14	1125 7

Water
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1125
Project:	Hanks Pooling Unit 1	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
GW01	106	94	104	100	04/10/14	04/10/14	1125 8

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1125
Project:	Hanks Pooling Unit 1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	TPH GRO C6-C10 % Rec	TPH DRO C10-C28 % Rec	TPH ORO C28-C36 % Rec	Date Analyzed	Lab ID
Laboratory Control Sample	96	103	91	92	91	95	104	04/10/14	LCS 1125 1
(70-130%)									
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/10/14	MB 1125 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		

Water
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1125
Project:	Hanks Pooling Unit 1		
Analysis:	Volatile Organics	Method:	EPA8260

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	Date Analyzed	Lab ID
Laboratory Control Sample	92	91	101	98	04/10/14	LCS 1125 1
(70-130%)						
Method Blank	< 1.0	< 1.0	< 1.0	< 1.0	04/10/14	MB 1125 1
	ug/L	ug/L	ug/L	ug/L		

Test Report

eANALYTICS
LABORATORY

April 20, 2014

Client:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling U1
Lab ID:	1203
Date Samples Received:	4/18/2014
Number of Samples:	8
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION

(*New Clients please fill out completely)

Company: Tasman Geosciences / Anadarko

Project: Hanks Pooling U 1

Project Manager: Paul Schneider

Sampler: Jenna Barker

Phone/Email: 720-987-9717 / JBarker@Tasman-Geo.com

Address: 6899 Pecos Street, Unit C

Denver, CO 80221

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix(S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	S02 @ 3	4/18/14 AM/PM	1	S		X	X					
2	S03 @ 3	AM/PM	1	S		X	X					
3	N02 @ 3	AM/PM	1	S		X	X					
4	N03 @ 3	AM/PM	1	S		X	X					
5	E02 @ 3	AM/PM	1	S		X	X					
6	SW01	AM/PM	3	W	X							
7	SW02	AM/PM	3	W	X							
8	SW03	AM/PM	3	W	X							
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										

Comments: By 7am ~~8/28/14~~ 8/21/14 Please

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- ○ Normal (5-10 Days)
- ○ 3 Day (1.25x)
- ○ 1 Day (2x)
- ○ Same Day (3x)
- X Next Bus. Morning (APC Pricing)

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

Record of Custody

Relinquished by: Date Time AM/PM

Company:

Received by: Date Time AM/PM

Company:

Relinquished by: Date Time AM/PM

Company:

Received by: Date 4-18-14 Time 5 05 AM/PM

Company: eANALYTICS

For eANALYTICS Use

Samples Received Intact (Yes) / No

Received Within Temperature Range (2-6°C) (Yes) / No

Sample Preservative (Ice) None Acid Other

1203

WO # 8827175

eANALYTICS: Environmental testing made Easy

Page 1 of 1

Test Report

Soil
Sample Analysis

April 20, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1203
Project:	Hanks Pooling U1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	TPH ORO C28-C36 mg/kg	Date Sampled	Date Analyzed	Lab ID
S02 @ 3	**0.879**	< 0.01	**4.44**	**34.9**	**579**	**58.8**	< 50	04/18/14	04/18/14	1203 1
S03 @ 3	**0.208**	< 0.01	**2.49**	**25.5**	**627**	**142**	< 50	04/18/14	04/18/14	1203 2
N02 @ 3	**6.64**	< 0.01	**20.0**	**206**	**3583**	**240**	< 50	04/18/14	04/18/14	1203 3
N03 @ 3	**0.250**	< 0.01	**4.51**	**63.2**	**955**	**234**	< 50	04/18/14	04/18/14	1203 4
E02 @ 3	**0.109**	< 0.01	**2.88**	**44.9**	**468**	**278**	< 50	04/18/14	04/18/14	1203 5

Test Report

Water
Sample Analysis

April 20, 2014

eANALYTICS
LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1203
Project:	Hanks Pooling U1		
Analysis:	Volatile Organics	Method:	EPA8260

Sample Name	Benzene ug/L	Toluene ug/L	Ethyl-benzene ug/L	Total Xylenes ug/L	Date Sampled	Date Analyzed	Lab ID
SW01	< 1.0	< 1.0	< 1.0	< 1.0	04/18/14	04/18/14	1203 6
SW02	< 1.0	< 1.0	< 1.0	< 1.0	04/18/14	04/18/14	1203 7
SW03	< 1.0	< 1.0	< 1.0	< 1.0	04/18/14	04/18/14	1203 8

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1203

Project: Hanks Pooling U1

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID	
S02 @ 3	108	89	105	103	04/18/14	04/18/14	1203	1
S03 @ 3	99	103	104	97	04/18/14	04/18/14	1203	2
N02 @ 3	107	110	98	95	04/18/14	04/18/14	1203	3
N03 @ 3	106	91	105	99	04/18/14	04/18/14	1203	4
E02 @ 3	88	91	106	104	04/18/14	04/18/14	1203	5

Water
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1203

Project: Hanks Pooling U1

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SW01	101	89	98	90	04/18/14	04/18/14	1203 6
SW02	98	109	91	90	04/18/14	04/18/14	1203 7
SW03	96	106	102	96	04/18/14	04/18/14	1203 8

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1203
Project:	Hanks Pooling U1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	TPH GRO C6-C10 % Rec	TPH DRO C10-C28 % Rec	TPH ORO C28-C36 % Rec	Date Analyzed		Lab ID
Laboratory Control Sample	96	97	104	101	101	102	93	04/18/14	LCS	1203 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/18/14	MB	1203 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

Water
Quality Control - Analyses

April 20, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1203
Project:	Hanks Pooling U1		
Analysis:	Volatile Organics	Method:	EPA8260

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	Date Analyzed	Lab ID
Laboratory Control Sample	91	103	98	90	04/18/14	LCS 1203 1
(70-130%)						
Method Blank	< 1.0	< 1.0	< 1.0	< 1.0	04/18/14	MB 1203 1
	ug/L	ug/L	ug/L	ug/L		

eAnalytics Laboratory
1767 Rocky Mountain Avenue Loveland CO 80538

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

Test Report

eANALYTICS
LABORATORY

April 30, 2014

Client:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling U#1
Lab ID:	1223
Date Samples Received:	4/22/2014
Number of Samples:	7
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eAnalytics Laboratory
1767 Rocky Mountain Avenue Loveland CO 80538

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

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue | Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION

(New Clients please fill out completely)

Company: Tasman Geosciences / Anadarko

Project: Hanks Pooling U #1

Project Manager: Paul Schneider

Sampler: Jenna Barker

Phone/Email: 720-987-9717 / JBarker@Tasman-Geo.com

Address: 6899 Pecos Street, Unit C

Denver, CO 80221

ANALYSIS INFORMATION

(Select analysis by checking box at corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S-Soil, SW-Water, W-Wipe, O-Other)	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 200)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	NETOL@3 - Hold	4/22/14	1	S		X	X					
2	NETOL@3 - Hold		1	S		X	X					
3	STOL@3 - Hold		1	S		X	X					
4	STOL@3 - Hold		1	S		X	X					
5	NWTOL@3 - Hold		1	S		X	X					
10	NWTOL@3 - Hold - Run per Jenna B 4/22/14 CB		1	S		X	X					
7	ETOL@3 - Hold		1	S		X	X					

Run per Jenna B 4-28-14 (CB)

Comments:

By 7am 4/23/14 Please

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- O Normal (5-10 Days)
- O 3 Day (1.25x)
- O 1 Day (2x)
- O Same Day (3x)
- X Next Bus. Morning (APC Pricing)

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

Record of Custody

Relinquished by: [signature] Date 4/22/14

Company: Tasman Geo

Received by: Time

Company: Title

Relinquished by: Date

Company: Time

Received by: Alyn Wendel Date 4/22/14

Company: eANALYTICS Time 1080

For eANALYTICS Use

Samples Received Intact: Yes No

Received Within Temperature Range (2-6°C): Yes No

Sample Preservative: Ice Acid None Other

WO# 1223 eANALYTICS: Environmental testing made Easy Page ___ of ___

Test Report

Soil
Sample Analysis

April 30, 2014

eANALYTICS
LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1223
Project:	Hanks Pooling U#1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	TPH ORO C28-C36 mg/kg	Date Sampled	Date Analyzed	Lab ID	
NET01 @ 3	< 0.01	< 0.01	**5.80**	**51.2**	**1553**	**252**	< 50	04/22/14	04/29/14	1223	1
NET02 @ 3	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/22/14	04/29/14	1223	2
ST01 @ 3	< 0.01	< 0.01	**0.441**	**1.05**	**514**	**60.1**	< 50	04/22/14	04/29/14	1223	3
ST02 @ 3	**0.215**	< 0.01	**3.76**	**16.3**	**5083**	**63.6**	< 50	04/22/14	04/29/14	1223	4
NWT01 @ 3	**0.840**	< 0.01	**1.09**	**27.3**	**1078**	**415**	< 50	04/22/14	04/29/14	1223	5

Soil
Quality Control - Surrogate Recoveries

April 30, 2014

eANALYTICS LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1223

Project: Hanks Pooling U#1

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
NET01 @ 3	105	99	86	109	04/22/14	04/29/14	1223 1
NET02 @ 3	98	105	93	90	04/22/14	04/29/14	1223 2
ST01 @ 3	89	101	110	97	04/22/14	04/29/14	1223 3
ST02 @ 3	101	96	108	89	04/22/14	04/29/14	1223 4
NWT01 @ 3	86	106	93	92	04/22/14	04/29/14	1223 5

Test Report

Soil
Quality Control - Analyses

April 30, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1223
Project:	Hanks Pooling U#1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	TPH GRO C6-C10 % Rec	TPH DRO C10-C28 % Rec	TPH ORO C28-C36 % Rec	Date Analyzed	Lab ID
Laboratory Control Sample	99	102	100	98	93	104	94	04/29/14	LCS 1223 1
(70-130%)									
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/29/14	MB 1223 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		

Test Report

eANALYTICS
LABORATORY

April 23, 2014

Client:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling U#1
Lab ID:	1223
Date Samples Received:	4/22/2014
Number of Samples:	7
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eAnalytics Laboratory
1767 Rocky Mountain Avenue Loveland CO 80538

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

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

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CLIENT INFORMATION

(*New Clients please fill out completely)

Company: Tasman Geosciences / Anadarko

Project: Hanks Pooling U #1

Project Manager: Paul Schneider

Sampler: Jenna Barker

Phone/Email: 720-987-9717 / JBarker@Tasman-Geo.com

Address: 6899 Pecos Street, Unit C

Denver, CO 80221

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix: (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	NET01@3 - Hold	4/22/14 AM/PM	1	S		X	X					
2	NET02@3 - Hold	AM/PM	1	S		X	X					
3	ST01@3 - Hold	AM/PM	1	S		X	X					
4	ST02@3 - Hold	AM/PM	1	S		X	X					
5	NWT01@3 - Hold	AM/PM	1	S		X	X					
6	NWT02@3 - ~~Hold~~ Run per Jenna B 4/22/14 CD	AM/PM	1	S		X	X					
7	ET01@3 - Hold	AM/PM	1	S		X	X					
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										

Comments: By 7am 4/23/14 Please

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- ○ Normal (5-10 Days)
- ○ 3 Day (1.25x)
- ○ 1 Day (2x)
- ○ Same Day (3x)
- ☒ Next Bus. Morning (APC Pricing)

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

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 4/22/1

Company: Tasman Time AM/PM

Received by: Date

Company: Time AM/PM

Relinquished by: Date

Company: Time AM/PM

Received by: [signature] Date 4/22/14

Company: eANALYTICS Time 1630 AM/PM

WO # 1223 eANALYTICS: Environmental testing made Easy Page ___ of ___

Test Report

Soil
Sample Analysis

April 23, 2014

eANALYTICS
LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1223
Project:	Hanks Pooling U#1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	TPH ORO C28-C36 mg/kg	Date Sampled	Date Analyzed	Lab ID
NWT02 @ 3	< 0.01	< 0.01	< 0.01	**0.028**	< 50	< 50	< 50	04/22/14	04/22/14	1223 6

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1223
Project:	Hanks Pooling U#1	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
NWT02 @ 3	95	101	86	110	04/22/14	04/22/14	1223 6

Test Report

Soil
Quality Control - Analyses

April 23, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1223
Project:	Hanks Pooling U#1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	TPH GRO C6-C10 % Rec	TPH DRO C10-C28 % Rec	TPH ORO C28-C36 % Rec	Date Analyzed	Lab ID
Laboratory Control Sample	93	92	96	104	102	96	101	04/22/14	LCS 1223 1
(70-130%)									
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/22/14	MB 1223 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		

Test Report

eANALYTICS
LABORATORY

April 30, 2014

Client:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling U#1
Lab ID:	1223
Date Samples Received:	4/22/2014
Number of Samples:	7
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION

(New Clients please fill out completely)

Company: Tasman Geosciences / Anadarko

Project: Hanks Pooling U #1

Project Manager: Paul Schneider

Sampler: Jenna Barker

Phone/Email: 720-987-9717 / JBarker@Tasman-Geo.com

Address: 6899 Pecos Street, Unit C, Denver, CO 80221

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	NET01@3 - Hold	4/22/14	1	S		X	X					
2	NET02@3 - Hold		1	S		X	X					
3	STD1@3 - Hold		1	S		X	X					
4	STO2@3 - Hold		1	S		X	X					
5	NWTD1@3 - Hold		1	S		X	X					
10	NWTO1@3 - Hold - Run per Jenna B 4/22-14 CO		1	S		X	X					
7	ET01@3 - Hold	✓	1	S		X	X					

RUN PER JENNA B 4-28-14 CO

— ET01@3 Should've been run with others Todd R.

Comments: By 7am 4/23/14 Please

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- Normal (5-10 Days)
- 3 Day (1.25x)
- 1 Day (2x)
- Same Day (3x)
- Next Bus. Morning (APC Pricing)

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

Record of Custody

Relinquished by: Date 4/22/14

Company: Tasman

Received by: Date

Company: Time

Relinquished by: Date

Company: Time

Received by: Allen Wright Date 4/22/14

Company: eANALYTICS Time 10:30

For eANALYTICS Use

Samples Received Intact: Yes / No

Received Within Temperature Range (2-6°C): Yes / No

Sample Preservative: Ice / None / Acid / Other

WO# 1223 eANALYTICS: Environmental testing made Easy Page ___ of ___

Test Report

Soil
Sample Analysis

April 30, 2014

eANALYTICS
LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1223
Project:	Hanks Pooling U#1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	TPH ORO C28-C36 mg/kg	Date Sampled	Date Analyzed	Lab ID
ET01 @ 3	**0.742**	**0.203**	**8.35**	**74.0**	**3758**	**706**	< 50	04/22/14	04/30/14	1223 7

eAnalytics Laboratory
1767 Rocky Mountain Avenue Loveland CO 80538

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

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1223
Project:	Hanks Pooling U#1	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
ET01 @ 3	88	102	97	89	04/22/14	04/30/14	1223 7

Test Report

Soil
Quality Control - Analyses

April 30, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1223
Project:	Hanks Pooling U#1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	TPH GRO C6-C10 % Rec	TPH DRO C10-C28 % Rec	TPH ORO C28-C36 % Rec	Date Analyzed		Lab ID	
Laboratory Control Sample	90	89	96	104	102	104	102	04/30/14	LCS	1223	1
(70-130%)											
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/30/14	MB	1223	1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				

Test Report

eANALYTICS
LABORATORY

April 24, 2014

Client:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling
Lab ID:	1242
Date Samples Received:	4/24/2014
Number of Samples:	6
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

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CLIENT INFORMATION

(*New Clients please fill out completely)

Company: Tasman Geosciences / Anadarko

Project: Hanks Pooling

Project Manager: Paul Schneider

Sampler: Jenna Barker

Phone/Email: 720-987-9717 / JBarker@Tasman-Geo.com

Address: 6899 Pecos Street, Unit C

Denver, CO 80221

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix(S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	ST03 @ 3-Hold	4/24/14 AM/PM	1	S		X	X					
2	ST04 @ 3-Hold	AM/PM	1	S		X	X					
3	ET03 @ 3-Hold	AM/PM	1	S		X	X					
4	ET04 @ 3	AM/PM	1	S		X	X					
5	NET03 @ 3	AM/PM	1	S		X	X					
6	NET04 @ 3 - Hold	AM/PM	1	S		X	X					
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										

Comments: By 7am 4/25/14 Please

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- O Normal (5-10 Days)
- O 3 Day (1.25x)
- O 1 Day (2x)
- O Same Day (3x)
- X Next Bus. Morning (APC Pricing)

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

For eANALYTICS Use

Samples Received Intact (Yes) / No

eived Within Temperature Range (2-6°C) (Yes) / No

Sample Preservative (Ice) None Acid Other

Record of Custody

Relinquished by: Date 4/24/14

Company: Tasman Time AM/PM

Received by: Date

Company: Time AM/PM

Relinquished by: Date

Company: Time AM/PM

Received by: Date 4/24/14

Company: eANALYTICS Time 4:00 AM/PM

WO # 1242 eANALYTICS: Environmental testing made Easy Page 1 of 1

Test Report

Soil
Sample Analysis

April 24, 2014

eANALYTICS
LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1242
Project:	Hanks Pooling		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	TPH ORO C28-C36 mg/kg	Date Sampled	Date Analyzed	Lab ID
ET04 @ 3	< 0.01	< 0.01	< 0.01	**0.015**	< 50	< 50	< 50	04/24/14	04/24/14	1242 4
NET03 @ 3	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/24/14	04/24/14	1242 5

Test Report

April 24, 2014

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1242
Project:	Hanks Pooling	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
ET04 @ 3	107	107	107	105	04/24/14	04/24/14	1242 4
NET03 @ 3	100	97	93	94	04/24/14	04/24/14	1242 5

Test Report

Soil
Quality Control - Analyses

April 24, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1242
Project:	Hanks Pooling		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	TPH GRO C6-C10 % Rec	TPH DRO C10-C28 % Rec	TPH ORO C28-C36 % Rec	Date Analyzed	Lab ID
Laboratory Control Sample	97	91	102	94	103	100	100	04/24/14	LCS 1242 1
(70-130%)									
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/24/14	MB 1242 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		

Test Report

eANALYTICS
LABORATORY

April 29, 2014

Client:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling
Lab ID:	1242
Date Samples Received:	4/24/2014
Number of Samples:	6
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

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CLIENT INFORMATION

(Please Closest please fill out completely)

Company: Tasman Geosciences / Anadarko

Project: Hanks Pooling

Project Manager: Paul Schneider

Sampler: Jenna Barker

Phone/Email: 720-987-9717 / JBarker@Tasman-Geo.com

Address: 6899 Pecos Street, Unit C

Denver, CO 80221

ANALYSIS INFORMATION

(Select analysis by checking box in corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S/Soil, (W) water, (V) Vapor, (O) Other)	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 203B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	ST03@3-Hold	4/22/14	1	S		X	X					
2	ST04@3-Hold		1	S		X	X					
3	ET03@3-Hold		1	S		X	X					
4	ET04@3		1	S		X	X					
5	NET03@3		1	S		X	X					
6	NET04@3-Hold		1	S		X	X					

RUN PER JENNA B 4-28-14 (CD)

Comments: By 7am 4/25/14 Please

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- Normal (5-10 Days)
- 3 Day (1.25x)
- 1 Day (2x)
- Same Day (3x)
- Next Bus. Morning (APC Pricing)

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

Record of Custody

Relinquished by: Date 4/24/14 Time

Company: Tasman

Received by: Date Time

Company

Relinquished by: Date Time

Company

Received by: Date 4/24/14 Time 4:00

Company: eANALYTICS

For eANALYTICS Use

Samples Received Intact: Yes / No

Received Within Temperature Range (2-6°C): Yes / No

Sample Preservative: Ice / None / Acid / Other

WO # 1242 eANALYTICS: Environmental testing made Easy Page 1 of 1

Test Report

Soil
Sample Analysis

April 29, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1242
Project:	Hanks Pooling		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	TPH ORO C28-C36 mg/kg	Date Sampled	Date Analyzed	Lab ID
ST03 @ 3	< 0.01	< 0.01	**0.441**	**6.41**	**1004**	**767**	< 50	04/24/14	04/29/14	1242 1
ST04 @ 3	< 0.01	< 0.01	**0.023**	**6.46**	**2402**	**760**	< 50	04/24/14	04/29/14	1242 2
ET03 @ 3	< 0.01	< 0.01	**0.111**	**3.51**	**284**	**721**	< 50	04/24/14	04/29/14	1242 3
NET04 @ 3	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/24/14	04/29/14	1242 6

Soil
Quality Control - Surrogate Recoveries

April 29, 2014

eANALYTICS LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1242

Project: Hanks Pooling

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
ST03 @ 3	99	104	100	109	04/24/14	04/29/14	1242 1
ST04 @ 3	100	90	111	100	04/24/14	04/29/14	1242 2
ET03 @ 3	90	100	109	89	04/24/14	04/29/14	1242 3
NET04 @ 3	106	89	88	99	04/24/14	04/29/14	1242 6

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1242
Project:	Hanks Pooling		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	TPH GRO C6-C10 % Rec	TPH DRO C10-C28 % Rec	TPH ORO C28-C36 % Rec	Date Analyzed		Lab ID	
Laboratory Control Sample	99	102	100	98	93	104	94	04/29/14	LCS	1242	1
(70-130%)											
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	04/29/14	MB	1242	1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				

eAnalytics Laboratory
1767 Rocky Mountain Avenue Loveland CO 80538

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

Test Report

eANALYTICS
LABORATORY

May 22, 2014

Client:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling Unit 1
Lab ID:	1432
Date Samples Received:	5/21/2014
Number of Samples:	17
Sample Condition:	Samples arrived intact and in appropriate sample containers
Sample Temperature:	Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION (*New Clients please fill out completely)

Company: Tasman Geosciences / Anadarko

Project: Harris Pooling Unit 1

Project Manager: Paul Schneider / Phil Hamlin

Sampler: Christine Wasko

Phone/Email: 720-409-8791 / cwasko@tasman-geo.com

Address: 6899 Pecos Street, Unit C, Denver, CO 80221

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

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix(S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis: PSL Calistine w/ 5/22-14 (CO) Run BTEX/TPH-Leo 10/03/2014
1	SET01@3'	5/21/14 820 AM/PM	1	S		X	X					
2	SET02@3'	835 AM/PM										X
3	SET03@3'	840 AM/PM										X
4	SET04@3'	845 AM/PM										
5	SET05@3'	850 AM/PM										
6	SET06@3'	855 AM/PM									HOLD ALL SAMPLES	
7	SET07@3'	900 AM/PM										X
8	SET08@3'	905 AM/PM										X
9	SET09@3'	910 AM/PM										X
10	SET10@3'	915 AM/PM										
11	SET11@3	920 AM/PM										X
12	SET12@3	925 AM/PM										
13	SET13@3'	930 AM/PM										X
14	SWT01@3'	930 AM/PM										
15	SWT02@3'	935 AM/PM										

Comments:

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- O Normal (5-10 Days)
- O 3 Day (1.25x)
- O 1 Day (2x)
- O Same Day (3x)
- O Next Bus. Morning (APC Pricing)

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

Record of Custody

Relinquished by: [signature] Date 5/21/14 Time 1430 AM/PM
Company: Tasman
Received by: Date Time AM/PM
Company:
Relinquished by: Date Time AM/PM
Company:
Received by: [signature] Date 5/21/14 Time 1430 AM/PM
Company: eANALYTICS

For eANALYTICS Use

Samples Received Intact: Yes No

Received Within Temperature Range (2-6°C): Yes No

Sample Preservative: Ice Acid None Other

WO # 88527975 1432

eANALYTICS: Environmental testing made Easy

Page 1 of 2

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION
(*New Clients please fill out completely)

Company:	Tasman Geosciences / Anadarko
Project:	Hanks Pooling Unit 1
Project Manager:	Paul Schneider / Phil Hamlin
Sampler:	Christine Wasko
Phone/Email:	720-409-8791 / cwasko@tasman-geo.com
Address:	6899 Pecos Street, Unit C Denver, CO 80221

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

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix: (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/ORO (EPA 8015)	TPH-GRO/DRO/ORO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis: 522-12 Co Bas Per Gas State W BTEX/MTBE/NAPHTHALENE/1,2,4 TMB
16	SWT03 @ 3'	5/21/14 940 AM/PM	1	S		X	X		HOLD SAMPLES			X
17	SWT14 @ 3	↓ 945 AM/PM	↓	↓		↓	↓					X
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
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		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										
		AM/PM										

Comments:

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- O Normal (5-10 Days)
- O 3 Day (1.25x)
- O 1 Day (2x)
- O Same Day (3x)
- O Next Bus. Morning (APC Pricing)

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

Record of Custody

Relinquished by:	CS	Date 5/21/14
Company:	Tasman	Time 1530 AM/PM
Received by:		Date
Company:		Time AM/PM
Relinquished by:		Date
Company:		Time AM/PM
Received by:	PH	Date 5/21/14
Company:	eANALYTICS	Time 1920 AM/PM

For eANALYTICS Use

Samples Received Intact: (Yes) / No

Received Within Temperature Range (2-6°C): (Yes) / No

Sample Preservative: (Ice) None Acid Other

WO # 1404103

eANALYTICS: Environmental testing made Easy

Page 2 of 2

Test Report

Soil
Sample Analysis

May 22, 2014

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1432
Project:	Hanks Pooling Unit 1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPH GRO C6-C10 mg/kg	TPH DRO C10-C28 mg/kg	TPH ORO C28-C36 mg/kg	Date Sampled	Date Analyzed	Lab ID
SET02 @ 3'	**5.83**	**0.110**	**13.4**	**146**	**6413**	**332**	< 50	05/21/14	05/22/14	1432 2
SET03 @ 3'	**0.016**	< 0.01	**0.064**	**0.764**	< 50	< 50	< 50	05/21/14	05/22/14	1432 3
SET07 @ 3'	< 0.01	< 0.01	**0.010**	**0.168**	< 50	< 50	< 50	05/21/14	05/22/14	1432 7
SET08 @ 3'	**1.43**	< 0.01	**18.8**	**145**	**3367**	**1405**	< 50	05/21/14	05/22/14	1432 8
SET09 @ 3'	< 0.01	< 0.01	**0.063**	**0.887**	< 50	< 50	< 50	05/21/14	05/22/14	1432 9
SET11 @ 3'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/21/14	05/22/14	1432 11
SET13 @ 3'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/21/14	05/22/14	1432 13
SWT03 @ 3'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/21/14	05/22/14	1432 16
SWT04 @ 3'	**0.343**	< 0.01	**2.87**	**23.1**	**1217**	**107**	< 50	05/21/14	05/22/14	1432 17

Soil
Quality Control - Surrogate Recoveries

May 22, 2014

eANALYTICS LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1432

Project: Hanks Pooling Unit 1

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SET02 @ 3'	96	97	100	101	05/21/14	05/22/14	1432 2
SET03 @ 3'	93	94	97	109	05/21/14	05/22/14	1432 3
SET07 @ 3'	101	109	106	88	05/21/14	05/22/14	1432 7
SET08 @ 3'	96	97	97	89	05/21/14	05/22/14	1432 8
SET09 @ 3'	101	106	87	111	05/21/14	05/22/14	1432 9
SET11 @ 3'	86	97	99	99	05/21/14	05/22/14	1432 11
SET13 @ 3'	92	103	95	89	05/21/14	05/22/14	1432 13
SWT03 @ 3'	94	91	100	111	05/21/14	05/22/14	1432 16
SWT04 @ 3'	94	99	98	90	05/21/14	05/22/14	1432 17

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Tasman Geosciences / Anadarko	Lab ID:	1432
Project:	Hanks Pooling Unit 1		
Analysis:	Volatile Organics TPH	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-benzene % Rec	Total Xylenes % Rec	TPH GRO C6-C10 % Rec	TPH DRO C10-C28 % Rec	TPH ORO C28-C36 % Rec	Date Analyzed		Lab ID	
Laboratory Control Sample	91	101	92	103	101	92	91	05/22/14	LCS	1432	2
(70-130%)											
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/22/14	MB	1432	2
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				