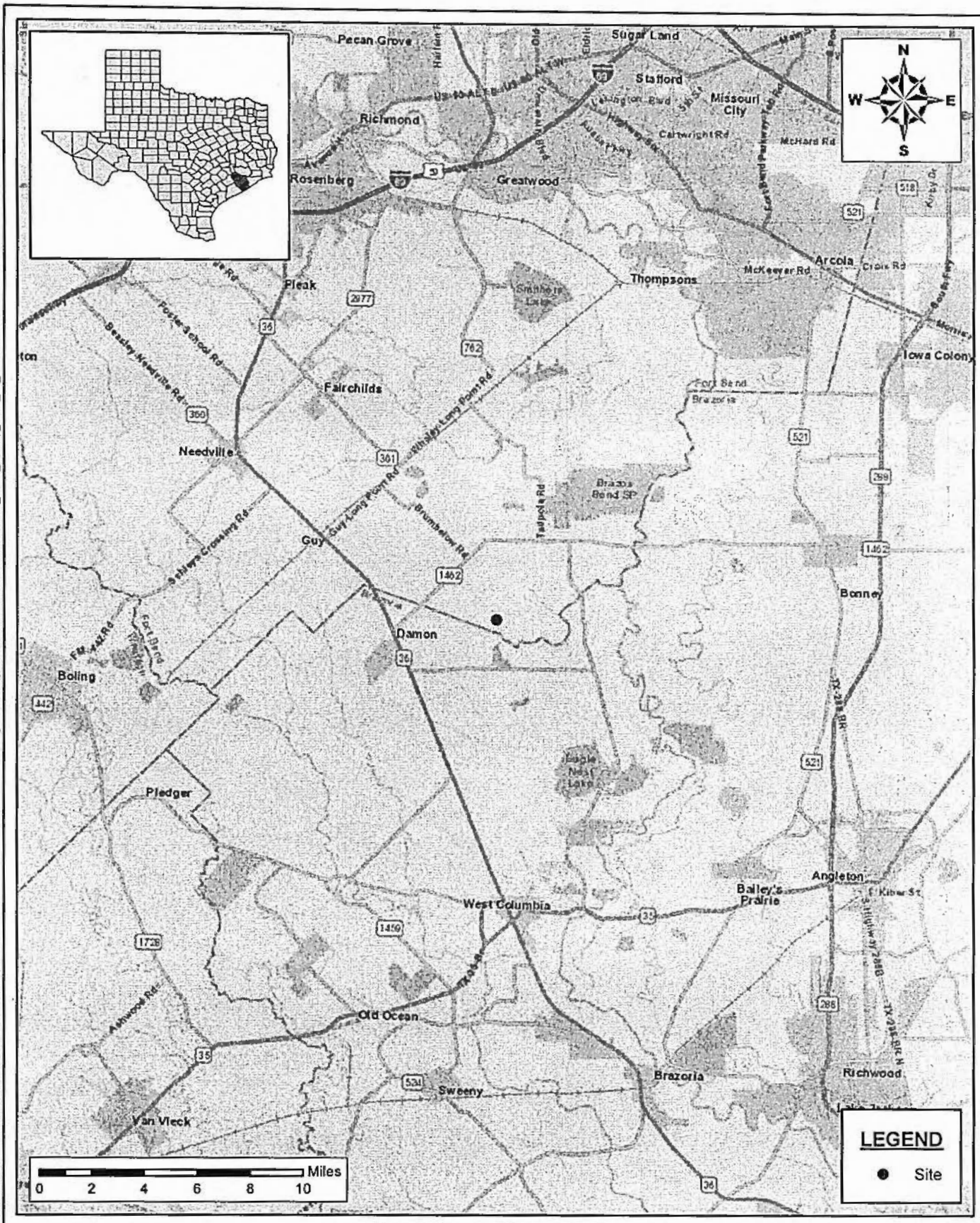

SITE LOCATION MAP
LIMITED SUBSURFACE INVESTIGATION
SPIKE DRILLING AND OPERATING
EDWIN THUESEN LEASE RELEASE
FORT BEND COUNTY, TEXAS

SCALE: AS SHOWN | DATE: 07/12/2017 | PROJECT #: SPIK-R1704414

NTG

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
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Web: www.ntglobal.com

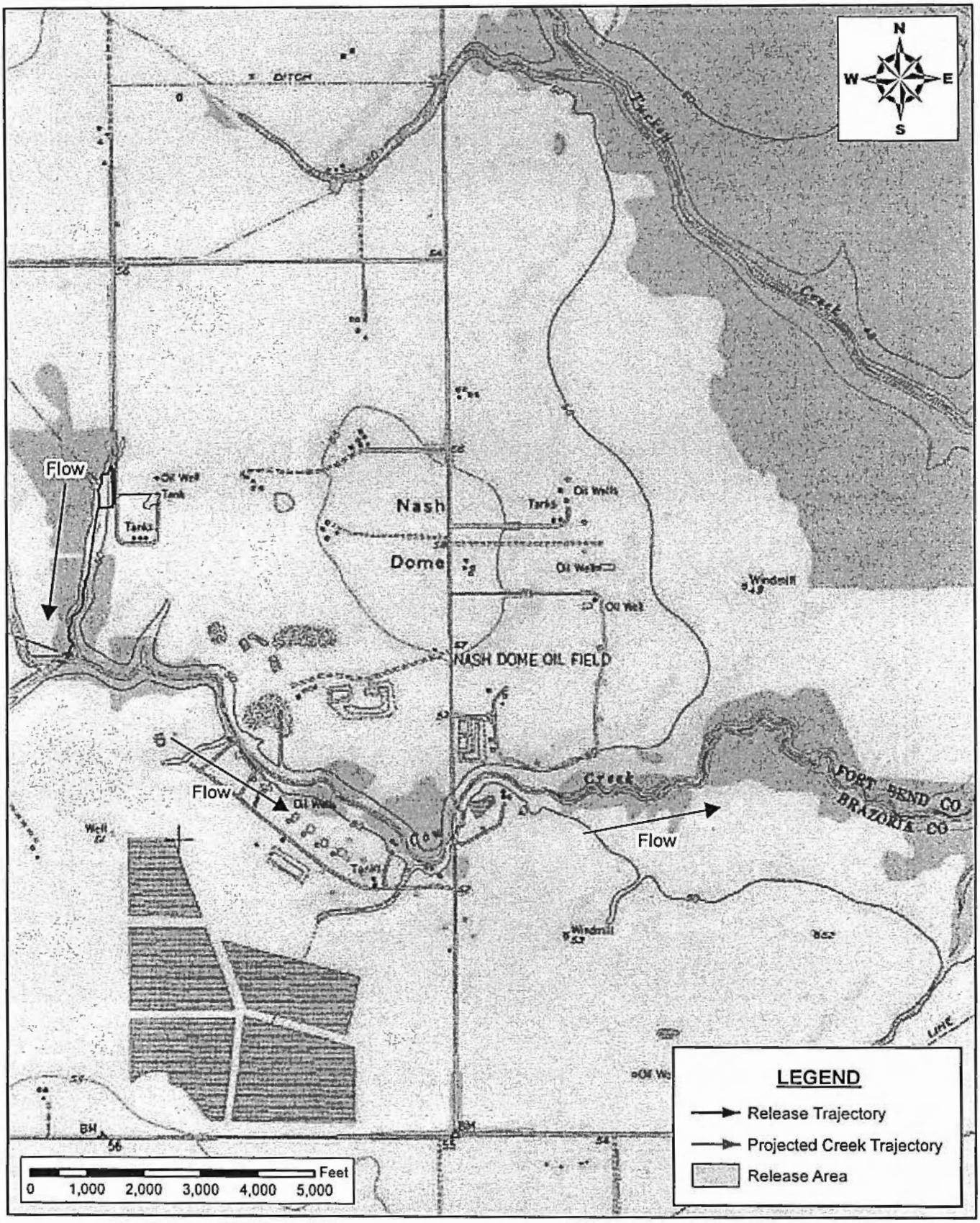
NOTES:

1. Base Image: ESRI Maps & Data 2016
2. Map Projection: NAD 1983 UTM Zone 15N

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1

Document Path: P:\2017 PROJECTS\SPIKE DRILLING & OPERATING (SPIK)\RSC\SPIK-R1704414 Limited Subsurface Investigation\7- Figures\Geodatabase\SPIK-R1704414_FIG 1_SLMap_2017_07_12.mxd

90041031



AREA MAP
LIMITED SUBSURFACE INVESTIGATION
SPIKE DRILLING AND OPERATING
EDWIN THUESEN LEASE RELEASE
FORT BEND COUNTY, TEXAS

SCALE: AS SHOWN | DATE: 07/12/2017 | PROJECT #: SPIK-R1704414

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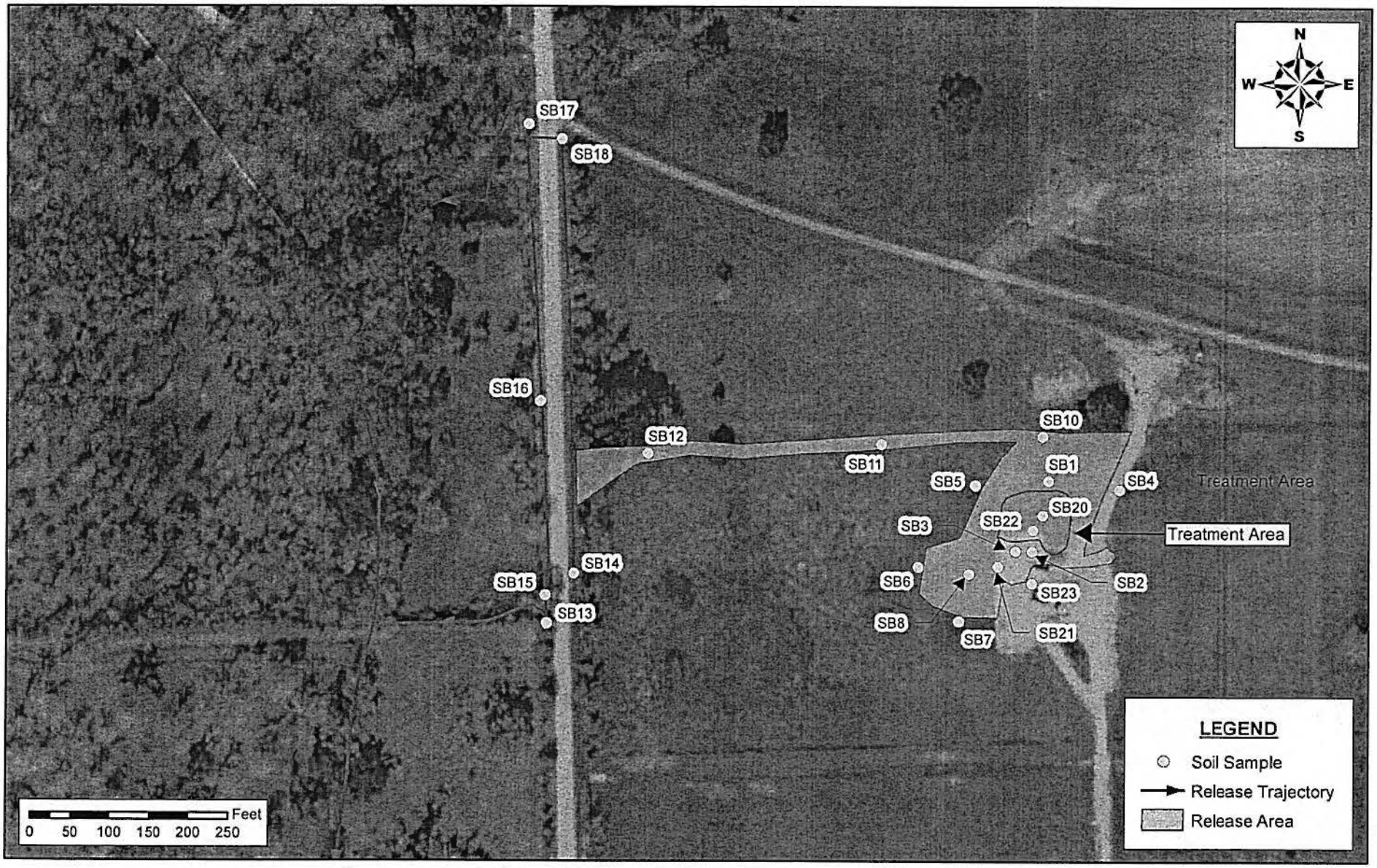
NOTES:

1. Base Image: USDA, NRCS-NCGC 2013
2. Map Projection: NAD 1983 State Plane Texas South Central Zone, US Feet

DRAWING NUMBER: FIGURE 2

SHEET NUMBER: 1 of 1

Document Path: P:\2017 PROJECTS\SPIKE DRILLING & OPERATING (SPIK)\RSC\SPIK-R1704414 Limited Subsurface Investigation\7- Figures\Geodatabase\SPIK-R1704414_FIG 2_AMap_2017_07_12.mxd



SAMPLE LOCATION AND SPILL TRAJECTORY MAP - TANK BATTERY LIMITED SUBSURFACE INVESTIGATION SPIKE DRILLING AND OPERATING EDWIN THUESEN LEASE RELEASE FORT BEND COUNTY, TEXAS			
SCALE: AS SHOWN	DATE: 09/13/2017	PROJECT #: SPIK-R1704414	

DRAWING NUMBER: FIGURE 3

SHEET NUMBER: 1 of 1

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NOTES:

1. Base Image: ESRI Maps and Data 2016
2. Map Projection: NAD 1983 State Plane Texas South Central Zone, US Feet

Document Path: P:\2017 PROJECTS\SPIKE DRILLING & OPERATING (SPIK)\RSC\SPIK-R1704414 Limited Subsurface Investigation\7- Figures\Geodatabase\SPIK-R1704414_FIG 3_TB Map_2017_09_13.mxd

1 of 1	SHEET NUMBER:	FIGURE 4	DRAWING NUMBER:

SAMPLE LOCATION AND SPILL TRAJECTORY MAP - WOODED PATH
LIMITED SUBSURFACE INVESTIGATION
SPIKE DRILLING AND OPERATING
EDWIN THUESEN LEASE RELEASE
FORT BEND COUNTY, TEXAS

SCALE: AS SHOWN	DATE: 09/13/2017	PROJECT #: SPIK-R1704414

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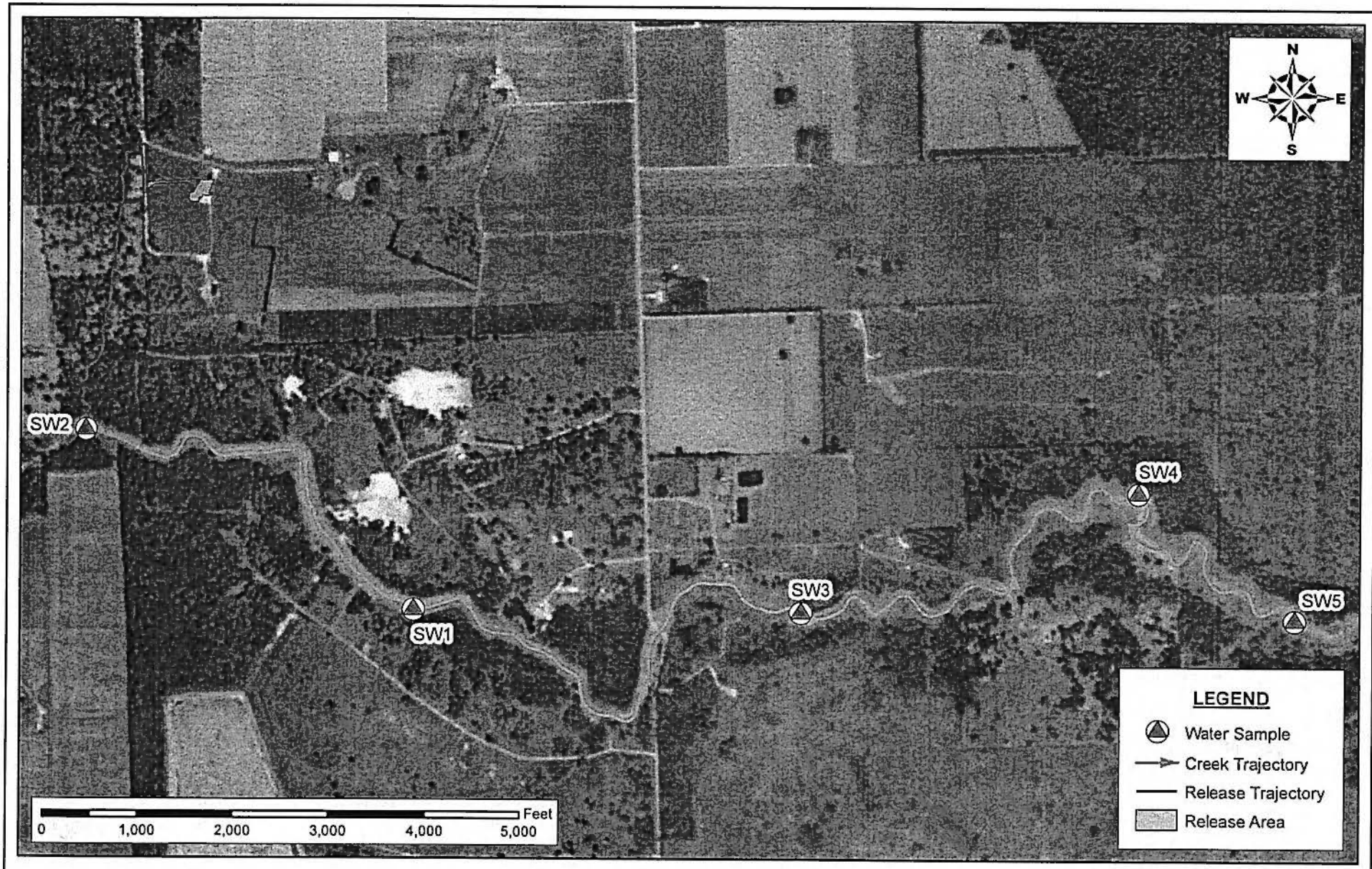
NOTES:
1. Base Image: ESRI Maps and Data 2016
2. Map Projection: NAD 1983 State Plane Texas South Central Zone, US Feet

Document Path: P:\2017 PROJECTS\SPIKE DRILLING & OPERATING (SPIK)\RSC\SPIK-R1704414 Limited Subsurface Investigation\7- Figures\Geodatabase\SPIK-R1704414_FIG 4_WP Map_2017_09_13.mxd



SAMPLE LOCATION AND SPILL TRAJECTORY MAP - CREEK
LIMITED SUBSURFACE INVESTIGATION
SPIKE DRILLING AND OPERATING
EDWIN THUESEN LEASE RELEASE
FORT BEND COUNTY, TEXAS

SCALE: AS SHOWN | DATE: 09/13/2017 | PROJECT #: SPIK-R1704414

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NTG ENVIRONMENTAL

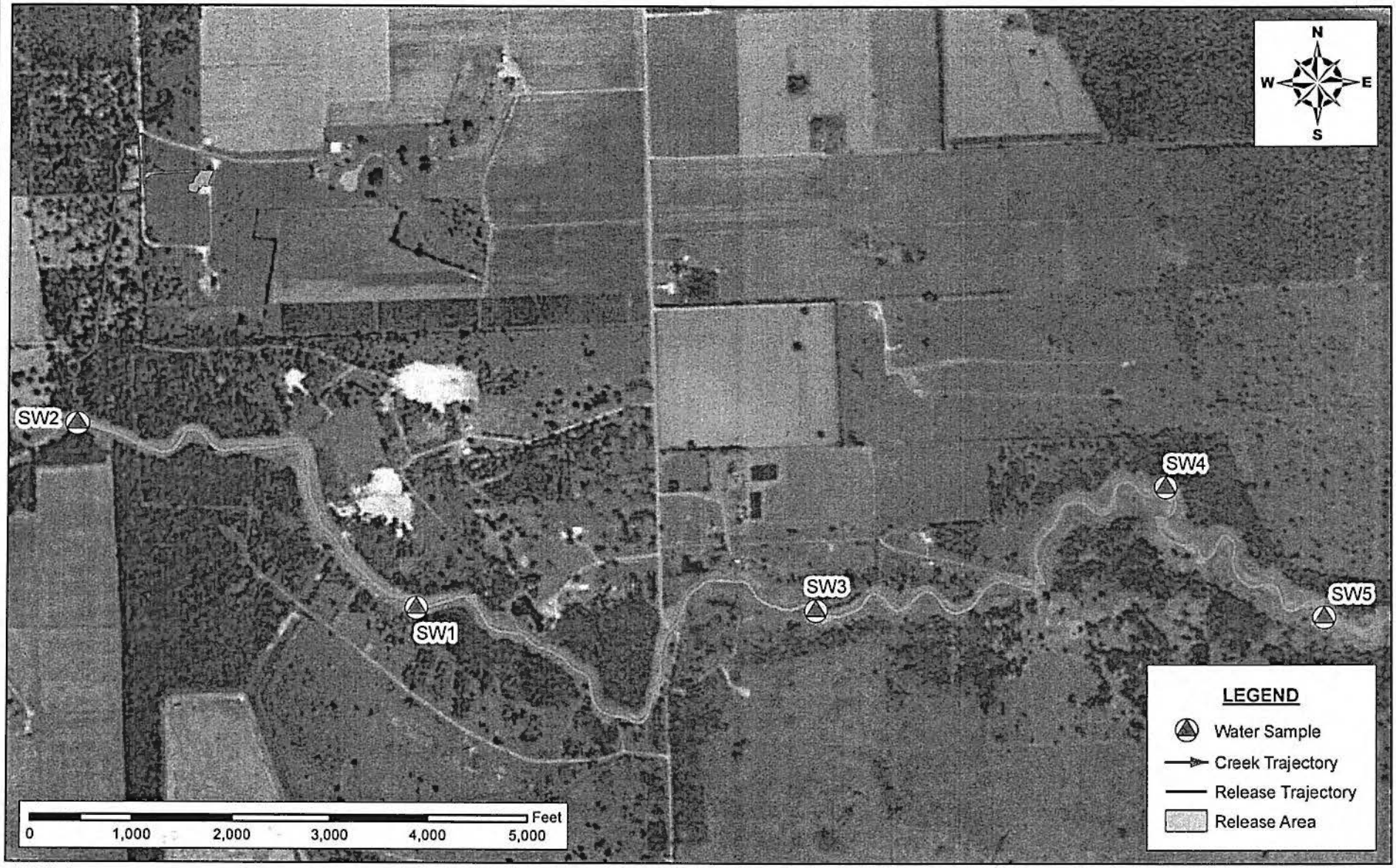
NOTES:

1. Base Image: ESRI Maps and Data 2016
2. Map Projection: NAD 1983 State Plane Texas South Central Zone, US Feet

DRAWING NUMBER: FIGURE 5

SHEET NUMBER: 1 of 1

Document Path: P:\2017 PROJECTS\SPIKE DRILLING & OPERATING (SPIK)\RSC\SPIK-R1704414 Limited Subsurface Investigation\7- Figures\Geodatabase\SPIK-R1704414_FIG 5_CR Map_2017_09_13.mxd



1 of 1	SHEET NUMBER:	FIGURE 6	DRAWING NUMBER:

SAMPLE LOCATION AND SPILL TRAJECTORY MAP - CREEK
LIMITED SUBSURFACE INVESTIGATION
SPIKE DRILLING AND OPERATING
EDWIN THUESEN LEASE RELEASE
FORT BEND COUNTY, TEXAS

SCALE: AS SHOWN	DATE: 07/13/2017	PROJECT #: SPIK-R1704414

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NTG ENVIRONMENTAL

NOTES:

1. Base Image: ESRI Maps and Data 2016
2. Map Projection: NAD 1983 State Plane Texas South Central Zone, US Feet

Document Path: P:\2017 PROJECTS\SPIKE DRILLING & OPERATING (SPIK)\RSC\SPIK-R1704414 Limited Subsurface Investigation\7- Figures\Geodatabase\SPIK-R1704414_FIG 6_CR Map_2017_07_12.mxd

LABORATORY RESULTS AND CHAIN-OF-CUSTODY DOCUMENTS

ANALYTICAL REPORT

July 11, 2017

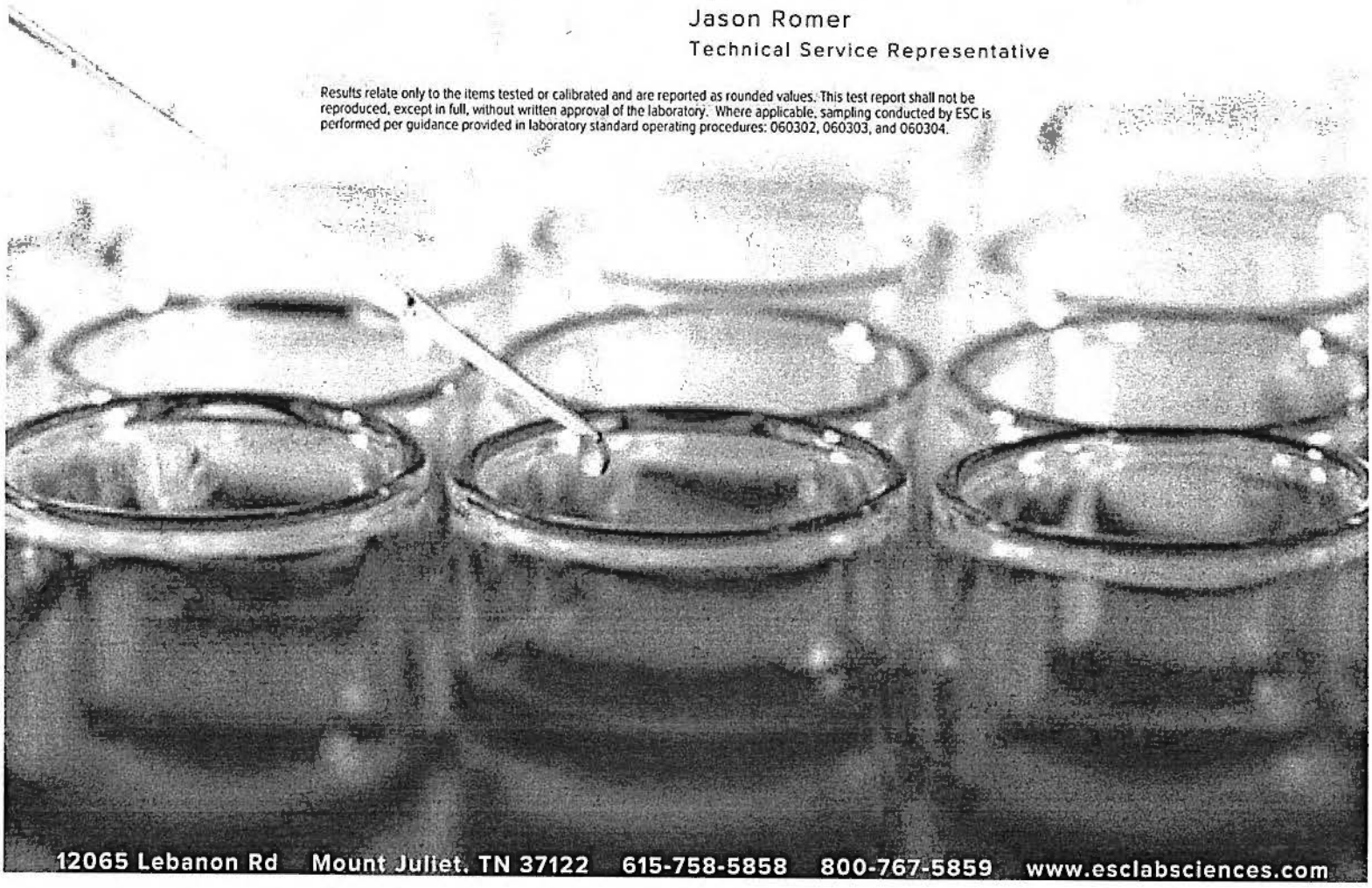
NTGE

Sample Delivery Group:	L919411
Samples Received:	06/29/2017
Project Number:	SPIK-R1704414
Description:	SPIK-R1704414
Report To:	John Wilson 911 Regional Park Dr Houston, TX 77060

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SB1 0-1 L919411-01 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 12:15 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995499	1	07/05/17 13:13	07/05/17 13:22	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/06/17 17:41	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 14:53	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 18:56	DMG

SB1 2-3 L919411-02 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 12:20 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995499	1	07/05/17 13:13	07/05/17 13:22	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/06/17 18:02	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 15:15	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 19:09	DMG

SB1 4-5 L919411-03 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 12:25 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995499	1	07/05/17 13:13	07/05/17 13:22	MLW
Wet Chemistry by Method 9056A	WG994487	2	06/30/17 16:36	07/06/17 18:24	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 15:37	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 19:22	DMG

SB2 0-1 L919411-04 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 14:15 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994980	1	07/01/17 13:14	07/01/17 13:21	MLW
Wet Chemistry by Method 9056A	WG994487	5	06/30/17 16:36	07/06/17 18:45	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 16:00	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 19:35	DMG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	5	07/07/17 07:43	07/08/17 13:34	DMW

SB2 2-3 L919411-05 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 14:20 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995499	1	07/05/17 13:13	07/05/17 13:22	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/07/17 11:28	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 16:22	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/08/17 13:21	DMW

SB3 SURFACE L919411-06 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 14:45 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995499	1	07/05/17 13:13	07/05/17 13:22	MLW
Wet Chemistry by Method 9056A	WG994487	5	06/30/17 16:36	07/06/17 20:31	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 16:44	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 20:01	DMG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	5	07/07/17 07:43	07/08/17 13:47	DMW

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

SB4 0-1 L919411-07 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 15:05 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995499	1	07/05/17 13:13	07/05/17 13:22	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/06/17 20:52	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 17:06	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/10/17 17:38	DMW

SB8 2-3 L919411-08 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 16:40 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995499	1	07/05/17 13:13	07/05/17 13:22	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/06/17 21:13	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 17:29	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 20:26	DMG

SB5 0-1 L919411-09 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 15:25 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995499	1	07/05/17 13:13	07/05/17 13:22	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/06/17 21:34	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 17:51	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 20:39	DMG

SB6 0-1 L919411-10 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 15:50 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/06/17 21:56	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 18:13	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 20:52	DMG

SB7 0-1 L919411-11 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 16:05 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/06/17 22:17	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995592	1	07/03/17 12:46	07/05/17 18:35	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 21:30	DMG

SB8 0-1 L919411-12 Solid

Collected by: Trey Charanza | Collected date/time: 06/26/17 16:35 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/06/17 22:38	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/10/17 12:49	DWR
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 21:42	DMG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	5	07/07/17 07:43	07/08/17 14:00	DMW

Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SB9 0-1 L919411-13 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 10:55 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/07/17 00:24	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/10/17 13:12	DWR
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/10/17 17:26	DMW

SB10 0-1 L919411-14 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 16:40 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/07/17 00:45	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 14:08	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 22:07	DMG

SB11 0-1 L919411-15 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 16:45 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/07/17 01:06	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 14:31	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 22:20	DMG

SB12 0-1 L919411-16 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 17:20 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994905	1	07/01/17 13:52	07/01/17 13:58	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/07/17 01:28	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 14:53	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 22:32	DMG

SB13 0-1 L919411-17 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 18:05 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/07/17 02:10	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 15:15	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 22:45	DMG

SB14 0-1 L919411-18 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 18:10 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994980	1	07/01/17 13:14	07/01/17 13:21	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/07/17 02:52	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 15:38	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 22:57	DMG

SB15 0-1 L919411-19 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 18:20 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994487	1	06/30/17 16:36	07/07/17 02:31	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 16:00	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 23:09	DMG

SB16 0-1 L919411-20 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 19:05 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994965	1	07/05/17 14:34	07/05/17 20:15	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 16:22	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996333	1	07/07/17 07:43	07/07/17 23:22	DMG

SB17 0-1 L919411-21 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 19:30 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995500	1	07/05/17 13:00	07/05/17 13:11	MLW
Wet Chemistry by Method 9056A	WG994965	1	07/05/17 14:34	07/05/17 20:33	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 16:45	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996334	1	07/07/17 07:43	07/08/17 03:28	DMG

SB18 0-1 L919411-22 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 19:35 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995502	1	07/05/17 09:36	07/05/17 09:51	MLW
Wet Chemistry by Method 9056A	WG994965	1	07/05/17 14:34	07/05/17 20:42	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 17:07	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996334	1	07/07/17 07:43	07/08/17 03:40	DMG

SB19 0-1 L919411-23 Solid

Collected by: Trey Charanza | Collected date/time: 06/27/17 20:05 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995502	1	07/05/17 09:36	07/05/17 09:51	MLW
Wet Chemistry by Method 9056A	WG994965	1	07/05/17 14:34	07/05/17 20:51	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995675	1	07/03/17 12:46	07/07/17 17:29	LRL
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG996334	1	07/07/17 07:43	07/08/17 03:53	DMG

SW1 L919411-24 GW

Collected by: Trey Charanza | Collected date/time: 06/26/17 17:45 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG994700	1	07/01/17 10:30	07/01/17 10:52	EG
Wet Chemistry by Method 9056A	WG996156	1	07/06/17 20:33	07/06/17 20:33	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995679	1	07/05/17 18:08	07/05/17 18:08	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG994799	1	07/03/17 03:07	07/03/17 11:30	DMW

SW2 L919411-25 GW

Collected by: Trey Charanza | Collected date/time: 06/27/17 09:55 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG994950	1	07/04/17 09:20	07/04/17 09:49	MZ
Wet Chemistry by Method 9056A	WG996156	1	07/06/17 20:59	07/06/17 20:59	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995679	1	07/05/17 18:30	07/05/17 18:30	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG994799	1	07/03/17 03:07	07/03/17 11:42	DMW

SW3 L919411-26 GW

Collected by: Trey Charanza | Collected date/time: 06/27/17 14:10 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG994950	1	07/04/17 09:20	07/04/17 09:49	MZ
Wet Chemistry by Method 9056A	WG996156	1	07/06/17 21:25	07/06/17 21:25	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995679	1	07/05/17 18:52	07/05/17 18:52	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG994799	1	07/03/17 03:07	07/03/17 11:55	DMW

SW4 L919411-27 GW

Collected by: Trey Charanza | Collected date/time: 06/27/17 15:10 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG994950	1	07/04/17 09:20	07/04/17 09:49	MZ
Wet Chemistry by Method 9056A	WG996156	1	07/06/17 21:38	07/06/17 21:38	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995679	1	07/05/17 19:15	07/05/17 19:15	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG994799	1	07/03/17 03:07	07/03/17 12:07	DMW

SW5 L919411-28 GW

Collected by: Trey Charanza | Collected date/time: 06/27/17 15:45 | Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG994950	1	07/04/17 09:20	07/04/17 09:49	MZ
Wet Chemistry by Method 9056A	WG996156	1	07/06/17 22:17	07/06/17 22:17	SAM
Volatile Organic Compounds (GC) by Method 8021B	WG995679	1	07/05/17 19:37	07/05/17 19:37	ACG
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG994799	1	07/03/17 03:07	07/03/17 12:19	DMW

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.1		1	07/05/2017 13:22	WG995499

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1100		1.09	10.0	13.7	1	07/06/2017 17:41	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000164	0.000500	0.000684	1	07/05/2017 14:53	WG995592
Toluene	0.000413	B J	0.000205	0.00500	0.00684	1	07/05/2017 14:53	WG995592
Ethylbenzene	0.000472	B J	0.000150	0.000500	0.000684	1	07/05/2017 14:53	WG995592
Total Xylene	0.000757	B J	0.000629	0.00150	0.00205	1	07/05/2017 14:53	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*101*				*75.0-128*		*07/05/2017 14:53*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		20.5	50.0	68.4	1	07/07/2017 18:56	WG996333
TPH C12 - C28	U		20.5	50.0	68.4	1	07/07/2017 18:56	WG996333
TPH C28 - C35	U		20.5	50.0	68.4	1	07/07/2017 18:56	WG996333
TPH C6 - C35	U		20.5	50.0	68.4	1	07/07/2017 18:56	WG996333
(S) o-Terphenyl	*99.3*				*70.0-130*		*07/07/2017 18:56*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.1		1	07/05/2017 13:22	WG995499

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1210		1.09	10.0	13.7	1	07/06/2017 18:02	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000164	0.000500	0.000684	1	07/05/2017 15:15	WG995592
Toluene	0.000249	B J	0.000205	0.00500	0.00684	1	07/05/2017 15:15	WG995592
Ethylbenzene	0.000267	B J	0.000151	0.000500	0.000684	1	07/05/2017 15:15	WG995592
Total Xylene	U		0.000629	0.00150	0.00205	1	07/05/2017 15:15	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*101*				*75.0-128*		*07/05/2017 15:15*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		20.5	50.0	68.4	1	07/07/2017 19:09	WG996333
TPH C12 - C28	U		20.5	50.0	68.4	1	07/07/2017 19:09	WG996333
TPH C28 - C35	U		20.5	50.0	68.4	1	07/07/2017 19:09	WG996333
TPH C6 - C35	U		20.5	50.0	68.4	1	07/07/2017 19:09	WG996333
(S) o-Terphenyl	*110*				*70.0-130*		*07/07/2017 19:09*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.0		1	07/05/2017 13:22	WG995499

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1490		2.18	10.0	27.4	2	07/06/2017 18:24	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000164	0.000500	0.000685	1	07/05/2017 15:37	WG995592
Toluene	U		0.000205	0.00500	0.00685	1	07/05/2017 15:37	WG995592
Ethylbenzene	U		0.000151	0.000500	0.000685	1	07/05/2017 15:37	WG995592
Total Xylene	U		0.000630	0.00150	0.00205	1	07/05/2017 15:37	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*101*				*75.0-128*		*07/05/2017 15:37*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		20.5	50.0	68.5	1	07/07/2017 19:22	WG996333
TPH C12 - C28	U		20.5	50.0	68.5	1	07/07/2017 19:22	WG996333
TPH C28 - C35	U		20.5	50.0	68.5	1	07/07/2017 19:22	WG996333
TPH C6 - C35	U		20.5	50.0	68.5	1	07/07/2017 19:22	WG996333
(S) o-Terphenyl	*107*				*70.0-130*		*07/07/2017 19:22*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.2		1	07/01/2017 13:21	WG994980

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	5540		4.84	10.0	60.9	5	07/06/2017 18:45	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000146	0.000500	0.000609	1	07/05/2017 16:00	WG995592
Toluene	U		0.000183	0.00500	0.00609	1	07/05/2017 16:00	WG995592
Ethylbenzene	U		0.000134	0.000500	0.000609	1	07/05/2017 16:00	WG995592
Total Xylene	U		0.000560	0.00150	0.00183	1	07/05/2017 16:00	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*98.3*				*75.0-128*		*07/05/2017 16:00*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		18.3	50.0	60.9	1	07/07/2017 19:35	WG996333
TPH C12 - C28	3340		91.3	50.0	304	5	07/08/2017 13:34	WG996333
TPH C28 - C35	669		18.3	50.0	60.9	1	07/07/2017 19:35	WG996333
TPH C6 - C35	4020		91.3	50.0	304	5	07/08/2017 13:34	WG996333
(S) o-Terphenyl	*108*				*70.0-130*		*07/08/2017 13:34*	WG996333
(S) o-Terphenyl	*112*				*70.0-130*		*07/07/2017 19:35*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.5		1	07/05/2017 13:22	WG995499

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	441		1.08	10.0	13.6	1	07/07/2017 11:28	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000163	0.000500	0.000680	1	07/05/2017 16:22	WG995592
Toluene	U		0.000204	0.00500	0.00680	1	07/05/2017 16:22	WG995592
Ethylbenzene	U		0.000150	0.000500	0.000680	1	07/05/2017 16:22	WG995592
Total Xylene	0.00120	B J	0.000626	0.00150	0.00204	1	07/05/2017 16:22	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*101*				*75.0-128*		*07/05/2017 16:22*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		20.4	50.0	68.0	1	07/08/2017 13:21	WG996333
TPH C12 - C28	U		20.4	50.0	68.0	1	07/08/2017 13:21	WG996333
TPH C28 - C35	U		20.4	50.0	68.0	1	07/08/2017 13:21	WG996333
TPH C6 - C35	U		20.4	50.0	68.0	1	07/08/2017 13:21	WG996333
(S) o-Terphenyl	*107*				*70.0-130*		*07/08/2017 13:21*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	07/05/2017 13:22	WG995499

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	6060		4.86	10.0	61.1	5	07/06/2017 20:31	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000147	0.000500	0.000611	1	07/05/2017 16:44	WG995592
Toluene	0.000346	B J	0.000183	0.00500	0.00611	1	07/05/2017 16:44	WG995592
Ethylbenzene	0.000145	B J	0.000134	0.000500	0.000611	1	07/05/2017 16:44	WG995592
Total Xylene	U		0.000562	0.00150	0.00183	1	07/05/2017 16:44	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*97.0*				*75.0-128*		*07/05/2017 16:44*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	19.7	J	18.3	50.0	61.1	1	07/07/2017 20:01	WG996333
TPH C12 - C28	5230		91.6	50.0	305	5	07/08/2017 13:47	WG996333
TPH C28 - C35	997		18.3	50.0	61.1	1	07/07/2017 20:01	WG996333
TPH C6 - C35	6240		91.6	50.0	305	5	07/08/2017 13:47	WG996333
(S) o-Terphenyl	*110*				*70.0-130*		*07/08/2017 13:47*	WG996333
(S) o-Terphenyl	*111*				*70.0-130*		*07/07/2017 20:01*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	76.6		1	07/05/2017 13:22	WG995499

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	99.2		1.04	10.0	13.1	1	07/06/2017 20:52	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000157	0.000500	0.000653	1	07/05/2017 17:06	WG995592
Toluene	U		0.000196	0.00500	0.00653	1	07/05/2017 17:06	WG995592
Ethylbenzene	0.000322	B J	0.000144	0.000500	0.000653	1	07/05/2017 17:06	WG995592
Total Xylene	0.00118	B J	0.000600	0.00150	0.00196	1	07/05/2017 17:06	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*102*				*75.0-128*		*07/05/2017 17:06*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		19.6	50.0	65.3	1	07/10/2017 17:38	WG996333
TPH C12 - C28	U		19.6	50.0	65.3	1	07/10/2017 17:38	WG996333
TPH C28 - C35	U		19.6	50.0	65.3	1	07/10/2017 17:38	WG996333
TPH C6 - C35	U		19.6	50.0	65.3	1	07/10/2017 17:38	WG996333
(S) o-Terphenyl	*87.0*				*70.0-130*		*07/10/2017 17:38*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.0		1	07/05/2017 13:22	WG995499

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1000		0.982	10.0	12.3	1	07/06/2017 21:13	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000148	J	0.000148	0.000500	0.000617	1	07/05/2017 17:29	WG995592
Toluene	U		0.000185	0.00500	0.00617	1	07/05/2017 17:29	WG995592
Ethylbenzene	0.000160	B J	0.000136	0.000500	0.000617	1	07/05/2017 17:29	WG995592
Total Xylene	U		0.000568	0.00150	0.00185	1	07/05/2017 17:29	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*103*				*75.0-128*		*07/05/2017 17:29*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		18.5	50.0	61.7	1	07/07/2017 20:26	WG996333
TPH C12 - C28	U		18.5	50.0	61.7	1	07/07/2017 20:26	WG996333
TPH C28 - C35	U		18.5	50.0	61.7	1	07/07/2017 20:26	WG996333
TPH C6 - C35	U		18.5	50.0	61.7	1	07/07/2017 20:26	WG996333
(S) o-Terphenyl	*110*				*70.0-130*		*07/07/2017 20:26*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.7		1	07/05/2017 13:22	WG995499

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	73.2		1.02	10.0	12.9	1	07/06/2017 21:34	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000154	0.000500	0.000644	1	07/05/2017 17:51	WG995592
Toluene	U		0.000193	0.00500	0.00644	1	07/05/2017 17:51	WG995592
Ethylbenzene	U		0.000142	0.000500	0.000644	1	07/05/2017 17:51	WG995592
Total Xylene	U		0.000592	0.00150	0.00193	1	07/05/2017 17:51	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*99.9*				*75.0-128*		*07/05/2017 17:51*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		19.3	50.0	64.4	1	07/07/2017 20:39	WG996333
TPH C12 - C28	U		19.3	50.0	64.4	1	07/07/2017 20:39	WG996333
TPH C28 - C35	U		19.3	50.0	64.4	1	07/07/2017 20:39	WG996333
TPH C6 - C35	U		19.3	50.0	64.4	1	07/07/2017 20:39	WG996333
(S) o-Terphenyl	*104*				*70.0-130*		*07/07/2017 20:39*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.6		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	92.7		1.02	10.0	12.9	1	07/06/2017 21:56	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000155	0.000500	0.000644	1	07/05/2017 18:13	WG995592
Toluene	U		0.000193	0.00500	0.00644	1	07/05/2017 18:13	WG995592
Ethylbenzene	U		0.000142	0.000500	0.000644	1	07/05/2017 18:13	WG995592
Total Xylene	U		0.000593	0.00150	0.00193	1	07/05/2017 18:13	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*98.4*				*75.0-128*		*07/05/2017 18:13*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		19.3	50.0	64.4	1	07/07/2017 20:52	WG996333
TPH C12 - C28	U		19.3	50.0	64.4	1	07/07/2017 20:52	WG996333
TPH C28 - C35	U		19.3	50.0	64.4	1	07/07/2017 20:52	WG996333
TPH C6 - C35	U		19.3	50.0	64.4	1	07/07/2017 20:52	WG996333
(S) o-Terphenyl	*102*				*70.0-130*		*07/07/2017 20:52*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.4		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	72.4		1.05	10.0	13.3	1	07/06/2017 22:17	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000159	0.000500	0.000663	1	07/05/2017 18:35	WG995592
Toluene	U		0.000199	0.00500	0.00663	1	07/05/2017 18:35	WG995592
Ethylbenzene	U		0.000146	0.000500	0.000663	1	07/05/2017 18:35	WG995592
Total Xylene	U		0.000610	0.00150	0.00199	1	07/05/2017 18:35	WG995592
(S) a,a,a-Trifluorotoluene(PID)	*100*				*75.0-128*		*07/05/2017 18:35*	WG995592

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		19.9	50.0	66.3	1	07/07/2017 21:30	WG996333
TPH C12 - C28	U		19.9	50.0	66.3	1	07/07/2017 21:30	WG996333
TPH C28 - C35	U		19.9	50.0	66.3	1	07/07/2017 21:30	WG996333
TPH C6 - C35	U		19.9	50.0	66.3	1	07/07/2017 21:30	WG996333
(S) o-Terphenyl	*107*				*70.0-130*		*07/07/2017 21:30*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.7		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	341		1.05	10.0	13.2	1	07/06/2017 22:38	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000159	0.000500	0.000661	1	07/10/2017 12:49	WG995675
Toluene	0.000712	B J	0.000198	0.00500	0.00661	1	07/10/2017 12:49	WG995675
Ethylbenzene	0.000847	B	0.000145	0.000500	0.000661	1	07/10/2017 12:49	WG995675
Total Xylene	0.00292		0.000608	0.00150	0.00198	1	07/10/2017 12:49	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*94.9*				*75.0-128*		*07/10/2017 12:49*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	85.9		19.8	50.0	66.1	1	07/07/2017 21:42	WG996333
TPH C12 - C28	3670		99.1	50.0	330	5	07/08/2017 14:00	WG996333
TPH C28 - C35	454		19.8	50.0	66.1	1	07/07/2017 21:42	WG996333
TPH C6 - C35	4210		99.1	50.0	330	5	07/08/2017 14:00	WG996333
(S) o-Terphenyl	*107*				*70.0-130*		*07/08/2017 14:00*	WG996333
(S) o-Terphenyl	*101*				*70.0-130*		*07/07/2017 21:42*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.2		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	196		1.06	10.0	13.3	1	07/07/2017 00:24	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000160	0.000500	0.000665	1	07/10/2017 13:12	WG995675
Toluene	U		0.000199	0.00500	0.00665	1	07/10/2017 13:12	WG995675
Ethylbenzene	0.000417	B J	0.000146	0.000500	0.000665	1	07/10/2017 13:12	WG995675
Total Xylene	0.00111	J	0.000612	0.00150	0.00199	1	07/10/2017 13:12	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*103*				*75.0-128*		*07/10/2017 13:12*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		19.9	50.0	66.5	1	07/10/2017 17:26	WG996333
TPH C12 - C28	U		19.9	50.0	66.5	1	07/10/2017 17:26	WG996333
TPH C28 - C35	U		19.9	50.0	66.5	1	07/10/2017 17:26	WG996333
TPH C6 - C35	U		19.9	50.0	66.5	1	07/10/2017 17:26	WG996333
(S) o-Terphenyl	*102*				*70.0-130*		*07/10/2017 17:26*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.2		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	443		1.09	10.0	13.7	1	07/07/2017 00:45	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000164	0.000500	0.000683	1	07/07/2017 14:08	WG995675
Toluene	U		0.000205	0.00500	0.00683	1	07/07/2017 14:08	WG995675
Ethylbenzene	0.000259	B J	0.000150	0.000500	0.000683	1	07/07/2017 14:08	WG995675
Total Xylene	0.000652	B J	0.000628	0.00150	0.00205	1	07/07/2017 14:08	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*95.1*				*75.0-128*		*07/07/2017 14:08*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		20.5	50.0	68.3	1	07/07/2017 22:07	WG996333
TPH C12 - C28	U		20.5	50.0	68.3	1	07/07/2017 22:07	WG996333
TPH C28 - C35	U		20.5	50.0	68.3	1	07/07/2017 22:07	WG996333
TPH C6 - C35	U		20.5	50.0	68.3	1	07/07/2017 22:07	WG996333
(S) o-Terphenyl	*98.8*				*70.0-130*		*07/07/2017 22:07*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	70.6		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	60.7		1.13	10.0	14.2	1	07/07/2017 01:06	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000170	0.000500	0.000709	1	07/07/2017 14:31	WG995675
Toluene	U		0.000213	0.00500	0.00709	1	07/07/2017 14:31	WG995675
Ethylbenzene	U		0.000156	0.000500	0.000709	1	07/07/2017 14:31	WG995675
Total Xylene	U		0.000652	0.00150	0.00213	1	07/07/2017 14:31	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*99.9*				*75.0-128*		*07/07/2017 14:31*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		21.3	50.0	70.9	1	07/07/2017 22:20	WG996333
TPH C12 - C28	U		21.3	50.0	70.9	1	07/07/2017 22:20	WG996333
TPH C28 - C35	U		21.3	50.0	70.9	1	07/07/2017 22:20	WG996333
TPH C6 - C35	U		21.3	50.0	70.9	1	07/07/2017 22:20	WG996333
(S) o-Terphenyl	*107*				*70.0-130*		*07/07/2017 22:20*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.4		1	07/01/2017 13:58	WG994905

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	78.1	J3	1.10	10.0	13.8	1	07/07/2017 01:28	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000166	0.000500	0.000691	1	07/07/2017 14:53	WG995675
Toluene	U		0.000207	0.00500	0.00691	1	07/07/2017 14:53	WG995675
Ethylbenzene	0.000165	B J	0.000152	0.000500	0.000691	1	07/07/2017 14:53	WG995675
Total Xylene	U		0.000636	0.00150	0.00207	1	07/07/2017 14:53	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*99.7*				*75.0-128*		*07/07/2017 14:53*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		20.7	50.0	69.1	1	07/07/2017 22:32	WG996333
TPH C12 - C28	U		20.7	50.0	69.1	1	07/07/2017 22:32	WG996333
TPH C28 - C35	U		20.7	50.0	69.1	1	07/07/2017 22:32	WG996333
TPH C6 - C35	U		20.7	50.0	69.1	1	07/07/2017 22:32	WG996333
(S) o-Terphenyl	*96.6*				*70.0-130*		*07/07/2017 22:32*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.4		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	60.0		1.08	10.0	13.6	1	07/07/2017 02:10	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000163	0.000500	0.000681	1	07/07/2017 15:15	WG995675
Toluene	0.000210	B J	0.000204	0.00500	0.00681	1	07/07/2017 15:15	WG995675
Ethylbenzene	0.000207	B J	0.000150	0.000500	0.000681	1	07/07/2017 15:15	WG995675
Total Xylene	U		0.000626	0.00150	0.00204	1	07/07/2017 15:15	WG995675
(S) α,α,α-Trifluorotoluene(PID)	*101*				*75.0-128*		*07/07/2017 15:15*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		20.4	50.0	68.1	1	07/07/2017 22:45	WG996333
TPH C12 - C28	U		20.4	50.0	68.1	1	07/07/2017 22:45	WG996333
TPH C28 - C35	U		20.4	50.0	68.1	1	07/07/2017 22:45	WG996333
TPH C6 - C35	U		20.4	50.0	68.1	1	07/07/2017 22:45	WG996333
(S) o-Terphenyl	*114*				*70.0-130*		*07/07/2017 22:45*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	71.7		1	07/01/2017 13:21	WG994980

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	98.0		1.11	10.0	13.9	1	07/07/2017 02:52	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000167	0.000500	0.000697	1	07/07/2017 15:38	WG995675
Toluene	U		0.000209	0.00500	0.00697	1	07/07/2017 15:38	WG995675
Ethylbenzene	U		0.000153	0.000500	0.000697	1	07/07/2017 15:38	WG995675
Total Xylene	U		0.000642	0.00150	0.00209	1	07/07/2017 15:38	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*101*				*75.0-128*		*07/07/2017 15:38*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		20.9	50.0	69.7	1	07/07/2017 22:57	WG996333
TPH C12 - C28	U		20.9	50.0	69.7	1	07/07/2017 22:57	WG996333
TPH C28 - C35	U		20.9	50.0	69.7	1	07/07/2017 22:57	WG996333
TPH C6 - C35	U		20.9	50.0	69.7	1	07/07/2017 22:57	WG996333
(S) o-Terphenyl	*106*				*70.0-130*		*07/07/2017 22:57*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	68.7		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	65.3		1.16	10.0	14.5	1	07/07/2017 02:31	WG994487

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000175	0.000500	0.000727	1	07/07/2017 16:00	WG995675
Toluene	0.000577	B J	0.000218	0.00500	0.00727	1	07/07/2017 16:00	WG995675
Ethylbenzene	0.000676	B J	0.000160	0.000500	0.000727	1	07/07/2017 16:00	WG995675
Total Xylene	0.00121	B J	0.000669	0.00150	0.00218	1	07/07/2017 16:00	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*101*				*75.0-128*		*07/07/2017 16:00*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		21.8	50.0	72.7	1	07/07/2017 23:09	WG996333
TPH C12 - C28	22.8	J	21.8	50.0	72.7	1	07/07/2017 23:09	WG996333
TPH C28 - C35	U		21.8	50.0	72.7	1	07/07/2017 23:09	WG996333
TPH C6 - C35	22.8	J	21.8	50.0	72.7	1	07/07/2017 23:09	WG996333
(S) o-Terphenyl	*109*				*70.0-130*		*07/07/2017 23:09*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	69.6		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	76.6		1.14	10.0	14.4	1	07/05/2017 20:15	WG994965

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000172	0.000500	0.000718	1	07/07/2017 16:22	WG995675
Toluene	0.000280	B J	0.000215	0.00500	0.00718	1	07/07/2017 16:22	WG995675
Ethylbenzene	0.000520	B J	0.000158	0.000500	0.000718	1	07/07/2017 16:22	WG995675
Total Xylene	0.000825	B J	0.000661	0.00150	0.00215	1	07/07/2017 16:22	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*99.7*				*75.0-128*		*07/07/2017 16:22*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		21.5	50.0	71.8	1	07/07/2017 23:22	WG996333
TPH C12 - C28	U		21.5	50.0	71.8	1	07/07/2017 23:22	WG996333
TPH C28 - C35	U		21.5	50.0	71.8	1	07/07/2017 23:22	WG996333
TPH C6 - C35	U		21.5	50.0	71.8	1	07/07/2017 23:22	WG996333
(S) o-Terphenyl	*108*				*70.0-130*		*07/07/2017 23:22*	WG996333

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	65.9		1	07/05/2017 13:11	WG995500

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	101		1.21	10.0	15.2	1	07/05/2017 20:33	WG994965

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000182	0.000500	0.000759	1	07/07/2017 16:45	WG995675
Toluene	U		0.000228	0.00500	0.00759	1	07/07/2017 16:45	WG995675
Ethylbenzene	U		0.000167	0.000500	0.000759	1	07/07/2017 16:45	WG995675
Total Xylene	U		0.000698	0.00150	0.00228	1	07/07/2017 16:45	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*100*				*75.0-128*		*07/07/2017 16:45*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		22.8	50.0	75.9	1	07/08/2017 03:28	WG996334
TPH C12 - C28	U		22.8	50.0	75.9	1	07/08/2017 03:28	WG996334
TPH C28 - C35	U		22.8	50.0	75.9	1	07/08/2017 03:28	WG996334
TPH C6 - C35	U		22.8	50.0	75.9	1	07/08/2017 03:28	WG996334
(S) o-Terphenyl	*102*				*70.0-130*		*07/08/2017 03:28*	WG996334

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	62.1		1	07/05/2017 09:51	WG995502

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	119		1.28	10.0	16.1	1	07/05/2017 20:42	WG994965

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000193	0.000500	0.000805	1	07/07/2017 17:07	WG995675
Toluene	U		0.000241	0.00500	0.00805	1	07/07/2017 17:07	WG995675
Ethylbenzene	U		0.000177	0.000500	0.000805	1	07/07/2017 17:07	WG995675
Total Xylene	U		0.000740	0.00150	0.00241	1	07/07/2017 17:07	WG995675
(S) a,a,a-Trifluorotoluene(PID)	*99.6*				*75.0-128*		*07/07/2017 17:07*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	58.6	J	24.1	50.0	80.5	1	07/08/2017 03:40	WG996334
TPH C12 - C28	1490		24.1	50.0	80.5	1	07/08/2017 03:40	WG996334
TPH C28 - C35	168		24.1	50.0	80.5	1	07/08/2017 03:40	WG996334
TPH C6 - C35	1720		24.1	50.0	80.5	1	07/08/2017 03:40	WG996334
(S) o-Terphenyl	*95.5*				*70.0-130*		*07/08/2017 03:40*	WG996334

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	68.9		1	07/05/2017 09:51	WG995502

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	135		1.15	10.0	14.5	1	07/05/2017 20:51	WG994965

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000174	0.000500	0.000725	1	07/07/2017 17:29	WG995675
Toluene	0.000463	B J	0.000218	0.00500	0.00725	1	07/07/2017 17:29	WG995675
Ethylbenzene	0.000458	B J	0.000160	0.000500	0.000725	1	07/07/2017 17:29	WG995675
Total Xylene	0.000768	B J	0.000667	0.00150	0.00218	1	07/07/2017 17:29	WG995675
(S) α,α,α-Trifluorotoluene(PID)	*104*				*75.0-128*		*07/07/2017 17:29*	WG995675

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		21.8	50.0	72.5	1	07/08/2017 03:53	WG996334
TPH C12 - C28	U		21.8	50.0	72.5	1	07/08/2017 03:53	WG996334
TPH C28 - C35	U		21.8	50.0	72.5	1	07/08/2017 03:53	WG996334
TPH C6 - C35	U		21.8	50.0	72.5	1	07/08/2017 03:53	WG996334
(S) o-Terphenyl	*99.6*				*70.0-130*		*07/08/2017 03:53*	WG996334

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1300		2.82	10.0	10.0	1	07/01/2017 10:52	WG994700

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Chloride	11.3		0.0519	1.00	1.00	1	07/06/2017 20:33	WG996156

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	07/05/2017 18:08	WG995679
Toluene	U		0.000412	0.00100	0.00100	1	07/05/2017 18:08	WG995679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	07/05/2017 18:08	WG995679
Total Xylene	0.000717	J	0.000510	0.00150	0.00150	1	07/05/2017 18:08	WG995679
(S) α,α,α-Trifluorotoluene(PID)	*103*				*80.0-121*		*07/05/2017 18:08*	WG995679

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		0.600	0.900	0.900	1	07/03/2017 11:30	WG994799
TPH C12 - C28	U		0.600	0.900	0.900	1	07/03/2017 11:30	WG994799
TPH C28 - C35	U		0.600	0.900	0.900	1	07/03/2017 11:30	WG994799
TPH C6 - C35	U		0.600	0.900	0.900	1	07/03/2017 11:30	WG994799
(S) o-Terphenyl	*91.6*				*70.0-130*		*07/03/2017 11:30*	WG994799

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	184		2.82	10.0	10.0	1	07/04/2017 09:49	WG994950

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Chloride	12.4		0.0519	1.00	1.00	1	07/06/2017 20:59	WG996156

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	07/05/2017 18:30	WG995679
Toluene	U		0.000412	0.00100	0.00100	1	07/05/2017 18:30	WG995679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	07/05/2017 18:30	WG995679
Total Xylene	U		0.000510	0.00150	0.00150	1	07/05/2017 18:30	WG995679
(S) a,a,a-Trifluorotoluene(PID)	*103*				*80.0-121*		*07/05/2017 18:30*	WG995679

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		0.600	0.900	0.900	1	07/03/2017 11:42	WG994799
TPH C12 - C28	U		0.600	0.900	0.900	1	07/03/2017 11:42	WG994799
TPH C28 - C35	U		0.600	0.900	0.900	1	07/03/2017 11:42	WG994799
TPH C6 - C35	U		0.600	0.900	0.900	1	07/03/2017 11:42	WG994799
(S) o-Terphenyl	*90.5*				*70.0-130*		*07/03/2017 11:42*	WG994799

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	108		2.82	10.0	10.0	1	07/04/2017 09:49	WG994950

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Chloride	8.12		0.0519	1.00	1.00	1	07/06/2017 21:25	WG996156

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	07/05/2017 18:52	WG995679
Toluene	0.000442	J	0.000412	0.00100	0.00100	1	07/05/2017 18:52	WG995679
Ethylbenzene	0.000173	J	0.000160	0.000500	0.000500	1	07/05/2017 18:52	WG995679
Total Xylene	0.000543	J	0.000510	0.00150	0.00150	1	07/05/2017 18:52	WG995679
(S) a,a,a-Trifluorotoluene(PID)	*102*				*80.0-121*		*07/05/2017 18:52*	WG995679

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		0.600	0.900	0.900	1	07/03/2017 11:55	WG994799
TPH C12 - C28	U		0.600	0.900	0.900	1	07/03/2017 11:55	WG994799
TPH C28 - C35	U		0.600	0.900	0.900	1	07/03/2017 11:55	WG994799
TPH C6 - C35	U		0.600	0.900	0.900	1	07/03/2017 11:55	WG994799
(S) o-Terphenyl	*83.7*				*70.0-130*		*07/03/2017 11:55*	WG994799

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	122		2.82	10.0	10.0	1	07/04/2017 09:49	WG994950

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Chloride	7.70		0.0519	1.00	1.00	1	07/06/2017 21:38	WG996156

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	07/05/2017 19:15	WG995679
Toluene	U		0.000412	0.00100	0.00100	1	07/05/2017 19:15	WG995679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	07/05/2017 19:15	WG995679
Total Xylene	U		0.000510	0.00150	0.00150	1	07/05/2017 19:15	WG995679
(S) α,α,α-Trifluorotoluene(PID)	*103*				*80.0-121*		*07/05/2017 19:15*	WG995679

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		0.600	0.900	0.900	1	07/03/2017 12:07	WG994799
TPH C12 - C28	U		0.600	0.900	0.900	1	07/03/2017 12:07	WG994799
TPH C28 - C35	U		0.600	0.900	0.900	1	07/03/2017 12:07	WG994799
TPH C6 - C35	U		0.600	0.900	0.900	1	07/03/2017 12:07	WG994799
(S) o-Terphenyl	*82.5*				*70.0-130*		*07/03/2017 12:07*	WG994799

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	110		2.82	10.0	10.0	1	07/04/2017 09:49	WG994950

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Chloride	7.75		0.0519	1.00	1.00	1	07/06/2017 22:17	WG996156

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	07/05/2017 19:37	WG995679
Toluene	U		0.000412	0.00100	0.00100	1	07/05/2017 19:37	WG995679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	07/05/2017 19:37	WG995679
Total Xylene	U		0.000510	0.00150	0.00150	1	07/05/2017 19:37	WG995679
(S) a,a,a-Trifluorotoluene(PID)	*102*				*80.0-121*		*07/05/2017 19:37*	WG995679

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		0.600	0.900	0.900	1	07/03/2017 12:19	WG994799
TPH C12 - C28	U		0.600	0.900	0.900	1	07/03/2017 12:19	WG994799
TPH C28 - C35	U		0.600	0.900	0.900	1	07/03/2017 12:19	WG994799
TPH C6 - C35	U		0.600	0.900	0.900	1	07/03/2017 12:19	WG994799
(S) o-Terphenyl	*84.1*				*70.0-130*		*07/03/2017 12:19*	WG994799

QUALITY CONTROL SUMMARY

L919411-24

Method Blank (MB)

(MB) R3231177-1 07/01/17 10:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	4.00	J	2.82	10.0

L918962-01 Original Sample (OS) • Duplicate (DUP)

(OS) L918962-01 07/01/17 10:52 • (DUP) R3231177-4 07/01/17 10:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1360	1400	1	2.91		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231177-2 07/01/17 10:52 • (LCSD) R3231177-3 07/01/17 10:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8180	8560	93.0	97.3	85.0-115			4.54	5

Method Blank (MB)

(MB) R3231737-1 07/04/17 09:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L919777-04 Original Sample (OS) • Duplicate (DUP)

(OS) L919777-04 07/04/17 09:49 • (DUP) R3231737-4 07/04/17 09:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1840	1850	1	0.678		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231737-2 07/04/17 09:49 • (LCSD) R3231737-3 07/04/17 09:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8660	98.5	98.4	85.0-115			0.115	5

QUALITY CONTROL SUMMARY

L919411-16

Method Blank (MB)

(MB) R3230570-1 07/01/17 13:58

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000700			

L919275-02 Original Sample (OS) • Duplicate (DUP)

(OS) L919275-02 07/01/17 13:58 • (DUP) R3230570-3 07/01/17 13:58

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.5	89.4	1	1.27		5

Laboratory Control Sample (LCS)

(LCS) R3230570-2 07/01/17 13:58

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L919411-04,18

Method Blank (MB)

(MB) R3230592-1 07/01/17 13:21

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L919350-01 Original Sample (OS) • Duplicate (DUP)

(OS) L919350-01 07/01/17 13:21 • (DUP) R3230592-3 07/01/17 13:21

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.1	97.6	1	0.504		5

Laboratory Control Sample (LCS)

(LCS) R3230592-2 07/01/17 13:21

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

QUALITY CONTROL SUMMARY

L919411-01,02,03,05,06,07,08,09

Method Blank (MB)

(MB) R3231228-1 07/05/17 13:22

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L919408-03 Original Sample (OS) • Duplicate (DUP)

(OS) L919408-03 07/05/17 13:22 • (DUP) R3231228-3 07/05/17 13:22

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.1	83.3	1	2.61		5

Laboratory Control Sample (LCS)

(LCS) R3231228-2 07/05/17 13:22

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L919411-10,11,12,13,14,15,17,19,20,21

Method Blank (MB)

(MB) R3231220-1 07/05/17 13:11

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L919411-10 Original Sample (OS) • Duplicate (DUP)

(OS) L919411-10 07/05/17 13:11 • (DUP) R3231220-3 07/05/17 13:11

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	77.6	76.9	1	0.921		5

Laboratory Control Sample (LCS)

(LCS) R3231220-2 07/05/17 13:11

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L919411-22,23

Method Blank (MB)

(MB) R3231197-1 07/05/17 09:51

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L919411-22 Original Sample (OS) • Duplicate (DUP)

(OS) L919411-22 07/05/17 09:51 • (DUP) R3231197-3 07/05/17 09:51

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	62.1	62.5	1	0.603		5

Laboratory Control Sample (LCS)

(LCS) R3231197-2 07/05/17 09:51

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L919411-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19

Method Blank (MB)

(MB) R3231635-1 07/06/17 14:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L919411-16 Original Sample (OS) • Duplicate (DUP)

(OS) L919411-16 07/07/17 01:28 • (DUP) R3231635-7 07/07/17 01:49

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	78.1	58.5	1	29	J3	15

L919411-05 Original Sample (OS) • Duplicate (DUP)

(OS) L919411-05 07/07/17 11:28 • (DUP) R3231635-8 07/07/17 11:49

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	441	474	1	7		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231635-2 07/06/17 14:57 • (LCSD) R3231635-3 07/06/17 15:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	199	199	100	100	80-120			0	15

L919411-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919411-12 07/06/17 22:38 • (MS) R3231635-5 07/06/17 22:59 • (MSD) R3231635-6 07/06/17 23:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	661	341	960	961	94	94	1	80-120			0	15

QUALITY CONTROL SUMMARY

L919411-20,21,22,23

Method Blank (MB)

(MB) R3231230-4 07/05/17 19:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	2.39	J	0.795	10.0

L919411-20 Original Sample (OS) • Duplicate (DUP)

(OS) L919411-20 07/05/17 20:15 • (DUP) R3231230-6 07/05/17 20:24

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	76.6	88.5	1	14		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231230-5 07/05/17 19:39 • (LCSD) R3231230-9 07/06/17 07:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	198	200	99	100	80-120			1	15

L919411-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919411-23 07/05/17 20:51 • (MS) R3231230-7 07/05/17 21:00 • (MSD) R3231230-8 07/05/17 21:09

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	725	135	778	730	89	82	1	80-120			6	15

QUALITY CONTROL SUMMARY

L919411-24,25,26,27,28

Method Blank (MB)

(MB) R3231553-1 07/06/17 18:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00

L919411-24 Original Sample (OS) • Duplicate (DUP)

(OS) L919411-24 07/06/17 20:33 • (DUP) R3231553-4 07/06/17 20:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	11.3	11.4	1	0		15

L919417-04 Original Sample (OS) • Duplicate (DUP)

(OS) L919417-04 07/06/17 22:55 • (DUP) R3231553-6 07/06/17 23:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.08	9.09	1	0		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231553-2 07/06/17 18:50 • (LCSD) R3231553-3 07/06/17 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.4	40.3	101	101	80-120			0	15

L919411-25 Original Sample (OS) • Matrix Spike (MS)

(OS) L919411-25 07/06/17 20:59 • (MS) R3231553-5 07/06/17 21:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	12.4	65.0	105	1	80-120	

L919417-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919417-06 07/06/17 23:34 • (MS) R3231553-7 07/06/17 23:46 • (MSD) R3231553-8 07/06/17 23:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	9.63	56.6	57.6	94	96	1	80-120			2	15

QUALITY CONTROL SUMMARY

L919411-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3231291-3 07/05/17 10:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000170	J	0.000150	0.00500
Ethylbenzene	0.000202	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*103*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231291-1 07/05/17 09:40 • (LCSD) R3231291-2 07/05/17 10:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0497	0.0488	99.5	97.6	71.0-121			1.89	20
Toluene	0.0500	0.0498	0.0482	99.5	96.3	72.0-120			3.27	20
Ethylbenzene	0.0500	0.0500	0.0487	100	97.4	76.0-121			2.63	20
Total Xylene	0.150	0.147	0.143	98.1	95.2	75.0-124			3.03	20
(S) a,a,a-Trifluorotoluene(PID)				*100*	*99.4*	*75.0-128*				

QUALITY CONTROL SUMMARY

L919411-12,13,14,15,16,17,18,19,20,21,22,23

Method Blank (MB)

(MB) R3231815-3 07/07/17 12:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000313	J	0.000150	0.00500
Ethylbenzene	0.000148	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*102*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231815-1 07/07/17 10:21 • (LCSD) R3231815-2 07/07/17 10:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0477	0.0479	95.4	95.8	71.0-121			0.340	20
Toluene	0.0500	0.0480	0.0473	96.0	94.6	72.0-120			1.44	20
Ethylbenzene	0.0500	0.0480	0.0481	95.9	96.2	76.0-121			0.260	20
Total Xylene	0.150	0.141	0.141	94.2	93.7	75.0-124			0.570	20
(S) a,a,a-Trifluorotoluene(PID)				*100*	*101*	*75.0-128*				

QUALITY CONTROL SUMMARY

L919411-24,25,26,27,28

Method Blank (MB)

(MB) R3231417-3 07/05/17 12:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) α,α,α-Trifluorotoluene(PID)	*103*			*80.0-121*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231417-1 07/05/17 11:01 • (LCSD) R3231417-2 07/05/17 11:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0455	0.0446	91.0	89.2	71.0-121			2.01	20
Toluene	0.0500	0.0463	0.0447	92.7	89.3	72.0-120			3.69	20
Ethylbenzene	0.0500	0.0480	0.0465	96.0	93.1	75.0-122			3.10	20
Total Xylene	0.150	0.146	0.141	97.0	93.8	74.0-124			3.35	20
(S) α,α,α-Trifluorotoluene(PID)				*102*	*102*	*80.0-121*				

Method Blank (MB)

(MB) R3230736-1 07/03/17 10:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH C6 - C12	U		0.600	0.900
TPH C12 - C28	U		0.600	0.900
TPH C28 - C35	U		0.600	0.900
TPH C6 - C35	U		0.600	0.900
(S) o-Terphenyl	*87.5*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230736-2 07/03/17 11:05 • (LCSD) R3230736-3 07/03/17 11:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH C6 - C12	41.7	40.5	41.5	97.3	99.6	75.0-125			2.31	20
TPH C12 - C28	41.7	42.9	43.5	103	105	75.0-125			1.57	20
TPH C6 - C35	83.3	83.4	85.0	100	102	75.0-125			1.90	20
(S) o-Terphenyl				*94.1*	*95.7*	*70.0-130*				

Method Blank (MB)

(MB) R3231817-1 07/07/17 16:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH C6 - C12	U		15.0	50.0
TPH C12 - C28	U		15.0	50.0
TPH C28 - C35	U		15.0	50.0
TPH C6 - C35	U		15.0	50.0
(S) o-Terphenyl	*107*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231817-2 07/07/17 17:12 • (LCSD) R3231817-3 07/07/17 17:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH C6 - C12	250	267	264	107	106	75.0-125			0.930	20
TPH C12 - C28	250	252	252	101	101	75.0-125			0.180	20
TPH C6 - C35	500	519	516	104	103	75.0-125			0.580	20
(S) o-Terphenyl				*105*	*103*	*70.0-130*				

L919411-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919411-20 07/07/17 23:22 • (MS) R3231817-4 07/07/17 23:34 • (MSD) R3231817-5 07/07/17 23:47

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH C6 - C12	359	U	372	365	104	102	1	75.0-125			2.08	20
TPH C12 - C28	359	U	347	351	96.7	97.6	1	75.0-125			0.960	20
TPH C6 - C35	718	U	720	715	100	99.6	1	75.0-125			0.600	20
(S) o-Terphenyl					*106*	*113*		*70.0-130*				

Semi-Volatile Organic Compounds (GC) by Method TX 1005

L919411-21,22,23

Method Blank (MB)

(MB) R3231818-1 07/07/17 17:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH C6 - C12	U		15.0	50.0
TPH C12 - C28	U		15.0	50.0
TPH C28 - C35	U		15.0	50.0
TPH C6 - C35	U		15.0	50.0
(S) o-Terphenyl	*99.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231818-2 07/07/17 17:51 • (LCSD) R3231818-3 07/07/17 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH C6 - C12	250	279	271	112	108	75.0-125			3.09	20
TPH C12 - C28	250	261	255	104	102	75.0-125			2.11	20
TPH C6 - C35	500	540	526	108	105	75.0-125			2.63	20
(S) o-Terphenyl				*104*	*103*	*70.0-130*				

L919386-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919386-02 07/08/17 02:51 • (MS) R3231818-4 07/08/17 03:03 • (MSD) R3231818-5 07/08/17 03:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH C6 - C12	302	U	320	326	106	108	1	75.0-125			1.67	20
TPH C12 - C28	302	U	301	312	99.5	103	1	75.0-125			3.50	20
TPH C6 - C35	605	U	622	637	103	105	1	75.0-125			2.50	20
(S) o-Terphenyl					*109*	*107*		*70.0-130*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Sample Detection Limit.
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

Cp
[2] Tc
[3] Ss
[4] Cn
[5] Sr
[6] Qc
[7] Gl
[8] Al
[9] Sc

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

Company Name/Address:
New Tech Carr
911 Regional Park Drive
Houston, TX 77060

Billing Information:
NTG Environmental
911 Regional Park Drive
Houston, TX 77060

Report to: Trey Charanza and RSC staff

Email To: tcharanza@ntgbbl.com and RSC staff

Project Description: SPIK-R1704414

City/State Collected: Fort Bend County, TX

Phone: 281-872-9300
Fax:

Client Project #: SPIK-R1704414

Lab Project #:

Collected by (print): Trey Charanza

Site/Facility ID #:

P.O. #:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 5

ESC LAB SCIENCES
YOUR LAB OF CHOICE
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 191941

B131

Acctnum: CEGHTX
Template:
Prelogin:
TSR: Mark W. Beasley
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX (8021 B)	TPH (TX 1005)	Chloride						HOLD	***QCMODCN***	Rem./Contaminant	Sample # (lab only)
SB1 0-1	Grab	SS		6/26/2017	12:15	2	X	X	X									-01
SB1 2-3					12:20													-02
SB1 4-5					12:25													-03
SB2 0-1					14:15													-04
SB2 2-3					14:20													-05
SB3 surface					14:45													-06
SB4 0-1					15:05													-07
SB8 2-3	Grab	SS		6/26/2017	16:40	2	X	X	X									-08
																		-09 TO

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold # 6-089

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	6/28/17	1627			OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.5 °C Bottles Received: 86	COC Seal Intact: ___Y ___N ✓ NA
	6/28/17	17:00			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6-29-17 Time: 0845	pH Checked: / NCF:
			Marina Malone		

ESCHTX

Company Name/Address: NTGE, 911 Regional Park Drive, Houston, TX 77060

Billing Information: Accounts Payable, 911 Regional Park Drive, Houston, TX 77060

Report to: Trey Charanza and RSC staff

Email To: tcharanza@ntglobal.com and RSC staff

Project Description: SPIK-R1704414

City/State Collected: Fort Bend County, TX

Phone:

Fax:

Client Project #: SPIK-R1704414

Lab Project #

Collected by (print): Trey Charanza

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No ___Yes

FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES — YOUR LAB OF CHOICE
12065 Lebanon Rd, Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L#: 191941

Table #:

Acctnum: CECHTX

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX (8021B)	TPH (TX1005)	Chloride						Hold	Rem./Contaminant	Sample # (lab only)
SB5 0-1	Grab	SS		6/26/2017	15:25	2	X	X	X								-09
SB6 0-1					15:50												-10
SB7 0-1					16:05												-11
SB8 0-1					16:35												-12
SB9 0-1				6/27/2017	10:55												-13
SB9 1-2					11:00										X		
SB10 0-1					16:40		X	X	X								-14
SB10 1-2					16:40										X		
SB11 0-1					16:45		X	X	X								-15
SB11 1-2					16:45										X		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
[signature]	6/28/17	1627	[signature]		OK
Relinquished by: (Signature) [signature]	Date: 6/27/17	Time: 17:00	Received by: (Signature) [signature]	Temp: 4.4 °C Bottles Received:	COC Seal Intact: ___Y ___N K/NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

ESCHTX

Chain of Custody — Page 3 of 5

ESC LAB SCIENCES — Your Lab of Choice

12065 Lebanon Rd, Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Company Name/Address: NTGE, 911 Regional Park Drive, Houston, TX 77060

Billing Information: Accounts Payable, 911 Regional Park Drive, Houston, TX 77060

Report to: Trey Charanza and RSC staff

Email To: tcharanza@ntglobal.com and RSC staff

Project Description: SPIK-R1704414

City/State Collected: Fort Bend County, TX

Phone:
Fax:

Client Project #: SPIK-R1704414

Lab Project #:

Collected by (print): Trey Charanza

Site/Facility ID #:

P.O. #:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	BTEX (8021B)	TPH (TX 1005)	Chloride							Hold	Rem./Contaminant	Sample # (lab only)
SB12 0-1	Grab	SS		6/27/2017	17:20	2	X	X	X									-16
SB12 1-2					17:20											X		
SB13 0-1					18:05		X	X	X									-17
SB14 0-1					18:10		X	X	X									-18
SB14 1-2					18:15											X		
SB15 0-1					18:20		X	X	X									-19
SB15 1-2					18:25											X		
SB16 0-1					19:05		X	X	X									-20
SB16 1-2					19:10											X		
SB17 0-1					19:30		X	X	X									-21

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #:

Relinquished by: (Signature) — Date: 6/28/17 — Time: 1627 — Received by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Relinquished by: (Signature) — Date: 6/28/17 — Time: 17:30 — Received by: (Signature)

Temp: 0.5 °C — Bottles Received:

Relinquished by: (Signature) — Date: — Time: — Received for lab by: (Signature) — Date: — Time:

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N X NA

pH Checked: — NCF:

L# 191941

Table #:

Acctnum: ESCHTX

Template:

Prelogin:

TSR:

PB:

Shipped Via:

ESCHTX

Company Name/Address: NTGE, 911 Regional Park Drive, Houston, TX 77060

Billing Information: Accounts Payable, 911 Regional Park Drive, Houston, TX 77060

Report to: Trey Charanza and RSC staff

Email To: tcharanza@ntglobal.com and RSC staff

Project Description: SPIK-R1704414

City/State Collected: Fort Bend County, TX

Phone:

Fax:

Client Project #: SPIK-R1704414

Lab Project #:

Collected by (print): Trey Charanza

Site/Facility ID #:

P.O. #:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No ___Yes

FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES — YOUR LAB OF CHOICE
12065 Lebanon Rd, Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

LIF: 191941

Table #:

Acctnum: ESCHTX

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX (8021 B)	TPH (TX 1005)	Chloride							Hold	Rem./Contaminant	Sample # (lab only)
SB18 0-1	Grab	SS		6/27/2017	19:35	2	X	X	X									22
SB19 0-1					20:05		X	X	X									23
SB19 1-2					20:05											X		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	6/28/17	16:27	
Relinquished by: (Signature)	6/28/17	17:00	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____

Temp: °C Bottles Received:

Date: Time:

Hold #:

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ✓ NA

pH Checked: NCF:

ESCHTX

Company Name/Address: NTGE, 911 Regional Park Drive, Houston, TX 77060

Billing Information: Accounts Payable, 911 Regional Park Drive, Houston, TX 77060

Report to: Trey Charanza and RSC Staff

Email To: tcharanza@ntglobal.com and RSC Staff

Project Description: SPIK-R1704414

City/State Collected: Fort Bend County, TX

Phone:

Fax:

Client Project #: SPIK-R1704414

Lab Project #

Collected by (print): Trey Charanza

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified): ___ Same Day ...200%; ___ Next Day ...100%; ___ Two Day ...50%; ___ Three Day ...25%

Date Results Needed: Standard

Email? ___No ___Yes

FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 5 of 5

ESC LABS SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd, Mount Juliet, TN 37122, Phone: 615-758-5858, Phone: 800-767-5859, Fax: 615-758-5859

L# 179140

Table #

Acctnum: ESGHTX

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40ml Amb-HCl	Chloride, TDS 250ml HDPE-No Pres	TPHTX 40ml Amb-HCl-BT	Rem./Contaminant	Sample # (lab only)
SW1	Grab	GW		6/26/2017	17:45	8	X	X	X		-24
SW2				6/27/2017	9:55						-25
SW3					14:10						-26
SW4					15:10						-27
SW5					15:45						-28

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ____

pH ____ Temp ____

Remarks:

Flow ____ Other ____

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	6/28/17	16:27			pH
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.5 °C Bottles Received:	COC Seal Intact: ___Y ___N ✓ NA
	6/28/17	17:00			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF

ESCHTX

ESC LAB SCIENCES
Cooler Receipt Form

Client:	CEGHTX	SDG#	L919411
Cooler Received/Opened On: 06/29/2017		Temperature:	0.5
Received By: Marina Malone			
Signature: Marina Malone			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	–		
COC Signed / Accurate?		–	
Bottles arrive intact?		–	
Correct bottles used?		–	
Sufficient volume sent?		–	
If Applicable			
VOA Zero headspace?		–	
Preservation Correct / Checked?			

ANALYTICAL REPORT

July 27, 2017

myESC
REAL TIME DATA ACCESS

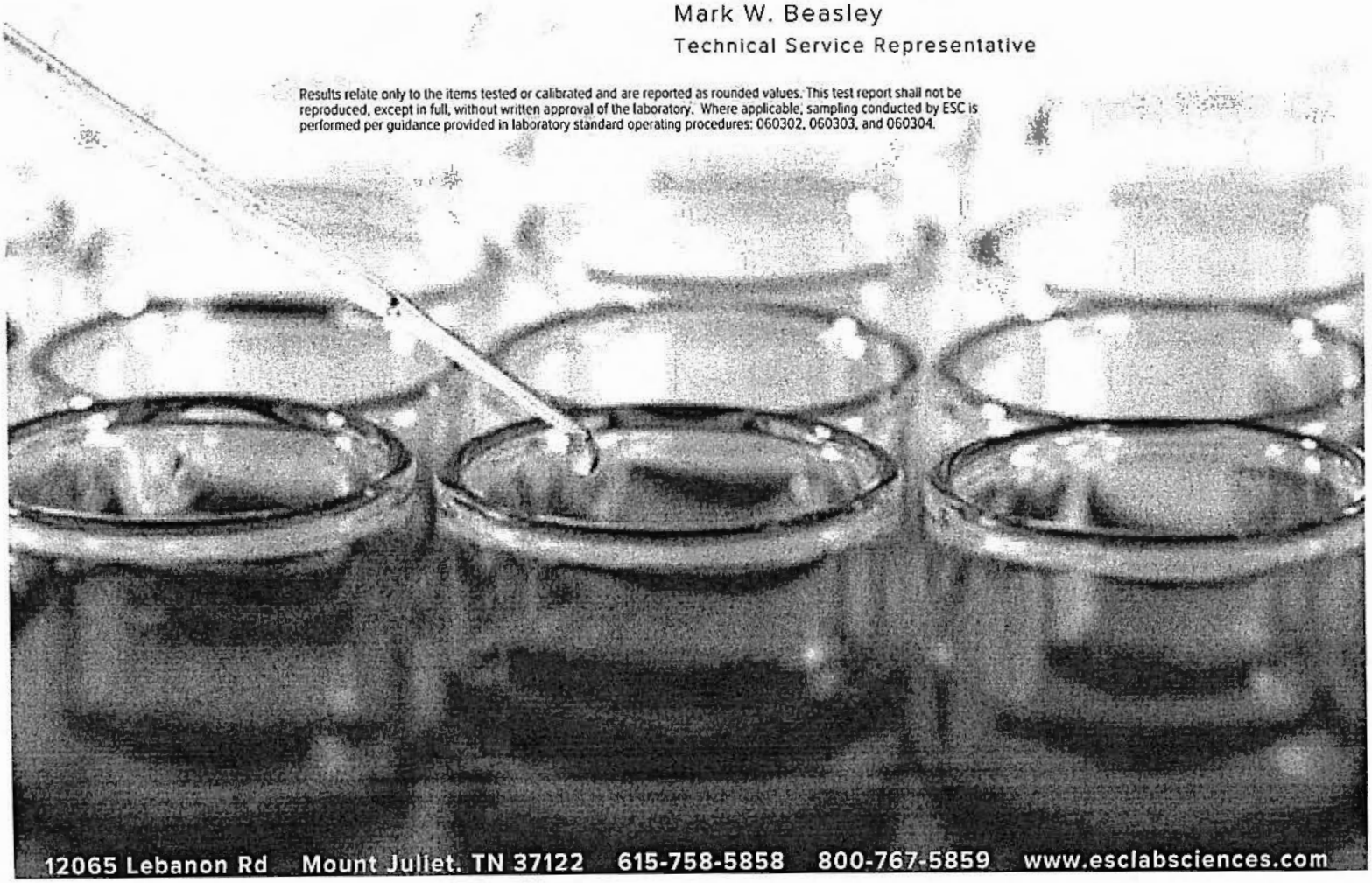
NTGE

Sample Delivery Group:	L924080
Samples Received:	07/21/2017
Project Number:	SPIK-R1704414
Description:	Edwin Thuesen Lease
Report To:	John Wilson 911 Regional Park Dr Houston, TX 77060

Entire Report Reviewed By:

Mark W. Beasley
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SB 20 0-1 L924080-01 Solid

Collected by: John Wilson | Collected date/time: 07/20/17 11:20 | Received date/time: 07/21/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1001857	1	07/24/17 09:20	07/24/17 09:29	MLW
Wet Chemistry by Method 9056A	WG1001486	10	07/24/17 09:30	07/24/17 12:45	DR

SB 21 0-1 L924080-02 Solid

Collected by: John Wilson | Collected date/time: 07/20/17 11:40 | Received date/time: 07/21/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1001857	1	07/24/17 09:20	07/24/17 09:29	MLW
Wet Chemistry by Method 9056A	WG1001486	1	07/24/17 09:30	07/24/17 12:54	DR

SB 22 0-1 L924080-03 Solid

Collected by: John Wilson | Collected date/time: 07/20/17 12:23 | Received date/time: 07/21/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1001857	1	07/24/17 09:20	07/24/17 09:29	MLW
Wet Chemistry by Method 9056A	WG1001486	10	07/24/17 09:30	07/24/17 13:03	DR

SB 23 0-1 L924080-04 Solid

Collected by: John Wilson | Collected date/time: 07/20/17 12:34 | Received date/time: 07/21/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1001858	1	07/24/17 08:55	07/24/17 09:04	MLW
Wet Chemistry by Method 9056A	WG1001486	10	07/24/17 09:30	07/24/17 13:12	DR

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	63.8		1	07/24/2017 09:29	WG1001857

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	5920		12.5	10.0	157	10	07/24/2017 12:45	WG1001486

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.3		1	07/24/2017 09:29	WG1001857

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	543		1.10	10.0	13.8	1	07/24/2017 12:54	WG1001486

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.8		1	07/24/2017 09:29	WG1001857

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	4680		10.9	10.0	137	10	07/24/2017 13:03	WG1001486

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.5		1	07/24/2017 09:04	WG1001858

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	3230		9.76	10.0	123	10	07/24/2017 13:12	WG1001486

QUALITY CONTROL SUMMARY

L924080-01,02,03

Method Blank (MB)

(MB) R3235799-1 07/24/17 09:29

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00130			

L924080-01 Original Sample (OS) • Duplicate (DUP)

(OS) L924080-01 07/24/17 09:29 • (DUP) R3235799-3 07/24/17 09:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	63.8	64.8	1	1.48		5

Laboratory Control Sample (LCS)

(LCS) R3235799-2 07/24/17 09:29

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3235797-1 07/24/17 09:04

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L924039-01 Original Sample (OS) • Duplicate (DUP)

(OS) L924039-01 07/24/17 09:04 • (DUP) R3235797-3 07/24/17 09:04

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.9	78.1	1	1.03		5

Laboratory Control Sample (LCS)

(LCS) R3235797-2 07/24/17 09:04

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

QUALITY CONTROL SUMMARY

L924080-01,02,03,04

Method Blank (MB)

(MB) R3235629-1 07/24/17 10:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L923901-01 Original Sample (OS) • Duplicate (DUP)

(OS) L923901-01 07/24/17 11:06 • (DUP) R3235629-4 07/24/17 11:15

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	42.4	42.7	1	1		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235629-2 07/24/17 10:16 • (LCSD) R3235629-3 07/24/17 10:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	191	187	96	94	80-120			2	15

L923982-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923982-01 07/24/17 12:00 • (MS) R3235629-5 07/24/17 12:09 • (MSD) R3235629-6 07/24/17 12:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	826	1450	1480	125	130	1	80-120	E J5	E J5	2	15

Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Sample Detection Limit.
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

NTCEG - Spring, TX

911 Regional Park Dr
Houston, TX 77060

Billing Information:
Accounts Payable
911 Regional Park Dr
Houston, TX 77060

Report to: Edwin Charanza

Email To: RSC Staff

Project Description: Edwin Thuesen Lease

City/State Collected: Fort Bend County, Texas

Phone: 281-872-9300
Fax:

Client Project #: SPIK-R1704414

Lab Project #

Collected by (print): John Wilson

Site/Facility ID #: Spike Release

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative: Chloride

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 924080
D003

Acctnum: CEGHTX
Template:
Prelogin:
TSR: 134 - Mark W. Beasley
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chloride	Rem./Contaminant	Sample # (lab only)
SB 20 0-1'	Grab	SS	0-1'	7/20/17	11:20	1	✓		01
SB 21 0-1'	Grab	SS	0-1'	7/20/17	11:40	1	✓		02
SB 22 0-1'	Grab	SS	0-1'	7/20/17	12:23	1	✓		03
SB 23 0-1'	Grab	SS	0-1'	7/20/17	12:34	1	✓		04
END									

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

Remarks:

pH ___ Temp ___
Flow ___ Other ___

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ___
	7/20/17	15:12		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
	7/20/17	17:00	SBS / 4702 4039	2.1 8
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				7-21-17 0845

Condition: (lab use only)

COC Seal Intact: ___Y ___N ✓NA

pH Checked: NCF:

ESCHTX

ESC LAB SCIENCES
Cooler Receipt Form

Client:	CeGHTx	SDG#	S24680
Cooler Received/Opened On: 7/ 21 /2017		Temperature:	2.1
Received By: Jon Deboard			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

ANALYTICAL REPORT

July 27, 2017

NTGE

Sample Delivery Group:	L924080
Samples Received:	07/21/2017
Project Number:	SPIK-R1704414
Description:	Edwin Thuesen Lease
Report To:	John Wilson 911 Regional Park Dr Houston, TX 77060

Entire Report Reviewed By:

Mark W. Beasley
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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ONE LAB. NATIONWIDE.

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SB 20 0-1 L924080-01 Solid

Collected by: John Wilson | Collected date/time: 07/20/17 11:20 | Received date/time: 07/21/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1001857	1	07/24/17 09:20	07/24/17 09:29	MLW
Wet Chemistry by Method 9056A	WG1001486	10	07/24/17 09:30	07/24/17 12:45	DR

SB 21 0-1 L924080-02 Solid

Collected by: John Wilson | Collected date/time: 07/20/17 11:40 | Received date/time: 07/21/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1001857	1	07/24/17 09:20	07/24/17 09:29	MLW
Wet Chemistry by Method 9056A	WG1001486	1	07/24/17 09:30	07/24/17 12:54	DR

SB 22 0-1 L924080-03 Solid

Collected by: John Wilson | Collected date/time: 07/20/17 12:23 | Received date/time: 07/21/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1001857	1	07/24/17 09:20	07/24/17 09:29	MLW
Wet Chemistry by Method 9056A	WG1001486	10	07/24/17 09:30	07/24/17 13:03	DR

SB 23 0-1 L924080-04 Solid

Collected by: John Wilson | Collected date/time: 07/20/17 12:34 | Received date/time: 07/21/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1001858	1	07/24/17 08:55	07/24/17 09:04	MLW
Wet Chemistry by Method 9056A	WG1001486	10	07/24/17 09:30	07/24/17 13:12	DR

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	63.8		1	07/24/2017 09:29	WG1001857

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	5920		12.5	10.0	157	10	07/24/2017 12:45	WG1001486

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.3		1	07/24/2017 09:29	WG1001857

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	543		1.10	10.0	13.8	1	07/24/2017 12:54	WG1001486

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.8		1	07/24/2017 09:29	WG1001857

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	4680		10.9	10.0	137	10	07/24/2017 13:03	WG1001486

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.5		1	07/24/2017 09:04	WG1001858

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	SDL (dry) mg/kg	Unadj. MQL mg/kg	MQL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	3230		9.76	10.0	123	10	07/24/2017 13:12	WG1001486

QUALITY CONTROL SUMMARY

L924080-01,02,03

Method Blank (MB)

(MB) R3235799-1 07/24/17 09:29

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00130			

L924080-01 Original Sample (OS) • Duplicate (DUP)

(OS) L924080-01 07/24/17 09:29 • (DUP) R3235799-3 07/24/17 09:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	63.8	64.8	1	1.48		5

Laboratory Control Sample (LCS)

(LCS) R3235799-2 07/24/17 09:29

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3235797-1 07/24/17 09:04

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L924039-01 Original Sample (OS) • Duplicate (DUP)

(OS) L924039-01 07/24/17 09:04 • (DUP) R3235797-3 07/24/17 09:04

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.9	78.1	1	1.03		5

Laboratory Control Sample (LCS)

(LCS) R3235797-2 07/24/17 09:04

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

QUALITY CONTROL SUMMARY

L924080-01,02,03,04

Method Blank (MB)

(MB) R3235629-1 07/24/17 10:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L923901-01 Original Sample (OS) • Duplicate (DUP)

(OS) L923901-01 07/24/17 11:06 • (DUP) R3235629-4 07/24/17 11:15

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	42.4	42.7	1	1		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235629-2 07/24/17 10:16 • (LCSD) R3235629-3 07/24/17 10:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	191	187	96	94	80-120			2	15

L923982-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923982-01 07/24/17 12:00 • (MS) R3235629-5 07/24/17 12:09 • (MSD) R3235629-6 07/24/17 12:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	826	1450	1480	125	130	1	80-120	E J5	E J5	2	15

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Sample Detection Limit.
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

NTCEG - Spring, TX

911 Regional Park Dr
Houston, TX 77060

Billing Information:
Accounts Payable
911 Regional Park Dr
Houston, TX 77060

Report to: Edwin Charanza

Email To: RJC Staff

Project Description: Edwin Thuesen Lease

City/State Collected: Fort Bend County, Texas

Phone: 281-872-9300
Fax:

Client Project #: SPIK - R1704414

Lab Project #

Collected by (print): John Wilson

Site/Facility ID #: Spike Release

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative: Chloride

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chloride	Rem./Contaminant	Sample # (lab only)
SB 20 0-1'	Grab	SS	0-1'	7/20/17	11:20	1	✓		01
SB 21 0-1'	Grab	SS	0-1'	7/20/17	11:40	1	✓		02
SB 22 0-1'	Grab	SS	0-1'	7/20/17	12:23	1	✓		03
SB 23 0-1'	Grab	SS	0-1'	7/20/17	12:34	1	✓		04
END									

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

LR 724080
D003

Account: CEGHTX
Template:
Prelogin:
TSR: 134 - Mark W. Beasley
PB:
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	7/20/17	15:12	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	7/20/17	17:00	SBS / 4702-4039
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____

Temp: 2.1 °C Bottles Received: 4

Date: 7-21-17 Time: 0845

Hold #

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

ESCHTX

ESC LAB SCIENCES
Cooler Receipt Form

Client: Cegitx	SDG#	524680	
Cooler Received/Opened On: 7/ 21 /2017	Temperature:	2.1	
Received By: Jon Deboard			
Signature: J Deboard			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			