

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

**WATER LINE REPLACEMENT IN DODSON AREA
HOUSTON, HARRIS COUNTY, TEXAS**

WBS NO. S-000035-0205-3



PREPARED FOR:
**KUO &
ASSOCIATES, INC.**

BY:
**ASSOCIATED TESTING LABORATORIES, INC.
HOUSTON, TEXAS**

**REPORT NO E15-103
MARCH 2015**

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RE: PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

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EXECUTIVE SUMMARYÁ

ATL] ^íí [{ ^áÁéÁŠá æ^áÁÜ@é^ÁÓÓ } çá [] { ^ } çÁUá^ÁÉ•••• { ^ } óÓUÓÉÁí |Á@Á
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- During the Phase II ESA, groundwater was collected at six (6) of the twelve (12) sites by installing 1-inch temporary wells. The wells were pulled, plugged and abandoned following sample collection.

The following provides a summary of the soil and groundwater laboratory analytical results for the REC locations at:

- Volatile organic compounds and total petroleum hydrocarbons in soil or groundwater samples were reported to be detected in the laboratory sample detection limit or non-detect at the associated REC locations:
 1. 7702 Eastex Freeway, Houston, TX.
 2. Homestead Road, Houston, TX.
- Based on the laboratory analytical results, no soil concentrations exceed TCEQ TRRP Total Soil Combined (^{Tot}Soil_{Comb}) Protective Concentration Levels (PCLs) for a 0.5-acre residential use and are not a concern to construction workers. Additionally, no soil exceeds TCEQ TRRP Groundwater Soil Protective (^{GW}Soil_{Ing}) PCLs.
 - Groundwater collected at the following locations had detections:
 1. 7702 Eastex Freeway, Houston, TX.
 2. 4902 Laura Koppe, Houston, TX.

RECOMMENDATIONS

ATL performed a Limited Phase II Environmental Site Assessment (ESA) for the Water Line Replacement in Dodson Area in Houston, Texas. Based on field observations and soil laboratory analytical results, the following is noted:

- Soil conditions are not a concern to construction workers. Based on the PID readings, air monitoring is required at the southern extent of the 7702 Eastex Freeway REC location and at the western extent of the work being performed in Parker Road. Based on the Phase II ESA results, additional environmental investigation work is not warranted. Additionally, the following is noted for the REC locations:

7702 Eastex Freeway

- Due to the minor soil laboratory analytical detections in soil boring TW-05, the area is a potential contaminated area (PPCA).
- Additionally, a TPH (C6-C12) detection of 0.102 mg/L was reported in the laboratory analytical results from groundwater sample from boring TW-05. The TPH concentration exceeds the TCEQ TRRP Groundwater (^{GW}GW_{Ing}) PCLs of 0.98 mg/L for TPH. Due to this laboratory analytical detection, the area shall be defined as a PPCA. Special soil and groundwater handling practices will be required at the REC location.

Groundwater shall be contained, sampled, discharged, or disposed as appropriate using applicable permits. Solvent resistant piping and gaskets are required at this location. The station numbers are as follows:

The Station Nos. are from 4+50 to 5+25 (Eastex Fwy. frontage).

Clarington Street

- An ethyl-benzene concentration of 0.0026 mg/L was reported in the laboratory analytical results from groundwater sample from boring TW-06. Due to this laboratory analytical detection, the area shall be defined as a PPCA. Special groundwater handling practices will be required at the REC location. Solvent resistant piping and gaskets are required at this location. The station numbers are as follows:

The Station Nos. are from 10+00 to 11+00 (Clarington Street).

Parker Road

- Due to the minor soil laboratory analytical detections in soil boring SB-15, the area is a PPCA. Low level detections of methylene chloride (0.0072 mg/L) and n-Propylbenzene (0.011 mg/kg) were reported in SB-15. Solvent resistant piping and gaskets are required at this location. The station numbers are as follows:

The Station Nos. are from 11+00 to 12+00 (Parker Road).

Regards,



Jasbir Singh, PE
President

5.0 SOIL LABORATORY ANALYTICAL RESULTS

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5.1 LABORATORY ANALYTICAL METHODS

Volatile Organic Compounds (VOCs) or Methyl tert-butyl ether/benzene, toluene, ethyl-benzene, and xylene (MTBE/BTEX) by SW-846 EPA Method 8021B:

V @ A ae [| ae | ^ A ae ae . a A [] | ^ . A ae ae A @ [| ae | * | ae | A O D A ^ ~ a] ^ a A ae A @ d a] a ae } A ^ c & d | A c | a d | ^ c a A [] a ~ & c a A ^ c & d | . A A a ^ c & a a A ~ ae ca A c | a A * | ae a A [| ae | A | * ae a A & { [] ~ } a . A A ae [a A | A ae | A . ae] | ^ E A O [[] ~ } a . A } A c | A a a a & ^ a A ^ c | a A c | a ae a A [c] . A . ^ a A a i ^ A & ^ ae a * A ae a A | a a * A | [& . . . E ^ a ^ a A ^ d | ^ { A | a ~ & c a ~ & a e A ae [a ^ A ae a A a a ^ | E a ae a A | c | . E A V @ A { ^ c | a A ae ae [A a ^ A ^ . ^ a A c | A c . a A | A T V O O B V O Y A & { [] ~ } a . E A @ A ^ a A [| a] A ^ c | A } ca A X U C A a c A V @ . ^ A & { [] ~ } a . A ae ^ A & [{ [] A & { [] } ^ } . A | A [| . A | | ~ | ae a A * ae [| a ^ . E a ae a A c | a A | ^ . ^ } & A a A ae | ^ | a e ^ A a a ae | A c | a A ae [| a ^ A ^ | ae ^ A c | a & ~ | | a E A

Total Petroleum Hydrocarbons (TPH) by TCEQ Method 1005: V @ A | ae [| ae | ^ A ae ae . a A ca ^ . A O O A ~ a] ^ a A ae A @ a ae ^ A ae } a ae } A ^ c & d | A c | a d | ^ c a A [] a ~ ae ca A c | a A ^ a A ^ d | ^ { A & { [] ~ } a . A | A ^ | a ae ^ . A A @ A ae * A A [{ A O I A e A O G E A a A ae [a A | A * |] ~ } a, ae | A ^ a a { E A U ^ . | c | a A a A c | A G D a c | A c | a A c | a a a c | a & a a * ^ . E A [{ A O I A e A O F G E A O F G A c | A O G A ae a A O G A e A O H E V @ A ae | . A [{ ^ A a c |] | ^ ca a } A e A e A c | A [. . a | A ^ | ^ & A ^ c | a A ^ | ae ^ E a ae ^ a A [] } A c | A a a ae a A & a a [] A ae * ^ E A U ^ d | ^ { A @ a | : & a a [] . A ae ^ A [c | a ^ & . . ae a A c e ae a | ~ . A | A c | a E A V @ A ae ae . a A a A ^ a } ^ a A A ^ c | { a ^ A A U P A A | ^ . ^ } ca a A e A ~ ae ca A c | a A ^ a] ^ d | ^ { A @ a | : & a a [] . E A V @ A ae ae . a A a A . ^ a ae | A ^ . ^ | A e A ae a | a A ae * [| ^ A] | [& a ^ | ^ E a ae a A ae a a ae a a a a a a] ae A . c | a * A | A c | A] ^ a a A c e ae a | ~ . A | A c | a A & [. ca ^ } . A c | a ae a A | ^ . ^ } a a a A | d a ~ c | a A c | a U P A c | a A e . . . ^ a E U [{ ^ A & [. ca ^ } . A | A ^ d | ^ { A @ a | : & a a [] . A ae a A c e ae a | ~ . A | A c | a E A @ A ^ c | a A ^ A V U P A ^ ~ a ^ A ae a a a a] ae A . c | a * A ^ c | A ae] | ^ A e a E A

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5.2 SOIL AND GROUNDWATER LABORATORY ANALYTICAL RESULTSÁ

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5.2.1 LAB ANALYTICAL RESULTS (Jensen Drive)Á

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5.2.2 LAB ANALYTICAL RESULTS (Friendly Street)Á

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Groundwater (^{GW}GW_{ing}) PCLs of 0.98 mg/L for TPH. Due to this laboratory analytical detection, the area shall be defined as a PPCA. Special soil and groundwater handling practices will be required at the REC location. Groundwater shall be contained, sampled, discharged, or disposed as appropriate using applicable permits. Solvent resistant piping and gaskets are required at this location. The station numbers are as follows:

The Station Nos. are from 4+50 to 5+25 (Eastex Fwy. frontage).

Clarington Street

- An ethyl-benzene concentration of 0.0026 mg/L was reported in the laboratory analytical results from groundwater sample from boring TW-06. Due to this laboratory analytical detection, the area shall be defined as a PPCA. Special groundwater handling practices will be required at the REC location. Solvent resistant piping and gaskets are required at this location. The station numbers are as follows:

The Station Nos. are from 10+00 to 11+00 (Clarington Road).

Parker Road

- Due to the minor soil laboratory analytical detections in soil boring SB-15, the area is a PPCA. Low level detections of methylene chloride (0.0072 mg/L) and n-Propylbenzene (0.011 mg/kg) were reported in SB-15. Solvent resistant piping and gaskets are required at this location. The station numbers are as follows:

The Station Nos. are from 11+00 to 12+00 (Parker Road).

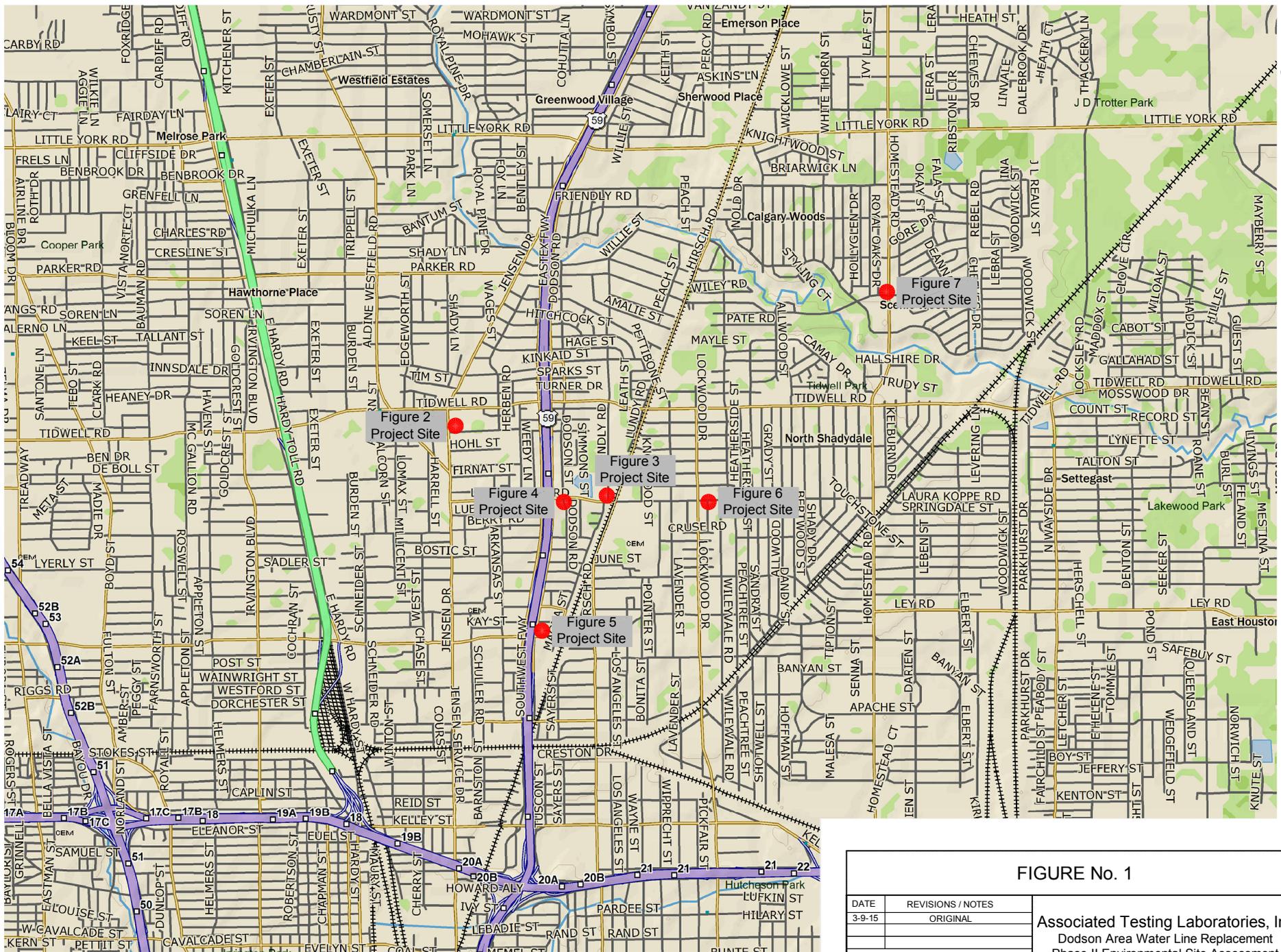


FIGURE No. 1

DATE	REVISIONS / NOTES
3-9-15	ORIGINAL

Associated Testing Laboratories, Inc
 Dodson Area Water Line Replacement
 Phase II Environmental Site Assessment

1" = 4000'

Base Map extracted from Delorme Topo USA



Base Map extracted from Google Earth Pro.

- SOIL BORING LOCATION
- SOIL BORING with TEMP WELL LOCATION

FIGURE No. 2

DATE	REVISIONS / NOTES
3-9-15	ORIGINAL

Associated Testing Laboratories, Inc
 Dodson Area Water Line Replacement
 Phase II Environmental Site Assessment

1" = 50'



Base Map extracted from Google Earth Pro.

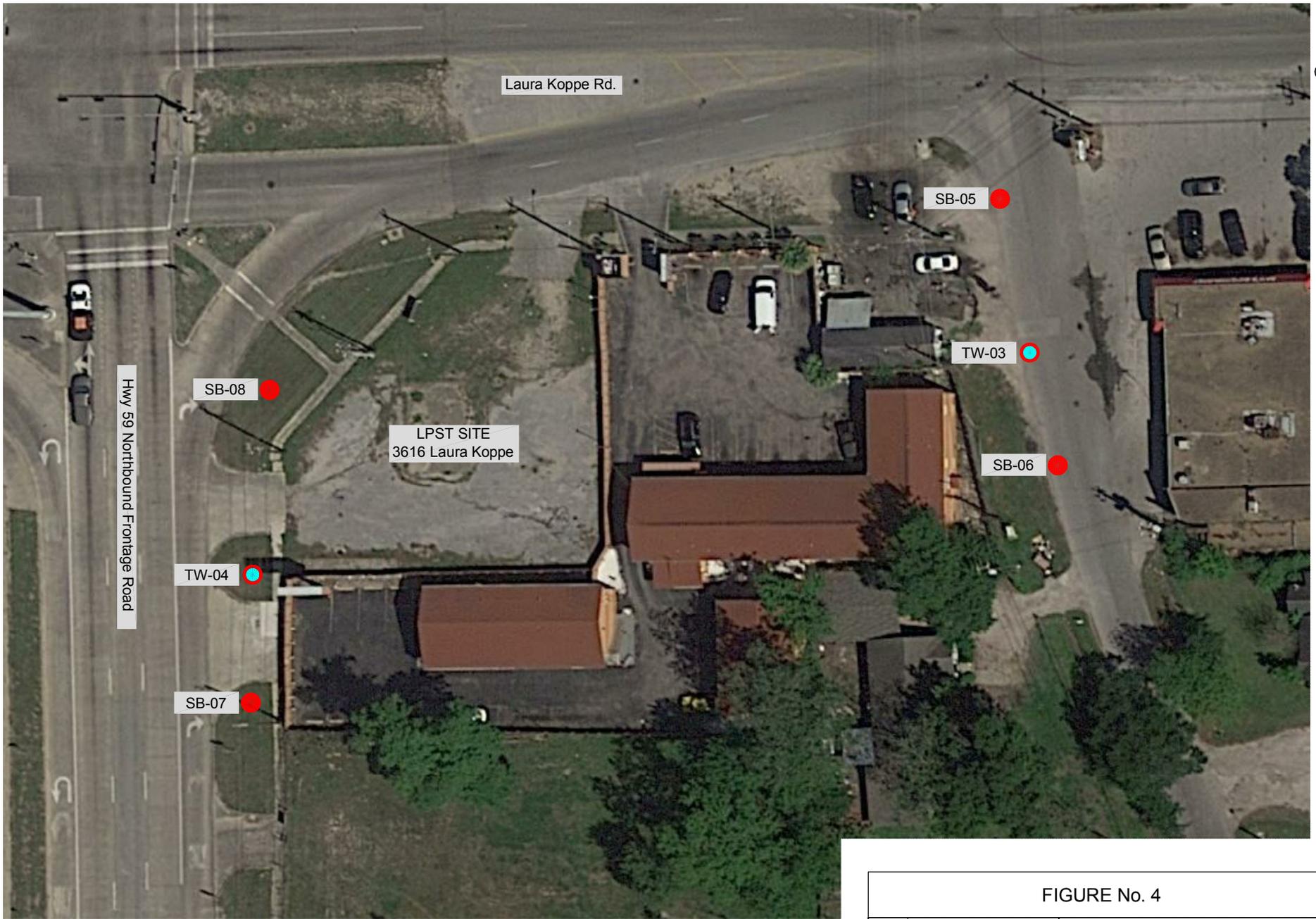
- SOIL BORING LOCATION
- SOIL BORING with TEMP WELL LOCATION

FIGURE No. 3

DATE	REVISIONS / NOTES
3-9-15	ORIGINAL

Associated Testing Laboratories, Inc
 Dodson Area Water Line Replacement
 Phase II Environmental Site Assessment

1" = 50'



Base Map extracted from Google Earth Pro.

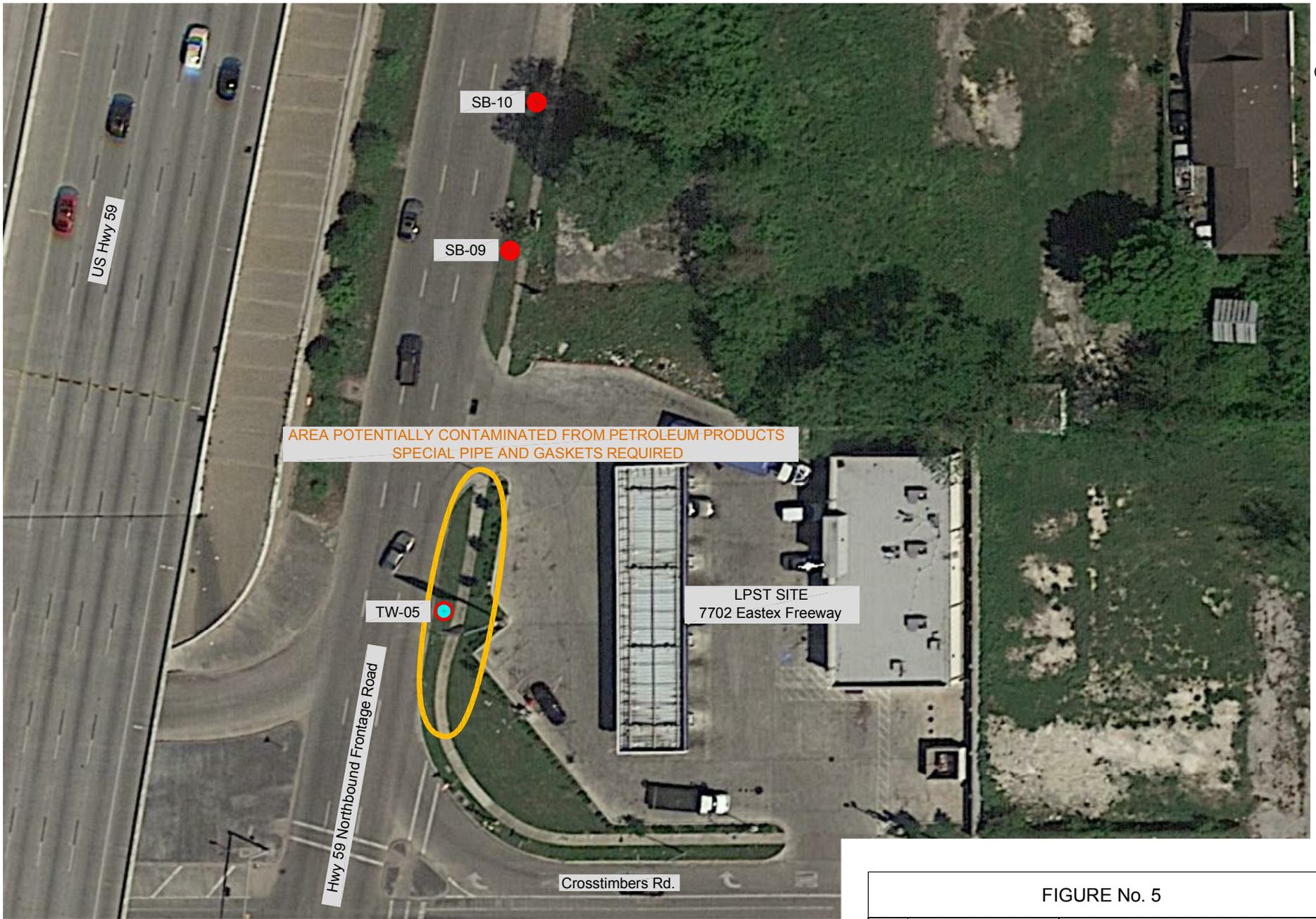
- SOIL BORING LOCATION
- SOIL BORING with TEMP WELL LOCATION

FIGURE No. 4

DATE	REVISIONS / NOTES
3-9-15	ORIGINAL

Associated Testing Laboratories, Inc
 Dodson Area Water Line Replacement
 Phase II Environmental Site Assessment

1" = 50'



Base Map extracted from Google Earth Pro.

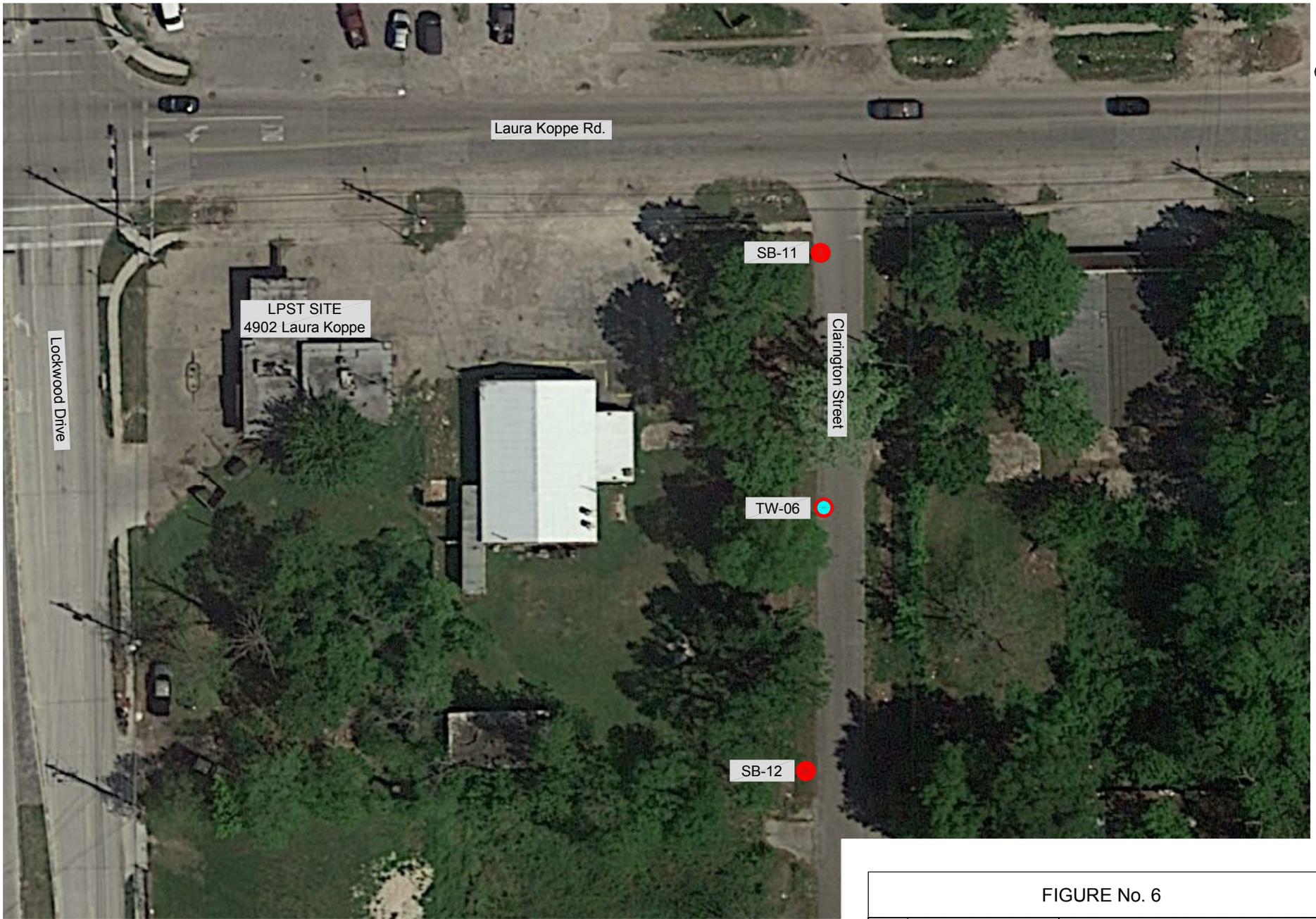
- SOIL BORING LOCATION
- SOIL BORING with TEMP WELL LOCATION

FIGURE No. 5

DATE	REVISIONS / NOTES
3-9-15	ORIGINAL

1" = 50'

Associated Testing Laboratories, Inc
 Dodson Area Water Line Replacement
 Phase II Environmental Site Assessment



Base Map extracted from Google Earth Pro.

- SOIL BORING LOCATION
- SOIL BORING with TEMP WELL LOCATION

FIGURE No. 6

DATE	REVISIONS / NOTES
3-9-15	ORIGINAL

Associated Testing Laboratories, Inc
 Dodson Area Water Line Replacement
 Phase II Environmental Site Assessment

1" = 50'



Base Map extracted from Google Earth Pro.

● SOIL BORING LOCATION

NOTE: Groundwater was not found or sampled.

FIGURE No. 7

DATE	REVISIONS / NOTES
3-9-15	ORIGINAL

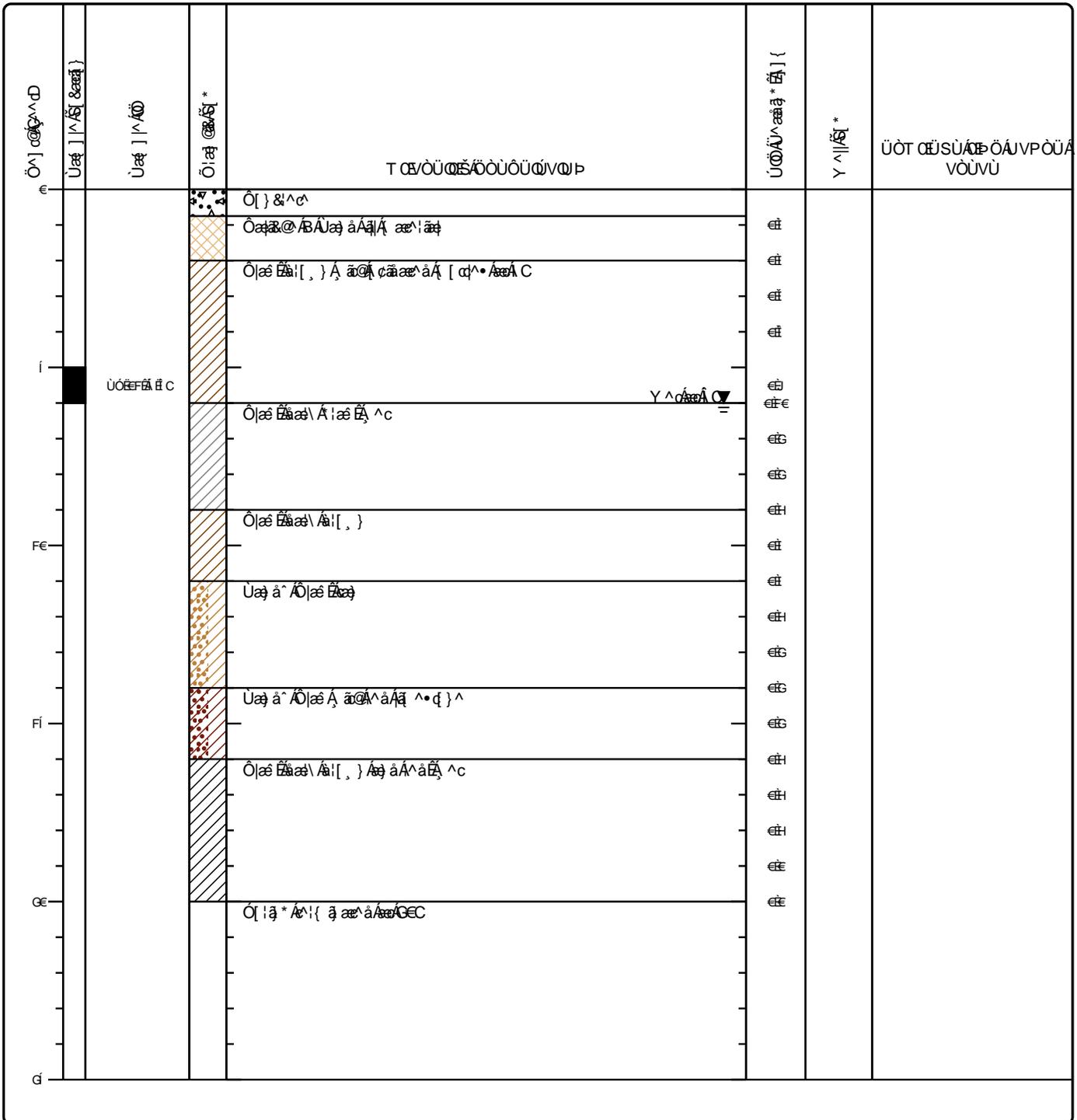
Associated Testing Laboratories, Inc
 Dodson Area Water Line Replacement
 Phase II Environmental Site Assessment

1" = 60'

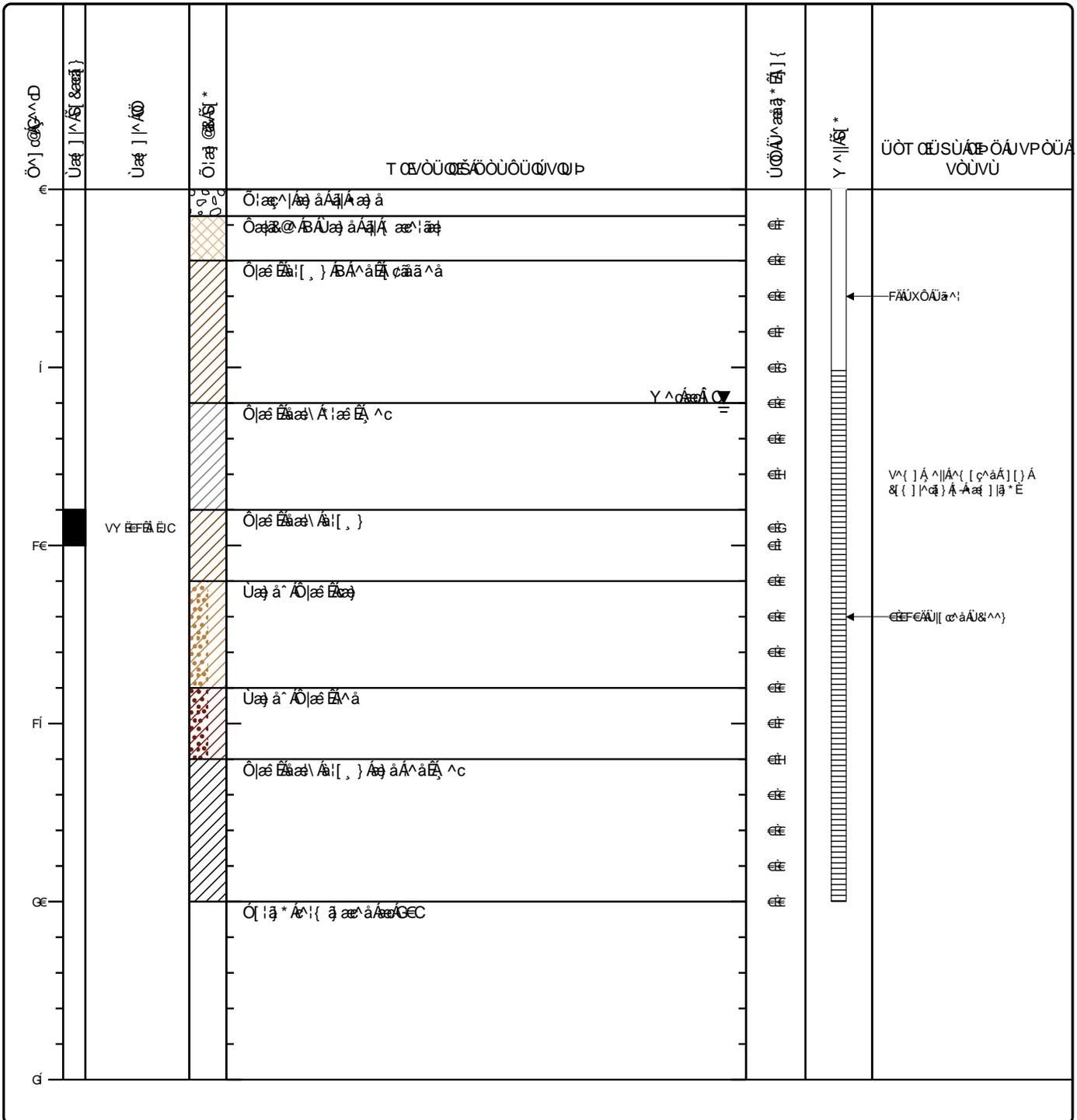
APPENDIX A

APPENDIX A

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Öi q A * A T ^ c q a Direct Push	Öi q A C A Ú a ^ c V] ^ 2" x 4'	V [c a A C] c A [- Á Ö] i ^ c V] ^ 20'
Öi q A Ú a A V] ^ Truck Mounted Geoprobe	Öi q A * A Ö [] d a c q i Envirotech	c q] i c q a A Ú : a A Á c a c q i
Öi [] á, a a i A c ^ A q a á Ö a A ^ a e ^ i a	Ú a q] q a T ^ c q a G D	P a q { ^ i A Ö a a e
Ö [] ^ c V] A Ö a a q	Š [& c] } West end of Hurley St, at Jensen Dr.	



ÖæGDÄ Öiāā 2-18-15	Š ** āāÖ CMM	Ö @ & āāÖ D Drayback
Öiāā * Á T ^ c ā Direct Push	Öiāā ÖāÄ Üā ^ Ö] ^ 2"x4'	V [cāÖ ^] cā [- Ö] ^ ^ 20'
Öiāā Üā Ä V ^ ^ Truck Mounted Geoprobe	Öiāā * Á Ö [] cāā Envirotech	Ö [] i [cā ā Ä Ü ^ : cā Ö ^ cāā }
Öi [^] ā, cā i ā c ^ Ä cā ā Ö cā Ä ^ cā ^ ä	Üā] iā * Á T ^ c ā G D	Pā { ^ i Ä Ö cāā
Ö [^ c] ^ Ä Ö cāā	Š [&] } West end of Hurley St, near Jensen Dr.	



Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring SB-02

Sheet 1 of 1

Date(s) Drilled 2-18-15	Logged By CMM	Checked By D Drayback
Drilling Method Direct Push	Drill Bit Size/Type 2"x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location West end of Hurley St, at Jensen Dr.	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				Gravel and sand fill			
				Clay, brown	0.0		
					0.0		
					0.0		
					0.0		
5					0.0		
				Clay, dark gray, moist	0.0		Wet at 6' ▼
					0.0		
					0.0		
10		SB-02, 9'		Clay, black	0.3		
				Clay, white limestone, hard	0.0		
				Clay, red, moist	0.0		
15					0.0		
				Clay, dark brown and red, wet	0.0		
					0.0		
					0.0		
20				Boring terminated at 20'	0.0		
25							

Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring SB-05

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Draybuck
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Dodson Road at Laura Koppe Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				No Recovery			
				Sand and fill material	0.0		
				Sand, gray to tan	0.4		
5				Clay, gray with red and orange mottling, stiff	0.5		
		SB-05, 8'			0.4		
				Sand, light gray, wet	0.3		Wet at 9' ▼
10					0.1		
				Sand, light gray medium to fine grain	0.2		
					0.0		
15					0.0		
					0.0		
					0.0		
20				Boring terminated at 20'	0.0		
					0.0		
25							

Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring SB-06

Sheet 1 of 1

Date(s) Drilled 2-18-15	Logged By CMM	Checked By D Drayback
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Dodson Road at Laura Koppe Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				Asphalt			
				Gravel and fill	0.0		
				Sand, black	0.0 0.4		
5		SB-06, 3-4'		Clay, red and brown	1.1 0.4		
				Wet at 9'	0.0		
10				Sand, gray, wet	0.0 0.2		
				Sand, light gray medium to fine grain	1.0 0.0 0.0 0.0 0.0 0.0 0.0		
15							
20				Boring terminated at 20'	0.0		
25							

Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring SB-08

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Draybuck
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Northbound Hwy 59 feeder at Laura Koppe Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				No Recovery			
				Sand and gravel fill material	0.3		
					0.3		
					0.3		
5					0.3		
		SB-08, 6'		Sandy clay, lt brown with red and orange streaks	0.3		
				Moist at 7'	0.3		
				Wet at 9' 	0.3		
10				Sand, gray & tan, wet	0.1		
					0.0		
					0.0		
					0.0		
15					0.0		
				Clayey Sand, light gray	0.0		
					0.0		
					0.0		
20				Boring terminated at 20'	0.0		
25							

Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring TW-05

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Draybuck
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Northbound Hwy 59 feeder at Crosstimbers Rd.	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				No Recovery			
				Sandy Clay, light brown, slightly moist	0.4	← 1" PVC Riser	
				Sandy clay, light gray, damp	0.6 0.3		
					9.5 57.6		Temp well removed upon completion of sampling.
				Sand, gray & tan, fine to medium grain, wet	212.6		
10		TW-05, 10'		Clayey sand, red, damp	1123		
				Clay, light gray and red	560		Wet at 11' ▼
					15.0	← 0.010" Slotted Screen	
					37.0 21.8		
15				Clay, mostly red, gray streaks	27.1 26.0		
					12.7 0.0		
				Clay, gray, stiff	0.0		
20				Boring terminated at 20'	0.0		
25							

Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring SB-09

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Drayback
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Northbound Hwy 59 feeder at Crosstimbers Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				No Recovery			
				Sand and gravel fill material	0.1		
				Clayey Sand, light gray	0.1		
5		SB-09.5'		Clay, light gray, soft and moist	0.2		
					0.3		
					0.3		
					0.2		
					0.0		
					0.0		
					0.0		
10				Sand, gray & tan, wet	0.1		
					0.1		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
20				Boring terminated at 20'	0.0		
25							

Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring SB-10

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Drayback
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Northbound Hwy 59 feeder at Crosstimbers Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				No Recovery			
				Sand fill material			
				Clayey Sand, dark brown	0.0		
					0.0		
5				Clay, tan with orange streaks	0.0		
					0.0		
				Sandy Clay, slightly moist, light gray	0.0		
					0.0		
					0.0		
10		SB-10, 5'		Clayey Sand, light gray, damp	0.0		
					0.0		
					0.0		
					0.0		
					0.0		
15				Clay, light gray with red streaks	0.0		
					0.0		
					0.0		
					0.0		
					0.0		
20				Clay, red and gray	0.0		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
					0.0		
25				Boring terminated at 20'	0.0		

Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring SB-12

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Drayback
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Clarington Street at Laura Koppe Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				No Recovery to 4'			
5		SB-12, 6'		Clay, gray with red streaks	0.0		
				Moist at 7'	0.0		
10				Clay, light gray, stiff	0.0		
					Wet at 12' 	0.0	
15				Clayey Sand, gray, wet	0.0		
				Clayey sand, red	0.0		
20				Boring terminated at 20'	0.0		
25							

Project: PII for Water Line Replacement

Location: Dodson Area of Houston

Project Number: 35-0205-3

Log of Boring SB-13

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Draybuck
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Parker Road at Homestead Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				No Recovery			
0.1				Sandy Clay, light gray, dry	0.1		
0.2					0.2		
0.3					0.3		
5		SB-13, 4'			0.1		
				Clay, light gray, stiff	0.1		
					0.1		
				Clay, light gray with orange streaks	0.1		
10					0.1		
					0.0		
				Clay, gray with white nodules	0.1		
					0.1		
					0.0		
					0.0		
					0.0		
				Clay, gray with red streaks	0.0		
					0.0		
20				Boring terminated at 20'	0.0		
25							

Project: **PII for Water Line Replacement**

Location: **Dodson Area of Houston**

Project Number: **35-0205-3**

Log of Boring SB-14

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Drayback
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Parker Road at Homestead Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS	
0				No Recovery				
0.1				Clay, gray, hard and dry	0.1			
0.1					0.1			
5						0.2		
						0.3		
						0.3		
10		SB-14, 11'		Clay, gray with white nodules	0.1			
					0.1			
					0.2			
				Clay, gray with tan and orange streaks, hard and dry	0.8			
					0.5			
					0.1			
15					0.3			
					0.3			
20				Boring terminated at 20'	0.0			
					0.0			
					0.0			
					0.0			
					0.0			
25								

Project: **PII for Water Line Replacement**

Location: **Dodson Area of Houston**

Project Number: **35-0205-3**

Log of Boring SB-15

Sheet 1 of 1

Date(s) Drilled 2-19-15	Logged By MJ	Checked By D Draybuck
Drilling Method Direct Push	Drill Bit Size/Type 2" x4'	Total Depth of Borehole 20'
Drill Rig Type Truck Mounted Geoprobe	Drilling Contractor Envirotech	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s)	Hammer Data
Borehole Backfill	Location Parker Road at Homestead Road	

Depth (feet)	Sample Location	Sample ID	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				No Recovery			
				Clay, gray, hard and dry	1.6		
					10.3		
5					10.2		
		SB-15, 6-7'			104		
				Clay with small white nodules	16.4		
					10.1		
					3.2		
10				Clay, gray with red streaks	3.6		
					0.8		
					1.2		
					3.4		
					3.1		
15					0.5		
				Clay, red, hard and dry	0.5		
					0.0		
					0.0		
20				Boring terminated at 20'	0.0		
					0.0		
25							

APPENDIX B

Laboratory Analytical Results

Laboratory Analysis Report

Total Number of Pages: 47

Job ID : 15020985



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
Water Line Replacement - Dodson Area

Report To : Client Name: Envirotech P.O.#.:
Attn: David Draybuck Sample Collected By:
Client Address: PO Box 19064 Date Collected: 02/18/15 - 02/19/15
City, State, Zip: Houston, Texas, 77224

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
SB-01, 5'-6'	Soil	15020985.01
TW-01, 8'-9'	Soil	15020985.02
TW-01	Water	15020985.03
SB-02, 9'	Soil	15020985.04
SB-03, 2'-3'	Soil	15020985.05
TW-02, 3'-4'	Soil	15020985.06
TW-02	Water	15020985.07
SB-04, 3'-4'	Soil	15020985.08
SB-06, 3'-4'	Soil	15020985.09
TW-03, 3'-4'	Soil	15020985.10
TW-03	Water	15020985.11
SB-05, 8'	Soil	15020985.12
SB-07, 8'	Soil	15020985.13
TW-04, 9'	Soil	15020985.14
TW-04	Water	15020985.15
SB-08, 6'	Soil	15020985.16
TW-05, 10'	Soil	15020985.17
TW-05	Water	15020985.18
SB-09, 5'	Soil	15020985.19

Shantall Carpenter

Released By: Shantall Carpenter
Title: Senior Project Manager
Date: 3/2/2015



This Laboratory is NELAP (T104704213-14-12) accredited. Effective: 11/21/2014; Expires: 03/31/2015

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 02/20/2015 11:07

Laboratory Analysis Report

Total Number of Pages: 47

Job ID : 15020985



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
SB-10, 5'	Soil	15020985.20
SB-11, 5'	Soil	15020985.21
TW-06, 8'	Soil	15020985.22
TW-06	Water	15020985.23
SB-12, 6'	Soil	15020985.24
SB-13, 4'	Soil	15020985.25
SB-14, 11'	Soil	15020985.26
SB-15, 6'-7'	Soil	15020985.27

Shantall Carpenter

Released By: Shantall Carpenter

Title: Senior Project Manager

Date: 3/2/2015



This Laboratory is NELAP (T104704213-14-12) accredited. Effective: 11/21/2014; Expires: 03/31/2015

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

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Date Received : 02/20/2015 11:07

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 15020985

Date: 3/2/2015

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

J	Estimation. Below calibration range but above MDL.
L1	Associated LCS and/or LCSD recovery is above acceptance limits for flagged analyte. Bias may be high.
Q18	Soils not collected in a hermetically sealed container may lose low-level VOCs.
Q9	Sample received in inappropriate container.
R3	MS/MSD RPD exceeds control limit. Recovery meets acceptance criteria."The sample randomly selcted as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
R4	LCS/LCSD RPD exceeds control limit. Recovery meets acceptance criteria.
S5	Target compounds caused elevation of baseline. Surrogate not calculated
V1	CCV recovery is above acceptance limits. This target analyte was not detected in the sample.
V7	CCV recovery is below the control limit for this analyte, however the average %difference for all the analytes meets method criteria.



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-01, 5'-6' Job Sample ID: 15020985.01
 Date Collected: 02/18/15 Sample Matrix: Soil
 Time Collected: 09:00
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.99	0.0049			02/23/15 16:34	SRB
	Benzene	BRL	mg/Kg	0.99	0.0049		Q18	02/23/15 16:34	SRB
	Toluene	BRL	mg/Kg	0.99	0.0049			02/23/15 16:34	SRB
	Ethylbenzene	BRL	mg/Kg	0.99	0.0049			02/23/15 16:34	SRB
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.0099			02/23/15 16:34	SRB
	o-Xylene	BRL	mg/Kg	0.99	0.0049			02/23/15 16:34	SRB
	Xylenes	BRL	mg/Kg	0.99	0.0148			02/23/15 16:34	SRB
	Trifluorotoluene(surr)	93.5	%	0.99	81-111			02/23/15 16:34	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/24/15 20:48	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/24/15 20:48	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/24/15 20:48	AVB
	Total C6-C35	BRL	mg/Kg	1				02/24/15 20:48	AVB
	1-Chlorooctane(surr)	119	%	1	60-143			02/24/15 20:48	AVB
	Chlorooctadecane(surr)	91.4	%	1	60-150			02/24/15 20:48	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-01, 8'-9' Job Sample ID: 15020985.02
 Date Collected: 02/18/15 Sample Matrix: Soil
 Time Collected: 09:45
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.00	0.0050			02/23/15 16:59	SRB
	Benzene	BRL	mg/Kg	1.00	0.0050		Q18	02/23/15 16:59	SRB
	Toluene	BRL	mg/Kg	1.00	0.0050			02/23/15 16:59	SRB
	Ethylbenzene	BRL	mg/Kg	1.00	0.0050			02/23/15 16:59	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.0100			02/23/15 16:59	SRB
	o-Xylene	BRL	mg/Kg	1.00	0.0050			02/23/15 16:59	SRB
	Xylenes	BRL	mg/Kg	1.00	0.0150			02/23/15 16:59	SRB
	Trifluorotoluene(surr)	91.5	%	1.00	81-111			02/23/15 16:59	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/24/15 21:11	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/24/15 21:11	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/24/15 21:11	AVB
	Total C6-C35	BRL	mg/Kg	1				02/24/15 21:11	AVB
	1-Chlorooctane(surr)	135	%	1	60-143			02/24/15 21:11	AVB
	Chlorooctadecane(surr)	100	%	1	60-150			02/24/15 21:11	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-01 Job Sample ID: 15020985.03
 Date Collected: 02/18/15 Sample Matrix: Water
 Time Collected: 10:35
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			02/21/15 10:20	SRB
	Benzene	BRL	mg/L	1	0.002			02/21/15 10:20	SRB
	Toluene	BRL	mg/L	1	0.002			02/21/15 10:20	SRB
	Ethylbenzene	BRL	mg/L	1	0.002			02/21/15 10:20	SRB
	m- & p-Xylenes	BRL	mg/L	1	0.004			02/21/15 10:20	SRB
	o-Xylene	BRL	mg/L	1	0.002			02/21/15 10:20	SRB
	Xylenes	BRL	mg/L	1	0.006			02/21/15 10:20	SRB
	Trifluorotoluene(surr)	90	%	1	75-125			02/21/15 10:20	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/L	0.642	0.642		Q9	02/23/15 14:20	AVB
	>C12-C28 ¹	BRL	mg/L	0.642	0.642			02/23/15 14:20	AVB
	>C28-C35 ¹	BRL	mg/L	0.642	0.7062			02/23/15 14:20	AVB
	Total C6-C35	BRL	mg/L	0.642				02/23/15 14:20	AVB
	1-Chlorooctane(surr)	110	%	0.642	70-125			02/23/15 14:20	AVB
	Chlorooctadecane(surr)	121	%	0.642	70-125			02/23/15 14:20	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-02, 9' Job Sample ID: 15020985.04
 Date Collected: 02/18/15 Sample Matrix: Soil
 Time Collected: 10:55
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.99	0.0050			02/23/15 17:32	SRB
	Benzene	BRL	mg/Kg	0.99	0.0050		Q18	02/23/15 17:32	SRB
	Toluene	BRL	mg/Kg	0.99	0.0050			02/23/15 17:32	SRB
	Ethylbenzene	BRL	mg/Kg	0.99	0.0050			02/23/15 17:32	SRB
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.0099			02/23/15 17:32	SRB
	o-Xylene	BRL	mg/Kg	0.99	0.0050			02/23/15 17:32	SRB
	Xylenes	BRL	mg/Kg	0.99	0.0149			02/23/15 17:32	SRB
	Trifluorotoluene(surr)	95.5	%	0.99	81-111			02/23/15 17:32	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/24/15 21:35	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/24/15 21:35	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/24/15 21:35	AVB
	Total C6-C35	BRL	mg/Kg	1				02/24/15 21:35	AVB
	1-Chlorooctane(surr)	126	%	1	60-143			02/24/15 21:35	AVB
	Chlorooctadecane(surr)	97.2	%	1	60-150			02/24/15 21:35	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-03, 2'-3' Job Sample ID: 15020985.05
 Date Collected: 02/18/15 Sample Matrix: Soil
 Time Collected: 13:00
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.00	0.0050			02/23/15 17:57	SRB
	Benzene	BRL	mg/Kg	1.00	0.0050		Q18	02/23/15 17:57	SRB
	Toluene	BRL	mg/Kg	1.00	0.0050			02/23/15 17:57	SRB
	Ethylbenzene	BRL	mg/Kg	1.00	0.0050			02/23/15 17:57	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.0100			02/23/15 17:57	SRB
	o-Xylene	BRL	mg/Kg	1.00	0.0050			02/23/15 17:57	SRB
	Xylenes	BRL	mg/Kg	1.00	0.0149			02/23/15 17:57	SRB
	Trifluorotoluene(surr)	90.5	%	1.00	81-111			02/23/15 17:57	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/24/15 21:58	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/24/15 21:58	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/24/15 21:58	AVB
	Total C6-C35	BRL	mg/Kg	1				02/24/15 21:58	AVB
	1-Chlorooctane(surr)	121	%	1	60-143			02/24/15 21:58	AVB
	Chlorooctadecane(surr)	86.3	%	1	60-150			02/24/15 21:58	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-02, 3'-4' Job Sample ID: 15020985.06
 Date Collected: 02/18/15 Sample Matrix: Soil
 Time Collected: 13:40
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.00	0.0050			02/23/15 18:22	SRB
	Benzene	BRL	mg/Kg	1.00	0.0050		Q18	02/23/15 18:22	SRB
	Toluene	BRL	mg/Kg	1.00	0.0050			02/23/15 18:22	SRB
	Ethylbenzene	BRL	mg/Kg	1.00	0.0050			02/23/15 18:22	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.0100			02/23/15 18:22	SRB
	o-Xylene	BRL	mg/Kg	1.00	0.0050			02/23/15 18:22	SRB
	Xylenes	BRL	mg/Kg	1.00	0.0150			02/23/15 18:22	SRB
	Trifluorotoluene(surr)	93	%	1.00	81-111			02/23/15 18:22	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/24/15 22:22	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/24/15 22:22	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/24/15 22:22	AVB
	Total C6-C35	BRL	mg/Kg	1				02/24/15 22:22	AVB
	1-Chlorooctane(surr)	118	%	1	60-143			02/24/15 22:22	AVB
	Chlorooctadecane(surr)	90.5	%	1	60-150			02/24/15 22:22	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-02 Job Sample ID: 15020985.07
 Date Collected: 02/18/15 Sample Matrix: Water
 Time Collected: 14:10
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			02/21/15 10:45	SRB
	Benzene	BRL	mg/L	1	0.002			02/21/15 10:45	SRB
	Toluene	BRL	mg/L	1	0.002			02/21/15 10:45	SRB
	Ethylbenzene	BRL	mg/L	1	0.002			02/21/15 10:45	SRB
	m- & p-Xylenes	BRL	mg/L	1	0.004			02/21/15 10:45	SRB
	o-Xylene	BRL	mg/L	1	0.002			02/21/15 10:45	SRB
	Xylenes	BRL	mg/L	1	0.006			02/21/15 10:45	SRB
	Trifluorotoluene(surr)	88.8	%	1	75-125			02/21/15 10:45	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/L	0.639	0.639		Q9	02/23/15 14:51	AVB
	>C12-C28 ¹	BRL	mg/L	0.639	0.639			02/23/15 14:51	AVB
	>C28-C35 ¹	BRL	mg/L	0.639	0.7029			02/23/15 14:51	AVB
	Total C6-C35	BRL	mg/L	0.639				02/23/15 14:51	AVB
	1-Chlorooctane(surr)	78.6	%	0.639	70-125			02/23/15 14:51	AVB
	Chlorooctadecane(surr)	90.3	%	0.639	70-125			02/23/15 14:51	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-04, 3'-4' Job Sample ID: 15020985.08
 Date Collected: 02/18/15 Sample Matrix: Soil
 Time Collected: 14:25
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.01	0.0050			02/23/15 19:12	SRB
	Benzene	BRL	mg/Kg	1.01	0.0050		Q18	02/23/15 19:12	SRB
	Toluene	BRL	mg/Kg	1.01	0.0050			02/23/15 19:12	SRB
	Ethylbenzene	BRL	mg/Kg	1.01	0.0050			02/23/15 19:12	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.01	0.0101			02/23/15 19:12	SRB
	o-Xylene	BRL	mg/Kg	1.01	0.0050			02/23/15 19:12	SRB
	Xylenes	BRL	mg/Kg	1.01	0.0151			02/23/15 19:12	SRB
	Trifluorotoluene(surr)	93.5	%	1.01	81-111			02/23/15 19:12	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/24/15 22:45	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/24/15 22:45	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/24/15 22:45	AVB
	Total C6-C35	BRL	mg/Kg	1				02/24/15 22:45	AVB
	1-Chlorooctane(surr)	132	%	1	60-143			02/24/15 22:45	AVB
	Chlorooctadecane(surr)	101	%	1	60-150			02/24/15 22:45	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-06, 3'-4' Job Sample ID: 15020985.09
 Date Collected: 02/18/15 Sample Matrix: Soil
 Time Collected: 16:35
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.01	0.0050			02/23/15 19:38	SRB
	Benzene	BRL	mg/Kg	1.01	0.0050		Q18	02/23/15 19:38	SRB
	Toluene	BRL	mg/Kg	1.01	0.0050			02/23/15 19:38	SRB
	Ethylbenzene	BRL	mg/Kg	1.01	0.0050			02/23/15 19:38	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.01	0.0101			02/23/15 19:38	SRB
	o-Xylene	BRL	mg/Kg	1.01	0.0050			02/23/15 19:38	SRB
	Xylenes	BRL	mg/Kg	1.01	0.0151			02/23/15 19:38	SRB
	Trifluorotoluene(surr)	94	%	1.01	81-111			02/23/15 19:38	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/24/15 23:32	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/24/15 23:32	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/24/15 23:32	AVB
	Total C6-C35	BRL	mg/Kg	1				02/24/15 23:32	AVB
	1-Chlorooctane(surr)	130	%	1	60-143			02/24/15 23:32	AVB
	Chlorooctadecane(surr)	99.7	%	1	60-150			02/24/15 23:32	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-03, 3'-4' Job Sample ID: 15020985.10
 Date Collected: 02/18/15 Sample Matrix: Soil
 Time Collected: 15:30
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.00	0.0050			02/23/15 20:03	SRB
	Benzene	BRL	mg/Kg	1.00	0.0050		Q18	02/23/15 20:03	SRB
	Toluene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:03	SRB
	Ethylbenzene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:03	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.0100			02/23/15 20:03	SRB
	o-Xylene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:03	SRB
	Xylenes	BRL	mg/Kg	1.00	0.0149			02/23/15 20:03	SRB
	Trifluorotoluene(surr)	91	%	1.00	81-111			02/23/15 20:03	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/24/15 23:56	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/24/15 23:56	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/24/15 23:56	AVB
	Total C6-C35	BRL	mg/Kg	1				02/24/15 23:56	AVB
	1-Chlorooctane(surr)	100	%	1	60-143			02/24/15 23:56	AVB
	Chlorooctadecane(surr)	77.9	%	1	60-150			02/24/15 23:56	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-03 Job Sample ID: 15020985.11
 Date Collected: 02/18/15 Sample Matrix: Water
 Time Collected: 16:25
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			02/21/15 11:10	SRB
	Benzene	BRL	mg/L	1	0.002			02/21/15 11:10	SRB
	Toluene	BRL	mg/L	1	0.002			02/21/15 11:10	SRB
	Ethylbenzene	BRL	mg/L	1	0.002			02/21/15 11:10	SRB
	m- & p-Xylenes	BRL	mg/L	1	0.004			02/21/15 11:10	SRB
	o-Xylene	BRL	mg/L	1	0.002			02/21/15 11:10	SRB
	Xylenes	BRL	mg/L	1	0.006			02/21/15 11:10	SRB
	Trifluorotoluene(surr)	88.8	%	1	75-125			02/21/15 11:10	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/L	0.648	0.648		Q9	02/23/15 15:23	AVB
	>C12-C28 ¹	BRL	mg/L	0.648	0.648			02/23/15 15:23	AVB
	>C28-C35 ¹	BRL	mg/L	0.648	0.7128			02/23/15 15:23	AVB
	Total C6-C35	BRL	mg/L	0.648				02/23/15 15:23	AVB
	1-Chlorooctane(surr)	85.6	%	0.648	70-125			02/23/15 15:23	AVB
	Chlorooctadecane(surr)	100	%	0.648	70-125			02/23/15 15:23	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-05, 8' Job Sample ID: 15020985.12
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 08:00
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.00	0.0050			02/23/15 20:28	SRB
	Benzene	BRL	mg/Kg	1.00	0.0050		Q18	02/23/15 20:28	SRB
	Toluene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:28	SRB
	Ethylbenzene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:28	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.0100			02/23/15 20:28	SRB
	o-Xylene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:28	SRB
	Xylenes	BRL	mg/Kg	1.00	0.0150			02/23/15 20:28	SRB
	Trifluorotoluene(surr)	90	%	1.00	81-111			02/23/15 20:28	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 00:19	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 00:19	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 00:19	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 00:19	AVB
	1-Chlorooctane(surr)	125	%	1	60-143			02/25/15 00:19	AVB
	Chlorooctadecane(surr)	92.1	%	1	60-150			02/25/15 00:19	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-07, 8' Job Sample ID: 15020985.13
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 08:35
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.00	0.0050			02/23/15 20:53	SRB
	Benzene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:53	SRB
	Toluene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:53	SRB
	Ethylbenzene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:53	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.0100			02/23/15 20:53	SRB
	o-Xylene	BRL	mg/Kg	1.00	0.0050			02/23/15 20:53	SRB
	Xylenes	BRL	mg/Kg	1.00	0.0149			02/23/15 20:53	SRB
	Trifluorotoluene(surr)	87.5	%	1.00	81-111			02/23/15 20:53	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 02:17	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 02:17	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 02:17	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 02:17	AVB
	1-Chlorooctane(surr)	115	%	1	60-143			02/25/15 02:17	AVB
	Chlorooctadecane(surr)	86.6	%	1	60-150			02/25/15 02:17	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-04, 9' Job Sample ID: 15020985.14
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 09:00
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.99	0.0050		V1	02/24/15 20:53	SRB
	Benzene	BRL	mg/Kg	0.99	0.0050		Q18	02/24/15 20:53	SRB
	Toluene	BRL	mg/Kg	0.99	0.0050			02/24/15 20:53	SRB
	Ethylbenzene	BRL	mg/Kg	0.99	0.0050			02/24/15 20:53	SRB
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.0099			02/24/15 20:53	SRB
	o-Xylene	BRL	mg/Kg	0.99	0.0050			02/24/15 20:53	SRB
	Xylenes	BRL	mg/Kg	0.99	0.0149			02/24/15 20:53	SRB
	Trifluorotoluene(surr)	89.5	%	0.99	81-111			02/24/15 20:53	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 02:40	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 02:40	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 02:40	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 02:40	AVB
	1-Chlorooctane(surr)	126	%	1	60-143			02/25/15 02:40	AVB
	Chlorooctadecane(surr)	98.7	%	1	60-150			02/25/15 02:40	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-04 Job Sample ID: 15020985.15
 Date Collected: 02/19/15 Sample Matrix: Water
 Time Collected: 09:10
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			02/21/15 11:35	SRB
	Benzene	BRL	mg/L	1	0.002			02/21/15 11:35	SRB
	Toluene	BRL	mg/L	1	0.002			02/21/15 11:35	SRB
	Ethylbenzene	BRL	mg/L	1	0.002			02/21/15 11:35	SRB
	m- & p-Xylenes	BRL	mg/L	1	0.004			02/21/15 11:35	SRB
	o-Xylene	BRL	mg/L	1	0.002			02/21/15 11:35	SRB
	Xylenes	BRL	mg/L	1	0.006			02/21/15 11:35	SRB
	Trifluorotoluene(surr)	87.5	%	1	75-125			02/21/15 11:35	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/L	0.657	0.657		Q9	02/23/15 15:53	AVB
	>C12-C28 ¹	BRL	mg/L	0.657	0.657			02/23/15 15:53	AVB
	>C28-C35 ¹	BRL	mg/L	0.657	0.7227			02/23/15 15:53	AVB
	Total C6-C35	BRL	mg/L	0.657				02/23/15 15:53	AVB
	1-Chlorooctane(surr)	84.9	%	0.657	70-125			02/23/15 15:53	AVB
	Chlorooctadecane(surr)	101	%	0.657	70-125			02/23/15 15:53	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-08, 6' Job Sample ID: 15020985.16
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 09:30
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.01	0.0051		V1	02/24/15 21:18	SRB
	Benzene	BRL	mg/Kg	1.01	0.0051		Q18	02/24/15 21:18	SRB
	Toluene	BRL	mg/Kg	1.01	0.0051			02/24/15 21:18	SRB
	Ethylbenzene	BRL	mg/Kg	1.01	0.0051			02/24/15 21:18	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.01	0.0101			02/24/15 21:18	SRB
	o-Xylene	BRL	mg/Kg	1.01	0.0051			02/24/15 21:18	SRB
	Xylenes	BRL	mg/Kg	1.01	0.0152			02/24/15 21:18	SRB
	Trifluorotoluene(surr)	90.5	%	1.01	81-111			02/24/15 21:18	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 03:03	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 03:03	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 03:03	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 03:03	AVB
	1-Chlorooctane(surr)	125	%	1	60-143			02/25/15 03:03	AVB
	Chlorooctadecane(surr)	94.7	%	1	60-150			02/25/15 03:03	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-05, 10' Job Sample ID: 15020985.17
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 10:05
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.99	0.0049		V1	02/24/15 21:43	SRB
	Benzene	BRL	mg/Kg	0.99	0.0049		Q18	02/24/15 21:43	SRB
	Toluene	BRL	mg/Kg	0.99	0.0049			02/24/15 21:43	SRB
	Ethylbenzene	0.086	mg/Kg	0.99	0.0049			02/24/15 21:43	SRB
	m- & p-Xylenes	0.027	mg/Kg	0.99	0.0099			02/24/15 21:43	SRB
	o-Xylene	BRL	mg/Kg	0.99	0.0049			02/24/15 21:43	SRB
	Xylenes	0.027	mg/Kg	0.99	0.0148			02/24/15 21:43	SRB
	Trifluorotoluene(surr)	106	%	0.99	81-111			02/24/15 21:43	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	31.9	mg/Kg	1	23.7		Q18	02/25/15 03:26	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 03:26	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 03:26	AVB
	Total C6-C35	31.9	mg/Kg	1				02/25/15 03:26	AVB
	1-Chlorooctane(surr)	N/A	%	1	60-143		S5	02/25/15 03:26	AVB
	Chlorooctadecane(surr)	101	%	1	60-150			02/25/15 03:26	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-05 Job Sample ID: 15020985.18
 Date Collected: 02/19/15 Sample Matrix: Water
 Time Collected: 10:30
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			02/21/15 12:25	SRB
	Benzene	0.0045	mg/L	1	0.002			02/21/15 12:25	SRB
	Toluene	0.0025	mg/L	1	0.002			02/21/15 12:25	SRB
	Ethylbenzene	0.401	mg/L	5	0.01			02/22/15 21:15	SRB
	m- & p-Xylenes	0.198	mg/L	1	0.004			02/21/15 12:25	SRB
	o-Xylene	0.043	mg/L	1	0.002			02/21/15 12:25	SRB
	Xylenes	0.241	mg/L	1	0.006			02/21/15 12:25	SRB
	Trifluorotoluene(surr)	103	%	1	75-125			02/21/15 12:25	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	1.02	mg/L	0.646	0.646		J	02/23/15 16:17	AVB
	>C12-C28 ¹	BRL	mg/L	0.646	0.646			02/23/15 16:17	AVB
	>C28-C35 ¹	BRL	mg/L	0.646	0.7106			02/23/15 16:17	AVB
	Total C6-C35	1.02	mg/L	0.646				02/23/15 16:17	AVB
	1-Chlorooctane(surr)	109	%	0.646	70-125			02/23/15 16:17	AVB
	Chlorooctadecane(surr)	112	%	0.646	70-125			02/23/15 16:17	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-09, 5' Job Sample ID: 15020985.19
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 10:45
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.98	0.0049		V1	02/24/15 22:08	SRB
	Benzene	BRL	mg/Kg	0.98	0.0049		Q18	02/24/15 22:08	SRB
	Toluene	BRL	mg/Kg	0.98	0.0049			02/24/15 22:08	SRB
	Ethylbenzene	BRL	mg/Kg	0.98	0.0049			02/24/15 22:08	SRB
	m- & p-Xylenes	BRL	mg/Kg	0.98	0.0098			02/24/15 22:08	SRB
	o-Xylene	BRL	mg/Kg	0.98	0.0049			02/24/15 22:08	SRB
	Xylenes	BRL	mg/Kg	0.98	0.0147			02/24/15 22:08	SRB
	Trifluorotoluene(surr)	90	%	0.98	81-111			02/24/15 22:08	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 03:49	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 03:49	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 03:49	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 03:49	AVB
	1-Chlorooctane(surr)	115	%	1	60-143			02/25/15 03:49	AVB
	Chlorooctadecane(surr)	89.9	%	1	60-150			02/25/15 03:49	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-10, 5' Job Sample ID: 15020985.20
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 11:07
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.99	0.0050		V1	02/24/15 22:33	SRB
	Benzene	BRL	mg/Kg	0.99	0.0050		Q18	02/24/15 22:33	SRB
	Toluene	BRL	mg/Kg	0.99	0.0050			02/24/15 22:33	SRB
	Ethylbenzene	BRL	mg/Kg	0.99	0.0050			02/24/15 22:33	SRB
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.0099			02/24/15 22:33	SRB
	o-Xylene	BRL	mg/Kg	0.99	0.0050			02/24/15 22:33	SRB
	Xylenes	BRL	mg/Kg	0.99	0.0149			02/24/15 22:33	SRB
	Trifluorotoluene(surr)	87	%	0.99	81-111			02/24/15 22:33	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 04:13	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 04:13	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 04:13	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 04:13	AVB
	1-Chlorooctane(surr)	129	%	1	60-143			02/25/15 04:13	AVB
	Chlorooctadecane(surr)	102	%	1	60-150			02/25/15 04:13	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-11, 5' Job Sample ID: 15020985.21
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 12:27
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.99	0.0050		V1	02/24/15 22:58	SRB
	Benzene	BRL	mg/Kg	0.99	0.0050		Q18	02/24/15 22:58	SRB
	Toluene	BRL	mg/Kg	0.99	0.0050			02/24/15 22:58	SRB
	Ethylbenzene	BRL	mg/Kg	0.99	0.0050			02/24/15 22:58	SRB
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.0099			02/24/15 22:58	SRB
	o-Xylene	BRL	mg/Kg	0.99	0.0050			02/24/15 22:58	SRB
	Xylenes	BRL	mg/Kg	0.99	0.0149			02/24/15 22:58	SRB
	Trifluorotoluene(surr)	90	%	0.99	81-111			02/24/15 22:58	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 04:36	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 04:36	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 04:36	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 04:36	AVB
	1-Chlorooctane(surr)	121	%	1	60-143			02/25/15 04:36	AVB
	Chlorooctadecane(surr)	93.5	%	1	60-150			02/25/15 04:36	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-06, 8' Job Sample ID: 15020985.22
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 12:46
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.00	0.0050		V1	02/24/15 23:23	SRB
	Benzene	BRL	mg/Kg	1.00	0.0050		Q18	02/24/15 23:23	SRB
	Toluene	BRL	mg/Kg	1.00	0.0050			02/24/15 23:23	SRB
	Ethylbenzene	BRL	mg/Kg	1.00	0.0050			02/24/15 23:23	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.0100			02/24/15 23:23	SRB
	o-Xylene	BRL	mg/Kg	1.00	0.0050			02/24/15 23:23	SRB
	Xylenes	BRL	mg/Kg	1.00	0.0149			02/24/15 23:23	SRB
	Trifluorotoluene(surr)	89	%	1.00	81-111			02/24/15 23:23	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 06:08	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 06:08	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 06:08	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 06:08	AVB
	1-Chlorooctane(surr)	126	%	1	60-143			02/25/15 06:08	AVB
	Chlorooctadecane(surr)	94.4	%	1	60-150			02/25/15 06:08	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: TW-06 Job Sample ID: 15020985.23
 Date Collected: 02/19/15 Sample Matrix: Water
 Time Collected: 13:55
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			02/21/15 12:51	SRB
	Benzene	BRL	mg/L	1	0.002			02/21/15 12:51	SRB
	Toluene	BRL	mg/L	1	0.002			02/21/15 12:51	SRB
	Ethylbenzene	0.0026	mg/L	1	0.002			02/21/15 12:51	SRB
	m- & p-Xylenes	BRL	mg/L	1	0.004			02/21/15 12:51	SRB
	o-Xylene	BRL	mg/L	1	0.002			02/21/15 12:51	SRB
	Xylenes	BRL	mg/L	1	0.006			02/21/15 12:51	SRB
	Trifluorotoluene(surr)	88.8	%	1	75-125			02/21/15 12:51	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/L	0.647	0.647		Q9	02/23/15 16:48	AVB
	>C12-C28 ¹	BRL	mg/L	0.647	0.647			02/23/15 16:48	AVB
	>C28-C35 ¹	BRL	mg/L	0.647	0.7117			02/23/15 16:48	AVB
	Total C6-C35	BRL	mg/L	0.647				02/23/15 16:48	AVB
	1-Chlorooctane(surr)	79.4	%	0.647	70-125			02/23/15 16:48	AVB
	Chlorooctadecane(surr)	91.1	%	0.647	70-125			02/23/15 16:48	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-12, 6' Job Sample ID: 15020985.24
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 13:03
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.00	0.0050		V1	02/24/15 23:48	SRB
	Benzene	BRL	mg/Kg	1.00	0.0050		Q18	02/24/15 23:48	SRB
	Toluene	BRL	mg/Kg	1.00	0.0050			02/24/15 23:48	SRB
	Ethylbenzene	BRL	mg/Kg	1.00	0.0050			02/24/15 23:48	SRB
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.0100			02/24/15 23:48	SRB
	o-Xylene	BRL	mg/Kg	1.00	0.0050			02/24/15 23:48	SRB
	Xylenes	BRL	mg/Kg	1.00	0.0149			02/24/15 23:48	SRB
	Trifluorotoluene(surr)	85	%	1.00	81-111			02/24/15 23:48	SRB
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	02/25/15 06:31	AVB
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			02/25/15 06:31	AVB
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			02/25/15 06:31	AVB
	Total C6-C35	BRL	mg/Kg	1				02/25/15 06:31	AVB
	1-Chlorooctane(surr)	132	%	1	60-143			02/25/15 06:31	AVB
	Chlorooctadecane(surr)	99	%	1	60-150			02/25/15 06:31	AVB



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-13, 4' Job Sample ID: 15020985.25
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 14:03
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C									
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,1,1-Trichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,1,2-Trichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,1-Dichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,1-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,1-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,2,3-trichlorobenzene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 14:16	BPC
	1,2,3-Trichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 14:16	BPC
	1,2,4-Trimethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,2-Dibromoethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,2-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,2-Dichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,2-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,3,5-Trimethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,3-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,3-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,4-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	2,2-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	2-Chlorotoluene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	4-Chlorotoluene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	4-Isopropyltoluene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Benzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Bromobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Bromochloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Bromodichloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Bromoform	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Bromomethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Carbon tetrachloride	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Chlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Chloroethane	BRL	mg/Kg	1.00	0.01		V1	02/27/15 14:16	BPC
	Chloroform	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Chloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	cis-1,2-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	cis-1,3-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Dibromochloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-13, 4' Job Sample ID: 15020985.25
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 14:03
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C									
	Dibromomethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Dichlorodifluoromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Ethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Isopropylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	MEK	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Methylene chloride	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Naphthalene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 14:16	BPC
	n-Butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	n-Propylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	o-Xylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	sec-Butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Styrene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	t-butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Tetrachloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Toluene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	trans-1,2-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	trans-1,3-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Trichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	Trichlorofluoromethane	BRL	mg/Kg	1.00	0.01		V1	02/27/15 14:16	BPC
	Vinyl Chloride	BRL	mg/Kg	1.00	0.01			02/27/15 14:16	BPC
	1,2-Dichloroethane-d4(surr)	107	%	1.00	70-130			02/27/15 14:16	BPC
	Dibromofluoromethane(surr)	106	%	1.00	70-130			02/27/15 14:16	BPC
	p-Bromofluorobenzene(surr)	123	%	1.00	70-130			02/27/15 14:16	BPC
	Toluene-d8(surr)	98.9	%	1.00	70-130			02/27/15 14:16	BPC



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Drayback
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-14, 11' Job Sample ID: 15020985.26
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 14:32
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C									
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,1,1-Trichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,1,2-Trichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,1-Dichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,1-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,1-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,2,3-trichlorobenzene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 14:43	BPC
	1,2,3-Trichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 14:43	BPC
	1,2,4-Trimethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,2-Dibromoethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,2-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,2-Dichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,2-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,3,5-Trimethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,3-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,3-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,4-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	2,2-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	2-Chlorotoluene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	4-Chlorotoluene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	4-Isopropyltoluene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Benzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Bromobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Bromochloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Bromodichloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Bromoform	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Bromomethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Carbon tetrachloride	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Chlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Chloroethane	BRL	mg/Kg	1.00	0.01		V1	02/27/15 14:43	BPC
	Chloroform	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Chloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	cis-1,2-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	cis-1,3-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Dibromochloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-14, 11' Job Sample ID: 15020985.26
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 14:32
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C									
	Dibromomethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Dichlorodifluoromethane	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Ethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Isopropylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	MEK	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Methylene chloride	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Naphthalene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 14:43	BPC
	n-Butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	n-Propylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	o-Xylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	sec-Butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Styrene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	t-butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Tetrachloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Toluene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	trans-1,2-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	trans-1,3-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Trichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	Trichlorofluoromethane	BRL	mg/Kg	1.00	0.01		V1	02/27/15 14:43	BPC
	Vinyl Chloride	BRL	mg/Kg	1.00	0.01			02/27/15 14:43	BPC
	1,2-Dichloroethane-d4(surr)	107	%	1.00	70-130			02/27/15 14:43	BPC
	Dibromofluoromethane(surr)	106	%	1.00	70-130			02/27/15 14:43	BPC
	p-Bromofluorobenzene(surr)	123	%	1.00	70-130			02/27/15 14:43	BPC
	Toluene-d8(surr)	97.9	%	1.00	70-130			02/27/15 14:43	BPC



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-15, 6'-7' Job Sample ID: 15020985.27
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 14:55
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C									
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,1,1-Trichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,1,2-Trichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,1-Dichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,1-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,1-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,2,3-trichlorobenzene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 15:10	BPC
	1,2,3-Trichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 15:10	BPC
	1,2,4-Trimethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,2-Dibromoethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,2-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,2-Dichloroethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,2-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,3,5-Trimethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,3-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,3-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,4-Dichlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	2,2-Dichloropropane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	2-Chlorotoluene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	4-Chlorotoluene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	4-Isopropyltoluene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Benzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Bromobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Bromochloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Bromodichloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Bromoform	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Bromomethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Carbon tetrachloride	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Chlorobenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Chloroethane	BRL	mg/Kg	1.00	0.01		V1	02/27/15 15:10	BPC
	Chloroform	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Chloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	cis-1,2-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	cis-1,3-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Dibromochloromethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC



LABORATORY TEST RESULTS

Job ID : 15020985

Date 3/2/2015

Client Name: Envirotech Attn: David Draybuck
 Project Name: Water Line Replacement - Dodson Area

Client Sample ID: SB-15, 6'-7' Job Sample ID: 15020985.27
 Date Collected: 02/19/15 Sample Matrix: Soil
 Time Collected: 14:55
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C									
	Dibromomethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Dichlorodifluoromethane	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Ethylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Isopropylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	m- & p-Xylenes	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	MEK	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Methylene chloride	0.0072	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Naphthalene	BRL	mg/Kg	1.00	0.01		V7	02/27/15 15:10	BPC
	n-Butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	n-Propylbenzene	0.011	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	o-Xylene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	sec-Butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Styrene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	t-butylbenzene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Tetrachloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Toluene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	trans-1,2-Dichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	trans-1,3-Dichloropropene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Trichloroethylene	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	Trichlorofluoromethane	BRL	mg/Kg	1.00	0.01		V1	02/27/15 15:10	BPC
	Vinyl Chloride	BRL	mg/Kg	1.00	0.01			02/27/15 15:10	BPC
	1,2-Dichloroethane-d4(surr)	106	%	1.00	70-130			02/27/15 15:10	BPC
	Dibromofluoromethane(surr)	106	%	1.00	70-130			02/27/15 15:10	BPC
	p-Bromofluorobenzene(surr)	124	%	1.00	70-130			02/27/15 15:10	BPC
	Toluene-d8(surr)	99.9	%	1.00	70-130			02/27/15 15:10	BPC

¹-Parameter not available for accreditation

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/L

QC Batch ID : qb15022326 **Created Date :** 02/23/15 **Created By :** AVBembde

Samples in This QC Batch : 15020985.03,07,11,15,18,23

Sample Preparation : PB15022525 **Prep Method :** TX 1005 **Prep Date :** 02/20/15 15:00 **Prep By :** AVBembde

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
C6-C12	TPH-1005-1	BRL	mg/L	1	1	
>C12-C28	TPH-1005-2	BRL	mg/L	1	1	
>C28-C35	TPH-1005-4	BRL	mg/L	1	1.1	
Total C6-C35		BRL	mg/L	1		
Chlorooctadecane(surr)	3386-33-2	94	%	1	70-125	
1-Chlorooctane(surr)	111-85-3	95	%	1	70-125	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrLimit	%Recovery CtrLimit	Qual
C6-C12	43	42.8	99.5	43	43.6	101	1.9	20	75-125	
>C12-C28	43	41	95.3	43	41.8	97.2	1.9	20	75-125	
>C28-C35	43	44.2	103	43	46.1	107	4.2	20	75-125	

QC Type: MS and MSD

QC Sample ID: 15020960.07

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrLimit	%Rec CtrLimit	Qual
C6-C12	BRL	43.7	34.9	78.9	43.7	44.6	101	24.7	20	75-125	R3
>C12-C28	BRL	43.7	34.2	77.5	43.7	41.1	93.3	18.5	20	75-125	
>C28-C35	BRL	43.7	35.7	81.4	43.7	41.4	94.4	14.8	20	75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/L

QC Batch ID : Qb15022347 **Created Date :** 02/20/15 **Created By :** SBojja

Samples in This QC Batch : 15020985.03,07,11,15,18,23

Sample Preparation : PB15022339 **Prep Method :** SW-846 5030C **Prep Date :** 02/20/15 17:00 **Prep By :** SBojja

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
MTBE	1634-04-4	BRL	mg/L	1	0.002		
Benzene	71-43-2	BRL	mg/L	1	0.002		
Toluene	108-88-3	BRL	mg/L	1	0.002		
Ethylbenzene	100-41-4	BRL	mg/L	1	0.002		
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/L	1	0.004		
o-Xylene	95-47-6	BRL	mg/L	1	0.002		
Xylenes	1330-20-7	BRL	mg/L	1	0.006		
Trifluorotoluene(surr)	98-08-8	92.5	%	1	75-125		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
MTBE	0.02	0.021	105	0.02	0.022	110	4.6	30	69.4-124	
Benzene	0.02	0.019	95	0.02	0.021	105	10	30	79.1-123	
Toluene	0.02	0.018	90	0.02	0.019	95	5.4	30	72.3-117	
Ethylbenzene	0.02	0.017	85	0.02	0.018	90	5.7	30	77.4-119	
m- & p-Xylenes	0.04	0.036	90	0.04	0.038	95	5.4	30	77.2-127	
o-Xylene	0.02	0.019	95	0.02	0.02	100	5.1	30	71-114	
Xylenes	0.06	0.055	91.7	0.06	0.058	96.7	5.3	30	75.8-121	

QC Type: MS and MSD											
QC Sample ID: 15020979.06											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
MTBE	0.003	0.02	0.026	115	0.02	0.026	115	0	21	68-117	
Benzene	0.015	0.02	0.037	110	0.02	0.036	105	4.6	17	65-143	
Toluene	BRL	0.02	0.017	85	0.02	0.017	85	0	29	67-136	
Ethylbenzene	BRL	0.02	0.019	95	0.02	0.018	90	5.4	30	80-134	
m- & p-Xylenes	BRL	0.04	0.036	90	0.04	0.034	85	5.7	22	81-131	
o-Xylene	BRL	0.02	0.019	95	0.02	0.018	90	5.4	21	74-134	
Xylenes	BRL	0.06	0.055	91.7	0.06	0.052	86.7	5.6	21	80-136	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/Kg

QC Batch ID : Qb15022431 **Created Date :** 02/23/15 **Created By :** SBojja

Samples in This QC Batch : 15020985.01,02,04,05,06,08,09,10,12,13

Sample Preparation : PB15022428 **Prep Method :** SW-846 5035A **Prep Date :** 02/23/15 15:00 **Prep By :** SBojja

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
MTBE	1634-04-4	BRL	mg/Kg	1	0.005	
Benzene	71-43-2	BRL	mg/Kg	1	0.005	
Toluene	108-88-3	BRL	mg/Kg	1	0.005	
Ethylbenzene	100-41-4	BRL	mg/Kg	1	0.005	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/Kg	1	0.01	
o-Xylene	95-47-6	BRL	mg/Kg	1	0.005	
Xylenes	1330-20-7	BRL	mg/Kg	1	0.015	
Trifluorotoluene(surr)	98-08-8	111	%	1	81-111	

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
MTBE	0.05	0.05	100	0.05	0.052	104	3.9	20	67.2-132	
Benzene	0.05	0.049	98	0.05	0.048	96	2.1	20	76.2-128	
Toluene	0.05	0.047	94	0.05	0.046	92	2.2	20	74.2-126	
Ethylbenzene	0.05	0.047	94	0.05	0.048	96	2.1	20	79.4-125	
m- & p-Xylenes	0.1	0.095	95	0.1	0.097	97	2.1	20	76.3-126	
o-Xylene	0.05	0.051	102	0.05	0.053	106	3.9	20	77.1-123	
Xylenes	0.15	0.146	97.3	0.15	0.15	100	2.7	20	77.2-125	

QC Type: MS and MSD											
QC Sample ID: 15020985.04											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
MTBE	BRL	0.05	0.051	102	0.05	0.054	108	5.7	26	76-134	
Benzene	BRL	0.05	0.05	100	0.05	0.046	92	8.3	19	68-138	
Toluene	BRL	0.05	0.048	96	0.05	0.045	90	6.5	19	67-135	
Ethylbenzene	BRL	0.05	0.048	96	0.05	0.045	90	6.5	20	71-127	
m- & p-Xylenes	BRL	0.1	0.099	99	0.101	0.092	91.1	7.3	27	56-135	
o-Xylene	BRL	0.05	0.053	106	0.05	0.05	100	5.8	24	56-134	
Xylenes	BRL	0.149	0.152	102	0.151	0.142	94	6.8	25	59-134	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/Kg

QC Batch ID : Qb15022450 **Created Date :** 02/24/15 **Created By :** SBojja

Samples in This QC Batch : 15020985.14,16,17,19,20,21,22,24

Sample Preparation : PB15022445 **Prep Method :** SW-846 5035A **Prep Date :** 02/24/15 16:00 **Prep By :** SBojja

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
MTBE	1634-04-4	BRL	mg/Kg	1	0.005	
Benzene	71-43-2	BRL	mg/Kg	1	0.005	
Toluene	108-88-3	BRL	mg/Kg	1	0.005	
Ethylbenzene	100-41-4	BRL	mg/Kg	1	0.005	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/Kg	1	0.01	
o-Xylene	95-47-6	BRL	mg/Kg	1	0.005	
Xylenes	1330-20-7	BRL	mg/Kg	1	0.015	
Trifluorotoluene(surr)	98-08-8	93	%	1	81-111	

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
MTBE	0.05	0.062	124	0.05	0.056	112	10.2	20	67.2-132	
Benzene	0.05	0.052	104	0.05	0.049	98	5.9	20	76.2-128	
Toluene	0.05	0.051	102	0.05	0.05	100	2	20	74.2-126	
Ethylbenzene	0.05	0.052	104	0.05	0.052	104	0.0	20	79.4-125	
m- & p-Xylenes	0.1	0.104	104	0.1	0.104	104	0.0	20	76.3-126	
o-Xylene	0.05	0.055	110	0.05	0.055	110	0.0	20	77.1-123	
Xylenes	0.15	0.159	106	0.15	0.159	106	0.0	20	77.2-125	

QC Type: MS and MSD											
QC Sample ID: 15020985.22											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
MTBE	BRL	0.05	0.052	104	0.05	0.051	102	1.9	26	76-134	
Benzene	BRL	0.05	0.049	98	0.05	0.046	92	6.3	19	68-138	
Toluene	BRL	0.05	0.047	94	0.05	0.046	92	2.2	19	67-135	
Ethylbenzene	BRL	0.05	0.049	98	0.05	0.047	94	4.2	20	71-127	
m- & p-Xylenes	BRL	0.101	0.098	97	0.101	0.095	94.1	3.1	27	56-135	
o-Xylene	BRL	0.05	0.053	106	0.05	0.052	104	1.9	24	56-134	
Xylenes	BRL	0.151	0.151	100	0.151	0.147	97.4	2.7	25	59-134	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb15022520 **Created Date :** 02/25/15 **Created By :** AVBembde

Samples in This QC Batch : 15020985.01,02,04,05,06,08,09,10,12

Sample Preparation : PB15022514 **Prep Method :** TX 1005 **Prep Date :** 02/23/15 16:00 **Prep By :** AVBembde

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
C6-C12	TPH-1005-1	BRL	mg/Kg	1	23.7	
>C12-C28	TPH-1005-2	BRL	mg/Kg	1	20.3	
>C28-C35	TPH-1005-4	BRL	mg/Kg	1	17.7	
Total C6-C35		BRL	mg/Kg	1		
Chlorooctadecane(surr)	3386-33-2	97.3	%	1	60-150	
1-Chlorooctane(surr)	111-85-3	127	%	1	60-143	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	433	86.6	500	487	97.4	11.7	20	75-125	
>C12-C28	500	485	97	500	520	104	7	20	75-125	
>C28-C35	500	526	105	500	578	116	9.4	20	75-125	

QC Type: MS and MSD

QC Sample ID: 15021139.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	BRL	500	447	87.9	500	526	104	16.5	20	75-125	
>C12-C28	BRL	500	535	105	500	534	104	0.2	20	75-125	
>C28-C35	BRL	500	482	95.6	500	479	95	0.6	20	75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb15022616 **Created Date :** 02/26/15 **Created By :** AVBembde

Samples in This QC Batch : 15020985.13,14,16,17,19,20,21,22,24

Sample Preparation : PB15022606 **Prep Method :** TX 1005 **Prep Date :** 02/24/15 14:00 **Prep By :** AVBembde

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
C6-C12	TPH-1005-1	BRL	mg/Kg	1	23.7	
>C12-C28	TPH-1005-2	BRL	mg/Kg	1	20.3	
>C28-C35	TPH-1005-4	BRL	mg/Kg	1	17.7	
Total C6-C35		BRL	mg/Kg	1		
Chlorooctadecane(surr)	3386-33-2	93.5	%	1	60-150	
1-Chlorooctane(surr)	111-85-3	122	%	1	60-143	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	550	110	500	535	107	2.8	20	75-125	
>C12-C28	500	562	112	500	547	109	2.7	20	75-125	
>C28-C35	500	503	101	500	486	97.2	3.4	20	75-125	

QC Type: MS and MSD

QC Sample ID: 15020985.21

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	BRL	500	524	104	500	547	109	4.3	20	75-125	
>C12-C28	BRL	500	517	102	500	548	108	5.9	20	75-125	
>C28-C35	BRL	500	458	91.3	500	477	95.1	4.1	20	75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/Kg

QC Batch ID : Qb15022767 **Created Date :** 02/27/15 **Created By :** BPcastro

Samples in This QC Batch : 15020985.25,26,27

Sample Preparation : PB15022758 **Prep Method :** SW-846 5035A **Prep Date :** 02/27/15 11:00 **Prep By :** BPcastro

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,1,1,2-Tetrachloroethane	630-20-6	BRL	mg/Kg	1.00	0.005	
1,1,1-Trichloroethane	71-55-6	BRL	mg/Kg	1.00	0.005	
1,1,2,2-Tetrachloroethane	79-34-5	BRL	mg/Kg	1.00	0.005	
1,1,2-Trichloroethane	79-00-5	BRL	mg/Kg	1.00	0.005	
1,1-Dichloroethane	75-34-3	BRL	mg/Kg	1.00	0.005	
1,1-Dichloroethylene	75-35-4	BRL	mg/Kg	1.00	0.005	
1,1-Dichloropropene	563-58-6	BRL	mg/Kg	1.00	0.005	
1,2,3-trichlorobenzene	87-61-6	BRL	mg/Kg	1.00	0.005	V7
1,2,3-Trichloropropane	96-18-4	BRL	mg/Kg	1.00	0.005	V7
1,2,4-Trichlorobenzene	120-82-1	BRL	mg/Kg	1.00	0.005	
1,2,4-Trimethylbenzene	95-63-6	BRL	mg/Kg	1.00	0.005	
1,2-Dibromo-3-chloropropane	96-12-8	BRL	mg/Kg	1.00	0.005	
1,2-Dibromoethane	106-93-4	BRL	mg/Kg	1.00	0.005	
1,2-Dichlorobenzene	95-50-1	BRL	mg/Kg	1.00	0.005	
1,2-Dichloroethane	107-06-2	BRL	mg/Kg	1.00	0.005	
1,2-Dichloropropane	78-87-5	BRL	mg/Kg	1.00	0.005	
1,3,5-Trimethylbenzene	108-67-8	BRL	mg/Kg	1.00	0.005	
1,3-Dichlorobenzene	541-73-1	BRL	mg/Kg	1.00	0.005	
1,3-Dichloropropane	142-28-9	BRL	mg/Kg	1.00	0.005	
1,4-Dichlorobenzene	106-46-7	BRL	mg/Kg	1.00	0.005	
2,2-Dichloropropane	594-20-7	BRL	mg/Kg	1.00	0.005	
2-Chlorotoluene	95-49-8	BRL	mg/Kg	1.00	0.005	
4-Chlorotoluene	106-43-4	BRL	mg/Kg	1.00	0.005	
4-Isopropyltoluene	99-87-6	BRL	mg/Kg	1.00	0.005	
Benzene	71-43-2	BRL	mg/Kg	1.00	0.005	
Bromobenzene	108-86-1	BRL	mg/Kg	1.00	0.005	
Bromochloromethane	74-97-5	BRL	mg/Kg	1.00	0.005	
Bromodichloromethane	75-27-4	BRL	mg/Kg	1.00	0.005	
Bromoform	75-25-2	BRL	mg/Kg	1.00	0.005	
Bromomethane	74-83-9	BRL	mg/Kg	1.00	0.005	
Carbon tetrachloride	56-23-5	BRL	mg/Kg	1.00	0.005	
Chlorobenzene	108-90-7	BRL	mg/Kg	1.00	0.005	
Chloroethane	75-00-3	BRL	mg/Kg	1.00	0.005	V1
Chloroform	67-66-3	BRL	mg/Kg	1.00	0.005	
Chloromethane	74-87-3	BRL	mg/Kg	1.00	0.005	
cis-1,2-Dichloroethylene	156-59-2	BRL	mg/Kg	1.00	0.005	
cis-1,3-Dichloropropene	10061-01-5	BRL	mg/Kg	1.00	0.005	
Dibromochloromethane	124-48-1	BRL	mg/Kg	1.00	0.005	
Dibromomethane	74-95-3	BRL	mg/Kg	1.00	0.005	
Dichlorodifluoromethane	75-71-8	BRL	mg/Kg	1.00	0.005	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/Kg

QC Batch ID : Qb15022767 **Created Date :** 02/27/15 **Created By :** BPcastro

Samples in This QC Batch : 15020985.25,26,27

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Ethylbenzene	100-41-4	BRL	mg/Kg	1.00	0.005	
Isopropylbenzene	98-82-8	BRL	mg/Kg	1.00	0.005	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/Kg	1.00	0.01	
MEK	78-93-3	BRL	mg/Kg	1.00	0.005	
Methylene chloride	75-09-2	BRL	mg/Kg	1.00	0.005	
Naphthalene	91-20-3	BRL	mg/Kg	1.00	0.005	V7
n-Butylbenzene	104-51-8	BRL	mg/Kg	1.00	0.005	
n-Propylbenzene	103-65-1	BRL	mg/Kg	1.00	0.005	
o-Xylene	95-47-6	BRL	mg/Kg	1.00	0.005	
sec-Butylbenzene	135-98-8	BRL	mg/Kg	1.00	0.005	
Styrene	100-42-5	BRL	mg/Kg	1.00	0.005	
t-butylbenzene	98-06-6	BRL	mg/Kg	1.00	0.005	
Tetrachloroethylene	127-18-4	BRL	mg/Kg	1.00	0.005	
Toluene	108-88-3	BRL	mg/Kg	1.00	0.005	
trans-1,2-Dichloroethylene	156-60-5	BRL	mg/Kg	1.00	0.005	
trans-1,3-Dichloropropene	10061-02-6	BRL	mg/Kg	1.00	0.005	
Trichloroethylene	79-01-6	BRL	mg/Kg	1.00	0.005	
Trichlorofluoromethane	75-69-4	BRL	mg/Kg	1.00	0.005	V1
Vinyl Chloride	75-01-4	BRL	mg/Kg	1.00	0.005	
Dibromofluoromethane(surr)	1868-53-7	105	%	1.00	70-130	
1,2-Dichloroethane-d4(surr)	17060-07-0	103	%	1.00	70-130	
Toluene-d8(surr)	2037-26-5	101	%	1.00	70-130	
p-Bromofluorobenzene(surr)	460-00-4	123	%	1.00	70-130	

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.019	95	0.02	0.02	100	5	30	71.4-131	
1,1,1-Trichloroethane	0.02	0.021	105	0.02	0.021	105	0	30	69.6-140	
1,1,2,2-Tetrachloroethane	0.02	0.018	90	0.02	0.018	90	0	30	66.6-128	
1,1,2-Trichloroethane	0.02	0.019	95	0.02	0.019	95	0	30	72.8-125	
1,1-Dichloroethane	0.02	0.019	95	0.02	0.019	95	0	30	72.7-129	
1,1-Dichloroethylene	0.02	0.02	100	0.02	0.019	95	5	30	71.4-131	
1,1-Dichloropropene	0.02	0.02	100	0.02	0.02	100	0	30	75.9-132	
1,2,3-trichlorobenzene	0.02	0.016	80	0.02	0.016	80	0	30	56.7-153	V7
1,2,3-Trichloropropane	0.02	0.019	95	0.02	0.018	90	5	30	61.6-138	
1,2,4-Trichlorobenzene	0.02	0.017	85	0.02	0.018	90	6	30	55.9-150	V7
1,2,4-Trimethylbenzene	0.02	0.021	105	0.02	0.021	105	0	30	71.1-131	
1,2-Dibromo-3-chloropropa	0.02	0.016	80	0.02	0.016	80	0	30	52.4-150	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb15022767

Created Date : 02/27/15

Created By : BPcastro

Samples in This QC Batch : 15020985.25,26,27

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dibromoethane	0.02	0.019	95	0.02	0.019	95	0	30	72.9-125	
1,2-Dichlorobenzene	0.02	0.02	100	0.02	0.02	100	0	30	76.1-126	
1,2-Dichloroethane	0.02	0.02	100	0.02	0.019	95	5	30	66.4-134	
1,2-Dichloropropane	0.02	0.019	95	0.02	0.019	95	0	30	70.2-128	
1,3,5-Trimethylbenzene	0.02	0.021	105	0.02	0.021	105	0	30	75.1-127	
1,3-Dichlorobenzene	0.02	0.021	105	0.02	0.02	100	5	30	73.9-126	
1,3-Dichloropropane	0.02	0.018	90	0.02	0.018	90	0	30	68.3-124	
1,4-Dichlorobenzene	0.02	0.021	105	0.02	0.021	105	0	30	72.3-127	
2,2-Dichloropropane	0.02	0.021	105	0.02	0.021	105	0	30	68.5-138	
2-Chlorotoluene	0.02	0.021	105	0.02	0.021	105	0	30	71.7-128	
4-Chlorotoluene	0.02	0.021	105	0.02	0.021	105	0	30	72.2-126	
4-Isopropyltoluene	0.02	0.018	90	0.02	0.018	90	0	30	77.5-125	
Benzene	0.02	0.02	100	0.02	0.019	95	5	30	74-126	
Bromobenzene	0.02	0.02	100	0.02	0.02	100	0	30	73.3-129	
Bromochloromethane	0.02	0.016	80	0.02	0.017	85	6	30	68.8-131	
Bromodichloromethane	0.02	0.021	105	0.02	0.021	105	0	30	69-135	
Bromoform	0.02	0.019	95	0.02	0.019	95	0	30	62-146	
Bromomethane	0.02	0.02	100	0.02	0.02	100	0	30	58.7-139	
Carbon tetrachloride	0.02	0.023	115	0.02	0.022	110	4	30	68.7-135	
Chlorobenzene	0.02	0.019	95	0.02	0.019	95	0	30	73.3-129	
Chloroethane	0.02	0.027	135	0.02	0.027	135	0	30	66.2-129	L1,V1
Chloroform	0.02	0.02	100	0.02	0.021	105	5	30	73.7-134	
Chloromethane	0.02	0.017	85	0.02	0.018	90	6	30	51.4-135	
cis-1,2-Dichloroethylene	0.02	0.019	95	0.02	0.019	95	0	30	72.4-132	
cis-1,3-Dichloropropene	0.02	0.02	100	0.02	0.021	105	5	30	67.7-134	
Dibromochloromethane	0.02	0.02	100	0.02	0.02	100	0	30	73.2-126	
Dibromomethane	0.02	0.019	95	0.02	0.019	95	0	30	69.9-134	
Dichlorodifluoromethane	0.02	0.019	95	0.02	0.02	100	5	30	36.8-144	
Ethylbenzene	0.02	0.02	100	0.02	0.02	100	0	30	72.2-128	
Isopropylbenzene	0.02	0.019	95	0.02	0.019	95	0	30	71.2-131	
m- & p-Xylenes	0.04	0.04	100	0.04	0.04	100	0	30	70.7-131	
MEK	0.02	0.023	115	0.02	0.02	100	14	30	52.5-152	
Methylene chloride	0.02	0.019	95	0.02	0.02	100	5	30	70.6-129	
Naphthalene	0.02	0.015	75	0.02	0.016	80	6	30	60.7-145	V7
n-Butylbenzene	0.02	0.021	105	0.02	0.017	85	21	30	66.5-136	
n-Propylbenzene	0.02	0.021	105	0.02	0.021	105	0	30	73.3-126	
o-Xylene	0.02	0.02	100	0.02	0.02	100	0	30	71.6-130	
sec-Butylbenzene	0.02	0.021	105	0.02	0.021	105	0	30	77.9-124	
Styrene	0.02	0.02	100	0.02	0.02	100	0	30	71.1-131	
t-butylbenzene	0.02	0.019	95	0.02	0.019	95	0	30	74.4-130	
Tetrachloroethylene	0.02	0.025	125	0.02	0.016	80	44	30	62.6-157	R4
Toluene	0.02	0.019	95	0.02	0.02	100	5	30	73.3-127	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 15020985

Date : 3/2/2015

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb15022767

Created Date : 02/27/15

Created By : BPCastro

Samples in This QC Batch : 15020985.25,26,27

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	0.02	0.02	100	0.02	0.019	95	5	30	80-120	
trans-1,3-Dichloropropene	0.02	0.02	100	0.02	0.02	100	0	30	71.5-124	
Trichloroethylene	0.02	0.02	100	0.02	0.019	95	5	30	69.2-133	
Trichlorofluoromethane	0.02	0.033	165	0.02	0.033	165	0	30	63.9-140	L1,V1
Vinyl Chloride	0.02	0.023	115	0.02	0.023	115	0	30	40.9-159	

Refer to the Definition page for terms.



Sample Condition Checklist

A&B JobID : 15020985	Date Received : 02/20/2015	Time Received : 11:07AM	
Client Name : Envirotech			
Temperature : 4.1+0.7C/F=4.8°C	Sample pH : N/A		
Thermometer ID : 140539697	pH Paper ID : N/A		
Check Points			
1. Cooler seal present and signed.	Yes	No	N/A
2. Sample(s) in a cooler.	X		
3. If yes, ice in cooler.	X		
4. Sample(s) received with chain-of-custody.	X		
5. C-O-C signed and dated.	X		
6. Sample(s) received with signed sample custody seal.		X	
7. Sample containers arrived intact. (If no comment).	X		
8. Matrix :	Water	Soil	Liquid
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Sample(s) were received in appropriate container(s).	X		
10. Sample(s) were received with proper preservative	X		
11. All samples were logged or labeled.	X		
12. Sample ID labels match C-O-C ID's	X		
13. Bottle count on C-O-C matches bottles found.	X		
14. Sample volume is sufficient for analyses requested.	X		
15. Samples were received within the hold time.	X		
16. VOA vials completely filled.	X		
17. Sample accepted.	X		
Comments : Include actions taken to resolve discrepancies/problem:			

Received by : TKellar

Check in by/date : CCripe / 02/20/2015

APPENDIX C

Tables

Table 1

SUMMARY OF SOIL LABORATORY ANALYTICAL RESULTS - BTEX-MTBE/TPH
WATER LINE REPLACEMENT IN DODSON AREA
HOUSTON, HARRIS COUNTY, TEXAS

Sample ID	Date	Depth (feet)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH C6-C12 (mg/kg)	TPH >C12-C28 (mg/kg)	TPH >C28-C35 (mg/kg)	Total TPH (mg/kg)
TRRP Tier 1 PCLs (^{Tot} Soil _{comb})			800	120.0	5,900	6,400	6000	NA	1,600	2,300	2300	NA
*TRRP Tier 1 PCLs (^{GW} Soil _{ing})			0.62	0.026	8.20	7.60	120	NA	65	200	200	NA
<i>LPST Facility 9302 and 9303 Jensen Drive</i>												
SB-01 (5-6')	2/18/2015	5-6'	<0.0049	<0.0049	<0.0049	<0.0049	<0.0148	<SDL	<23.7	<20.3	<17.7	<SDL
TW-01 (8-9')	2/18/2015	8-9'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0150	<SDL	<23.7	<20.3	<17.7	<SDL
SB-02 (9')	2/18/2015	8-9'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
<i>LPST Facility 8917 Frenly Drive & 4114 Laura Koppe Road</i>												
SB-03 (2-3')	2/18/2015	2-3'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
TW-02 (3-4')	2/18/2015	3-4'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0150	<SDL	<23.7	<20.3	<17.7	<SDL
SB-04 (3-4')	2/18/2015	3-4'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0151	<SDL	<23.7	<20.3	<17.7	<SDL
<i>LPST Facility 3616 Laura Koppe Road</i>												
SB-06 (3-4')	2/18/2015	3-4'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0151	<SDL	<23.7	<20.3	<17.7	<SDL
TW-03 (3-4')	2/18/2015	3-4'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
SB-05 (8')	2/19/2015	7-8'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0150	<SDL	<23.7	<20.3	<17.7	<SDL
SB-07 (8')	2/19/2015	7-8'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
TW-04 (9')	2/19/2015	8-9'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
SB-08 (6')	2/19/2015	5-6'	<0.0051	<0.0051	<0.0051	<0.0051	<0.0152	<SDL	<23.7	<20.3	<17.7	<SDL
<i>LPST Facility 7702 Eastex Freeway</i>												
TW-05 (10')	2/19/2015	9-10'	<0.0049	<0.0049	<0.0049	0.086	0.027	0.113	31.9	<20.3	<17.7	<SDL
SB-09 (5')	2/19/2015	4-5'	<0.0049	<0.0049	<0.0049	<0.0049	<0.0147	<SDL	<23.7	<20.3	<17.7	<SDL
SB-10 (5')	2/19/2015	4-5'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
<i>LPST Facility 4902 Laura Koppe</i>												
SB-11 (5')	2/19/2015	4-5'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
TW-06 (8')	2/19/2015	7-8'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
SB-12 (6')	2/19/2015	5-6'	<0.0050	<0.0050	<0.0050	<0.0050	<0.0149	<SDL	<23.7	<20.3	<17.7	<SDL
Notes:												
1. PCLs indicates TRRP Tier 1 Tables protective concentration limits.												
2. TRRP Tier 1 PCLs (^{Tot} Soil _{comb}) indicates the PCLs for the combined soil exposure pathways (Residential, 0.5-acre site).												
3. TRRP Tier 1 PCLs (^{GW} Soil _{ing}) indicates the PCLs for the leaching of soil concentrations into groundwater (Residential, 0.5-acre site).												
4. Analyses by the following methods: BTEX - EPA Method SW846-8021B; TPH - Texas Method 1005.												
5. Detections are provided in bold font.												
6. NA indicates Not Applicable, or Not Available.												
7. <SDL indicates less than or below sample detection limit (SDL).												
8. Italics indicates SDL exceeds PCL.												
9. J indicates estimated concentration between MDL and PQL.												

TABLE 2

SUMMARY OF SOIL LABORATORY ANALYTICAL RESULTS - VOCs
 WATER LINE REPLACEMENT IN DODSON AREA
 HOUSTON, HARRIS COUNTY, TEXAS

Sample ID	TRRP Tier 1 PCLs (^{Tot} Soil _{Comb})	*TRRP Tier 1 PCLs (^{GW} Soil _{Ing})	SB-13 (4')	SB-14 (11')	SB-15 (6-7')
Date			2/19/2015	2/19/2015	2/19/2015
Depth (feet)			3-4'	10-11'	6-7'
All concentrations are in mg/kg					
1,1,1,2-Tetrachloroethane	65	1.4	<0.01	<0.01	<0.01
1,1,1-Trichloroethane	53000.0	4.6	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	30	0.0023	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	18	0.02	<0.01	<0.01	<0.01
1,1-Dichloroethane	11000	18	<0.01	<0.01	<0.01
1,1-Dichloroethylene	2300	0.05	<0.01	<0.01	<0.01
1,1-Dichloropropene	36	0.13	<0.01	<0.01	<0.01
1,2,3-trichlorobenzene	120	26	<0.01	<0.01	<0.01
1,2,3-Trichloropropane	0.2	0.00053	<0.01	<0.01	<0.01
1,2,4-Trichlorobenzene	120	4.8	<0.01	<0.01	<0.01
1,2,4-Trimethylbenzene	150	49	<0.01	<0.01	<0.01
1,2-Dibromo-3-chloropropane	0.15	0.0017	<0.01	<0.01	<0.01
1,2-Dibromoethane	0.73	0.00021	<0.01	<0.01	<0.01
1,2-Dichlorobenzene	720	18	<0.01	<0.01	<0.01
1,2-Dichloroethane	11	0.014	<0.01	<0.01	<0.01
1,2-Dichloropropane	61	0.023	<0.01	<0.01	<0.01
1,3,5-Trimethylbenzene	110	53	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	120	6.7	<0.01	<0.01	<0.01
1,3-Dichloropropane	36	0.064	<0.01	<0.01	<0.01
1,4-Dichlorobenzene	250	2.1	<0.01	<0.01	<0.01
2,2-Dichloropropane	61	0.12	<0.01	<0.01	<0.01
2-Chlorotoluene	1200	9.1	<0.01	<0.01	<0.01
4-Chlorotoluene	1600	11	<0.01	<0.01	<0.01
4-Isopropyltoluene	8200	230	<0.01	<0.01	<0.01
Benzene	120	0.026	<0.01	<0.01	<0.01
Bromobenzene	390	2.3	<0.01	<0.01	<0.01
Bromochloromethane	3300	3	<0.01	<0.01	<0.01
Bromodichloromethane	98	0.065	<0.01	<0.01	<0.01
Bromoform	400	0.63	<0.01	<0.01	<0.01
Bromomethane	46	0.13	<0.01	<0.01	<0.01
Carbon tetrachloride	35	0.062	<0.01	<0.01	<0.01

TABLE 2

SUMMARY OF SOIL LABORATORY ANALYTICAL RESULTS - VOCs
 WATER LINE REPLACEMENT IN DODSON AREA
 HOUSTON, HARRIS COUNTY, TEXAS

Sample ID	TRRP Tier 1 PCLs (^{Tot} Soil _{Comb})	*TRRP Tier 1 PCLs (^{GW} Soil _{Ing})	SB-13 (4')	SB-14 (11')	SB-15 (6-7')
Date			2/19/2015	2/19/2015	2/19/2015
Depth (feet)			3-4'	10-11'	6-7'
All concentrations are in mg/kg					
Chlorobenzene	520	1.1	<0.01	<0.01	<0.01
Chloroethane	27000	31	<0.01	<0.01	<0.01
Chloroform	16	1	<0.01	<0.01	<0.01
Chloromethane	140	0.41	<0.01	<0.01	<0.01
cis-1,2-Dichloroethylene	140	0.25	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	8	0.0066	<0.01	<0.01	<0.01
Dibromochloromethane	72	0.049	<0.01	<0.01	<0.01
Dibromomethane	81	1.1	<0.01	<0.01	<0.01
Dichlorodifluoromethane	1400	240	<0.01	<0.01	<0.01
Ethylbenzene	6400	7.6	<0.01	<0.01	<0.01
Isopropylbenzene	4300	350	<0.01	<0.01	<0.01
m- & p-Xylenes	8900	150	<0.01	<0.01	<0.01
MEK	40000	29	<0.01	<0.01	<0.01
Methylene chloride	1600	0.013	<0.01	<0.01	0.0072
Naphthalene	220	31	<0.01	<0.01	<0.01
n-Butylbenzene	3300	150	<0.01	<0.01	<0.01
n-Propylbenzene	2200	45	<0.01	<0.01	0.011
o-Xylene	48000	71	<0.01	<0.01	<0.01
sec-Butylbenzene	3300	85	<0.01	<0.01	<0.01
Styrene	6700	3.3	<0.01	<0.01	<0.01
t-butylbenzene	3300	100	<0.01	<0.01	<0.01
Tetrachloroethylene	710	0.05	<0.01	<0.01	<0.01
Toluene	5900	8.2	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	590	0.49	<0.01	<0.01	<0.01
trans-1,3-Dichloropropene	36	0.036	<0.01	<0.01	<0.01
Trichloroethylene	18	0.034	<0.01	<0.01	<0.01
Trichlorofluoromethane	25000	130	<0.01	<0.01	<0.01
Vinyl Chloride	3.7	0.022	<0.01	<0.01	<0.01

TABLE 2

SUMMARY OF SOIL LABORATORY ANALYTICAL RESULTS - VOCs
 WATER LINE REPLACEMENT IN DODSON AREA
 HOUSTON, HARRIS COUNTY, TEXAS

Sample ID	TRRP Tier 1 PCLs (^{Tot} Soil _{Comb})	*TRRP Tier 1 PCLs (^{GW} Soil _{Ing})	SB-13 (4')	SB-14 (11')	SB-15 (6-7')
Date			2/19/2015	2/19/2015	2/19/2015
Depth (feet)			3-4'	10-11'	6-7'
All concentrations are in mg/kg					

Notes:

1. PCLs indicates TRRP Tier 1 Tables protective concentration limits.
2. TRRP Tier 1 PCLs (^{Tot}Soil_{Comb}) indicates the PCLs for the combined soil exposure pathways (Residential, 0.5-acre site).
3. TRRP Tier 1 PCLs (^{GW}Soil_{Ing}) indicates the PCLs for the leaching of soil concentrations into groundwater (Residential, 0.5-acre site).
5. Detections are provided in bold font.
6. NA indicates Not Applicable, or Not Available.
7. <SDL indicates less than or below sample detection limit (SDL).
8. Italics indicates SDL exceeds PCL.
9. J indicates estimated concentration between MDL and PQL.

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX/TPH
WATER LINE REPLACEMENT IN DODSON AREA
HOUSTON, HARRIS COUNTY, TEXAS

Sample ID	Date	MTBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl- Benzene (mg/L)	Xylenes (mg/L)	BTEX (mg/L)	TPH C6-C12 (mg/L)	TPH >C12-C28 (mg/L)	TPH >C28-C35 (mg/L)	Total TPH (mg/L)
TRRP Tier 1 PCLs (^{GW} GW _{ing})		0.24	0.005	1	0.7	10	NA	0.98	0.98	0.98	NA
TRRP Tier 1 PCLs (^{GW} GW _{Class 3})		24	0.05	100	70	1000	NA	97	97	97	NA
TRRP Tier 1 PCLs (^{Air} GW _{inh-v})		4000	180	64000	30000	10000	NA	4250	7497	NA	NA
<i>LPST Facility 9302 and 9303 Jensen Drive</i>											
TW-01	2/18/2015	<0.002	<0.002	<0.002	<0.002	<0.006	<SDL	<0.642	<0.642	<0.642	<SDL
<i>LPST Facility 8917 Frenly Drive & 4114 Laura Koppe Road</i>											
TW-02	2/18/2015	<0.002	<0.002	<0.002	<0.002	<0.006	<SDL	<0.642	<0.642	<0.7029	<SDL
<i>LPST Facility 3616 Laura Koppe Road</i>											
TW-03	2/18/2015	<0.002	<0.002	<0.002	<0.002	<0.006	<SDL	<0.642	<0.642	<0.7128	<SDL
TW-04	2/19/2015	<0.002	<0.002	<0.002	<0.002	<0.006	<SDL	<0.657	<0.657	<0.7727	<SDL
<i>LPST Facility 7702 Eastex Freeway</i>											
TW-05	2/19/2015	<0.002	0.0045	0.0025	0.401	0.241	0.649	1.02	<0.646	<0.646	1.02
<i>LPST Facility 4902 Laura Koppe</i>											
TW-06	2/19/2015	<0.002	<0.002	<0.002	0.0026	<0.006	0.0026	<0.647	<0.647	<0.7117	<SDL

Notes:

1. PCLs indicates TRRP Tier 1 Tables protective concentration limits.
2. TRRP Tier 1 PCLs (^{GW}GW_{ing}) indicates the PCLs for groundwater ingestion and is the same as MCLs under Federal Drinking Water Standards.
3. TRRP Tier 1 PCLs (^{GW}GW_{class 3}) indicates the PCLs for Class 3 groundwater conditions.
4. TRRP Tier 1 PCLs (^{Air}GW_{inh-v}) indicates the PCLs for the inhalation of water vapor.
5. Analyses by the following methods: BTEX/MTBE - EPA Method SW846-8021; TPH - Texas Method 1005
6. Detections are provided in bold font.
7. NA indicates Not Applicable, or Not Available
8. Shaded cell indicates PCL exceedence, if applicable
9. Italics indicates detection limit exceeded the PCL.
10. J value indicates and estimated concentration between the MDL and PQL.

APPENDIX D

Qualifications of Environmental Professional

TOM MURPHY
PROJECT MANAGER
ENVIRONMENTAL ENGINEERING SERVICES

EDUCATION

Texas State (formerly Southwest Texas State University): B. S., Geography-Resource and Environmental Studies/Biology, 1993

REGISTRATION/TRAINING

40/8-Hour CFR 1910.120, OSHA Training and Refreshers (HazWop)
40 CFR 265.16, Hazardous Waste Management Certification
49 CFR 172 & 173, DOT Hazardous Materials Training
29 CFR 1919.134, Respirator Fit Test/Training
RRC Rule 36 & API-RP 49, Hydrogen Sulfide Training
ExxonMobil LPS and OIMS Training
Facility, Client or Site-Specific Safety Training and Protocols

PROFESSIONAL EXPERIENCE

Project Manager
Project Geologist/Scientist/Manager
Field Geologist
Bioremedial Field Engineer
Specialization:
Spill response and assessment/remediation to closure
Environmental site assessments
Remediation systems installation and system design
General construction experience
Regulatory and data interpretation
Surveying/mapping/site plans

PROFESSIONAL HISTORY

Associated Testing Laboratories, Inc., Contract Environmental Professional/Project Manager, Sept. 2013 to present
Berg-Oliver Associates, Inc., Project Manager, November 2004 to present
BNC Environmental Svs., Inc. (successor CRA), Project Geologist/Scientist/Manager, Oct. 2001 to Nov. 2004.
Eco-Systems, Inc., Project Scientist, March 2001 to October 2001.
Self-Employed, Environmental Consultant/Scientist, November 2000 to March 2001.
Associated Environmental Consultants, Inc., Project Manager, August 1995 to November 2000.
Self-Employed, Environmental Consultant, April 1995 to August 1995.
Sybron Chemicals, Inc., Bioremedial Field Engineer, October 1993 to April 1995.

REPRESENTATIVE EXPERIENCE

Mr. Murphy is a mid to senior-level project manager with over 18 years of diverse environmental experience. Mr. Murphy's responsibilities include: project management activities, conducting surface and/or subsurface soil groundwater investigations, Phase II ESAs, Phase IIIs, Affected Property Assessment Reports (APARs), spill response and environmental management, conducting over twenty six hundred Phase I ESAs/due diligence, transaction screens, wetland projects (delineation, nationwide and individual permits), road (new and reconstruction) and infrastructure (waterlines, sanitary sewer and storm sewer) projects and other environmental-related tasks. Experience and preparation of cost proposals, project coordination, health and safety plans and supervisory duties of sub-contractors, bioremedial equipment project design/set-up, various remediation technology projects, equipment and design for treating petroleum-contaminated soil and groundwater, equipment set-up/construction, QA/QC, monitor well advancement, supervision of sampling discharge effluents and storm water, groundwater monitoring supervision, EPA/TCEQ & RRC protocol, expediting projects, treatability studies and contaminant plume mapping. He has project experience in field assessments and remediation projects for banks, developers, brokers, institutions, companies, corporations, engineering firms/government entities (city of Houston,

HCPID-AED and other cities) and the Texas Commission on Environmental Quality Leaking Petroleum Storage Tank (LPST) RPR Division. Mr. Murphy excels in the application of technical knowledge, site-specific factors, data analysis, report preparation to existing and potential clients. Knowledgeable in government environmental acts and regulations. Representative projects include:

- Performed numerous Subsurface Investigations and Phase II-Environmental Site Assessments for various clients to determine the presence or absence of adverse environmental conditions.
- Conducting spill response activities and delineations predominantly for pipeline-related enterprises and bulk storage facilities inclusive of: air monitoring, subcontractor supervision, excavation and over-excavation, sampling, waste disposal (waste profiling/characterization, transportation and disposal), reporting and closure under Railroad Commission of Texas or TCEQ. Representative clients:
 - ❑ ExxonMobil Pipeline Co. (EMPCo.)
 - ❑ BP Pipelines North America (NA), Inc.
 - ❑ Valero Logistics Operations, L.P.
 - ❑ Kinder Morgan
 - ❑ Shell Oil Products US, Equiva, Motiva and Equilon
 - ❑ TEPPCO
- Prepared a pilot project leading to a contracted waste water line build-up treatment plan, technical documents, cost proposal for the City of Houston (waste water line bioremediation).
- Conducted numerous new road, road reconstruction, waterline alignments, sanitary sewer alignments, storm sewer alignments and Limited Environmental Assessment projects for the City of Houston Public Works and Engineering Department, Harris County Public Infrastructure Department-Architecture and Engineering Division and Engineering Firms and other numerous linear projects (TxDOT (State CE, CE and support for LEAs).
- LPST remediation equipment set-up and design, petroleum contaminant reduction, TCEQ approved closure of several LPST sites and supervision of LPST sites.
- Experience in all phases of construction including bioremedial equipment installation, sampling protocol of water and/or soils, and closure of project site. Field Engineer for numerous site assessments throughout the Gulf Coast region. Construction of bioremediation systems to convert pump and treat contaminated ground water including recovery/treatment/microbe and nutrient injection systems. Projects:
 - ❑ Houston Lighting & Power-Spring Branch, Houston, bioreactor system; and
 - ❑ Wilburforce Road, Houston-First Interstate (successor Wells Fargo Bank), bioreactor.
- Field experience with soil injection, bioreactors, air strippers, and vacuum heaps and air sparging to treat soil/groundwater contaminants. Field Engineer for various remediation projects of oil and petroleum-contaminated soils. Field experience in soil vapor extraction equipment (SVE) including a specially designed bio-treated fluid separator. Constructed a vapor extraction system with a biological scrubber to extend carbon polishing efficiency and/or the potential for breakthrough or fugitive releases, and reduction of overall total emissions. System also included method to remove groundwater from vapor extraction wells, which tended to accumulate due to excessive rainfall and shallow groundwater effects. Constructed, maintained and operated landfarms for various clients. Provided technical and consulting services during the operation of the landfarm, including biological health analyses sampling, data interpretation, report presentation and closure. Other Environmental Projects:
 - ❑ Numerous due diligence assessments and affected property assessments for various clients.
 - ❑ Non-producing “old oilfield” asset assessments (Chevron Environmental Management Company and Chevron Business and Real Estate Services).

- ❑ Several States, Monitoring and assessments of natural gas compressor stations (El Paso Energy Corporation-Tennessee Gas Pipeline and Southern Natural Gas).
- ❑ Texas – Hydrostatic water treatment projects.
- ❑ Texas – Wastewater permitting and discharge analyses (Williams Energy-Williams Gas Pipeline and EMPCo.).
- ❑ Numerous crude oil and refined product spill delineations.
- ❑ Texas City, Texas – BP-Amoco pipeline release assessment affecting sanitary sewer system.
- ❑ Texas – Assessments of Shell Oil Products US and related enterprises-Equiva, Motiva and Equilon.
- ❑ Pasadena, Texas – Kinder Morgan Texas Pipeline, Assessment to evaluate off-site source of corrosion to pipeline.
- ❑ Remediation and landfarms (Chevron Environmental Management Co., First Interstate (successor Wells Fargo Bank), Kinder Morgan, Genesis Crude Oil, L.P., Valero Logistics Operations, L.P., TEPPCO, Specialty Lubricants and Commercial Metals).
- ❑ Angleton, Texas – First Interstate (successor Wells Fargo Bank), specialty soil vapor extraction system.
- ❑ Rockport and Marshall, Texas-First Interstate (successor Wells Fargo Bank), vacuum heap/augmented with automated microbial/nutrient additive system.
- Administrative duties, supervision, cost proposals, report preparation, regulatory document preparation, client project status reports. Supervision and field experience in soil boring/monitor well drilling advancement, logging, decommissioning and soil sampling criteria. Installation of numerous soil borings and groundwater monitoring wells at various sites.
- Field experience in groundwater monitoring, low flow sampling, flow interpretation, and contaminant plume mapping. Experience in a variety of mapping, site plan creation/surveying, geographic information systems, regulatory databases and land-use planning.
- Performed over twenty-six hundred Phase I Site Assessments, Categorical Exclusions and Limited Environmental Assessments for various clients including oil companies (Chevron Environmental Management Co., ChevronTexaco Business and Real Estate Services, Shell Oil Products US, Weatherford International, Inc., EMPCo., etc.) banks, lending agencies, private individuals and/or businesses and corporations, engineering firms, Texas Department of Transportation, City of Houston Department of Public Works and Engineering and Harris County Public Infrastructure Department-Architecture and Engineering Division. Performed site assessments on all types of properties and facilities including vacant and developing properties, office buildings, office/warehouses, machine shops, and industrial properties. Performed PCS PrimeCo., Sprint, NEXTEL, and American Tower Company pad site assessments. Project Budgets \$2,500-\$5,500: Locations: Texas, Louisiana, North Carolina, Ohio, Virginia, West Virginia.
- Performed and managed various site clean-ups (hazardous and non-hazardous materials/items). Sampling events of abandoned drums and containers with unidentified substances, laboratory supervision, obtaining waste codes, arranging pick-up by certified waste hauling enterprises and appropriate final disposal activities.

ASSOCIATIONS AND ORGANIZATIONS

The Society of Texas Environmental Professionals

National Association of Environmental Professionals