July 30, 2018

Wantman Group, Inc.
213 South Dillard St, Suite 210
Winter Garden, Florida 34787

Attn: Mr. Alfredo Rodriguez, PE
Project Manager

RE: Final Level II Field Screening Report (FSR) – Preferred Ponds
SR 710 from US 441 to the L-63 Canal
Okeechobee County, Florida
FPN: 419344-3-32-01
Tierra Project No.: 6511-12-054A

Mr. Rodriguez:

Tierra, Inc. (Tierra) has prepared this Level II Soil and Groundwater Field Screening Report (FSR) for your use as part of the design submittal documents. This report provides results of Level II field screening activities completed at the Preferred Pond locations for the project referenced above.

The Final Level I PSR-CSER for Proposed Ponds dated August 18, 2014 identified the following risk rankings for the selected Preferred Pond sites: Pond 1B "Low," Pond 2A-Option 1 "Low," Pond 3B "No," Pond 4B-Option 2 "No," and Pond 5A "No." Tierra received notification of the Preferred Pond sites in September 2016. The Level II Scope of Services was reviewed and approved by Mr. Jeffery James, DCIC on November 21, 2016.

Should you have any questions, please contact our office at (813) 989-1354.

Respectfully Submitted,

TIERRA, INC.

Clare E. Kramer, PG
Senior Scientist

Donald R. Polanis, CGC, PSSC
Chief Scientist

Final Level II Field Screening Report – Preferred Ponds

SR 710 from US 441 to the L-63 Canal
Okeechobee County, Florida

FDOT District I
FPN: 419344-3-32-01

Prepared for:

Wantman Group, Inc.
2910 Maguire Road, Suite 2008
Ocoee, Florida 34761

Prepared by:

Tierra, Inc.
7351 Temple Terrace Highway
Tampa, Florida 33637

Tierra Project No.: 6511-12-054A

July 30, 2018

Table of Contents

1.0 INTRODUCTION

The Florida Department of Transportation, District One, is conducting a Project Development and Environmental (PD&E) Study regarding the proposed new road construction (extension to the northwest of existing SR 710) of SR 710 from US 441 to L-63 Canal in Okeechobee County, Florida. The project includes constructing an extension of SR 710 around the northeast side of Okeechobee. The new roadway will have a design speed of 50 mph and will be a high-speed urban four-lane roadway, including a 12-foot multi-use path on one side and five foot sidewalk on the other. A Project Location Map is presented on Sheet A-1 in **Appendix A**.

Initially, sixteen (16) Proposed Pond Alternatives were received from the client by email in October 2013. Updated Proposed Pond Alternatives were received from the client in March 2014. A total of twenty-three (23) pond site options were evaluated and the Final Level I PSR-CSER dated August 18, 2014 was submitted to the FDOT. Additionally, Regional Pond 2D was evaluated and a Tech Memo was prepared (as an addendum to the CSER) and dated May 12, 2015. The final pond locations were received by email from the client on September 29, 2016

This report provides Level II soil field screening results for five (5) Preferred Pond sites identified in the 2014 Final Level I PSR-CSER for the Proposed Ponds. The Level II contamination screening evaluation has resulted in the Post-Level II risk rankings for the final pond locations:

Risk Ranking Summary		
Preferred Pond	**Pre-Level II Risk Rank**	**Post-Level II Risk Rank**
Pond 1B	LOW	NO
1.20-Acres. Located west of Taylor Creek, east of North Parrott Avenue (US Highway 441), and north of NW 13th Street. Use as construction staging area in 1994. Current and historic woodlands with an apiary (bee hives). Level II field screening did not indicate arsenic contamination in the tested locations. *Undesirable buried debris was not encountered in the borings completed during Level II field activities.*		
Preferred Pond	**Pre-Level II Risk Rank**	**Post-Level II Risk Rank**
Pond 2A – Option 1	LOW	NO
14.23-Acres. Located north of NE 9th Street, east of Taylor Creek, and west of the L-63 Canal. Current and historic pastureland and woodlands. Level II field screening did not indicate arsenic contamination in the tested locations. *Undesirable buried debris was not encountered in the borings completed during Level II field activities.*		
Preferred Pond	**Pre-Level II Risk Rank**	**Post-Level II Risk Rank**
Pond 3B	NO	NO
2.44-Acres. Located east of NE 32nd Avenue, north and south of SR 70, and west of the L-63 Canal. Current and historic pastureland and wetlands. Level II field screening did not indicate arsenic contamination in the tested locations. *Undesirable buried debris was not encountered in the borings completed during Level II field activities.*		
Preferred Pond	**Pre-Level II Risk Rank**	**Post-Level II Risk Rank**
Pond 4B – Option 2	NO	NO
4.59-Acres. Located west of the L-63 Canal, and north of the existing SR 710. Current and historic woodlands with unpaved trails. Level II field screening did not indicate arsenic contamination in the tested locations. *Undesirable buried debris was not encountered in the borings completed during Level II field activities.*		
Preferred Pond	**Pre-Level II Risk Rank**	**Post-Level II Risk Rank**
Pond 5A	NO	NO
2.62-Acres. Located west of L-63 Canal, and north of SR 710. Current and historic woodlands/wetlands/pastureland. Level II field screening did not indicate arsenic contamination in the tested locations. *Undesirable buried debris was not encountered in the borings completed during Level II field activities.*		

Testing for arsenic in soils at each pond location is required to identify areas of elevated arsenic levels (above the SCTLs), to establish proper management techniques and to determine disposal options of impacted soils. If sites were to receive a risk ranking of "Medium" or "High", Tierra would recommend further Level II testing by the Contamination Assessment and Remediation (CAR) contractor, if required by the DCIC.

For sites post-ranked "No" or "Low", no additional work is recommended at this time. Should a facility's permitting or regulatory status change between now and the time acquisitions are initiated, additional screening should be conducted.

2.0 SCOPE AND METHODOLOGY

The field screening activities at the Preferred Pond sites were conducted in December 2016 and were based on the site specific Level II Scope of Services that included the number of soil samples, boring locations, and analysis testing, reviewed and approved by the DCIC in November 2016, prior to initiating the field activities.

Arsenic based pesticides and herbicides were historically used for vegetation and weed control on farmland such as citrus groves and/or row crops. Based on the current and historical presence of row crops and/or citrus groves at the pond locations, Level II soil screening activities were performed to provide information on the presence or absence of the tested contaminant at the specified sample locations. The sample locations are indicated on the Sample Location Map presented on Sheets A-2 and A-3 in **Appendix A.**

Equipment decontamination, sample collection, field documentation, sample custody, and laboratory analyses were performed in general accordance with the latest version of the "Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOP) for Field Activities." All field services were conducted and overseen by Tierra personnel.

All samples collected for analytical testing were stored in ice and shipped under COC to a Florida certified NELAP environmental laboratory (Pace Analytical Services, LLC – Laboratory Certification ID# E83079). The full laboratory analytical report is included in **Appendix C**.

The methodology of the Level II field screening activities at the Preferred Pond sites identified for this project, are described below.

Boring Installation and Soil Sampling

Utilizing a stainless-steel hand auger, a total of twenty-two (22) auger borings were completed within the designed pond boundaries at five (5) Preferred Pond site locations. Each boring was advanced to a maximum depth of 10 feet below land surface (BLS) or to the groundwater water-table, to visually check for buried debris.

Four (4) soil samples were collected from 0 to 2 feet BLS at each pond site. A total of twenty (20) soil samples were sent for laboratory analysis of *Arsenic by EPA Method 6010.*

Groundwater sampling and analysis at the Preferred Ponds sites was not scoped for this project based on the typical screening protocols (lack of evidence to suggest impact to the groundwater) and approval by the FDOT District One DCIC, Mr. Jeffery James. The potential for contamination impact to the groundwater was not considered to be a concern in this locale and therefore groundwater sampling was not warranted.

3.0 FINDINGS

Tierra analyzed the data collected to determine whether levels of target analytes exceeded the FDEPs Soil Cleanup Target Levels (SCTL) contained in Chapter 62-777 FAC. The results of the laboratory analysis were compared to the SCTL for both Residential and Commercial/Industrial Direct Exposure (RDE and C/IDE) limits.

The sample locations at the Preferred Pond sites are illustrated on the Sample Location Map presented in **Appendix A**. The Soil Analytical Summary is presented in Table 1 of **Appendix B**. GPS Coordinates for the SBs were recorded and are tabulated in Table 2 of **Appendix B**. The full laboratory report and copy of the COC are included in **Appendix C**. Field notes describing the soil lithology; any buried debris or petroleum odors were documented on Soil Boring Logs and copies are included in **Appendix D**.

Soil Sampling and Analysis

Twenty (20) soil samples (SB-1 through SB-20) were collected between 0 and 2 feet BLS and analyzed for *Arsenic by EPA Method 6010*. The laboratory results indicate:

- None of the 20 samples analyzed were detected in exceedance of the RDE (2.1 mg/kg) or CIDE (12 mg/kg) SCTLs.

- Low levels of Arsenic were detected between the PQL and MDL, in SB-8 (0.39 mg/kg), SB-12 (0.38 mg/kg), and SB-13 (0.45 mg/kg); and above the MDL in SB-10 (0.69 mg/kg). However, all are below the SCTLs.

Visual Observations

The groundwater table was encountered at 4 to 5 feet depths in each of the borings completed.

A small amount of discarded material was encountered in borings SB-13, SB-13A, SB-14, and SB-14A located in the central area of the southern portion of Pond 4B-Option 2. Fragments of glass and pieces of metal rods where noted from 0 to 2 feet depth in these boring locations.

4.0 CONCLUSIONS

Based on the methodology and findings discussed in this report, Level II field screening indicates that contaminants of concern within the soils in the tested locations have not been identified.

- Arsenic was not detected in exceedance of the RDE (2.1 mg/kg) or CIDE (12 mg/kg) SCTLs in the 20 samples analyzed.

- Groundwater samples were not collected for laboratory analysis.

- No undesirable buried debris or petroleum odors were encountered in the borings completed during Level II field screening activities.

- In Pond 4B-Option 2, de minimis amounts of discarded material was observed from 0 to 1 feet depth in borings SB-13, SB-13A, SB-14, and SB-14A.

5.0 RECOMMENDATIONS

For sites ranked “No” or “Low”, no additional work is recommended at this time. Should a facility’s permitting or regulatory status change between now and the time acquisitions are initiated, additional screening should be conducted.

Testing for arsenic in soils at each pond location is required to identify areas of elevated arsenic levels (above the SCTLs), to establish proper management techniques and to determine disposal options of impacted soils.

- Soils that are identified to contain less than 2.1 mg/kg total arsenic RDE SCTL are unrestricted in the reuse and placement.

- The material observed in the southern portion of Pond 4B-Option 2 is not considered to be a contamination concern but should be removed and properly disposed of prior to construction activities.

No additional assessment is recommended.

6.0 LIMITATIONS

This study was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our course of work and under the scope of work authorized by the client. This report provides analytical results for a limited number of sample locations and should not be used to represent an assessment, but rather a Level II field screening that identifies the presence or absence of a tested contaminant. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by our client for specific application to their project as discussed above. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Tierra does not warrant the work of reporting agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, expressed or implied is made.

Appendix A

Sheet 1 – Project Location Map
Sheet 2 – Sample Location Map

PROJECT LOCATION MAP

SOURCE: FDOT SURVEY AND MAPPING DATED 2011

REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION 6486	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 710 FROM US 441 TO L-63 CANAL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-12-054A		SR 710	OKEECHOBEE	419344-3-32-01		A-1

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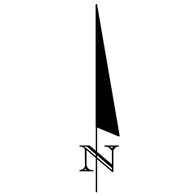
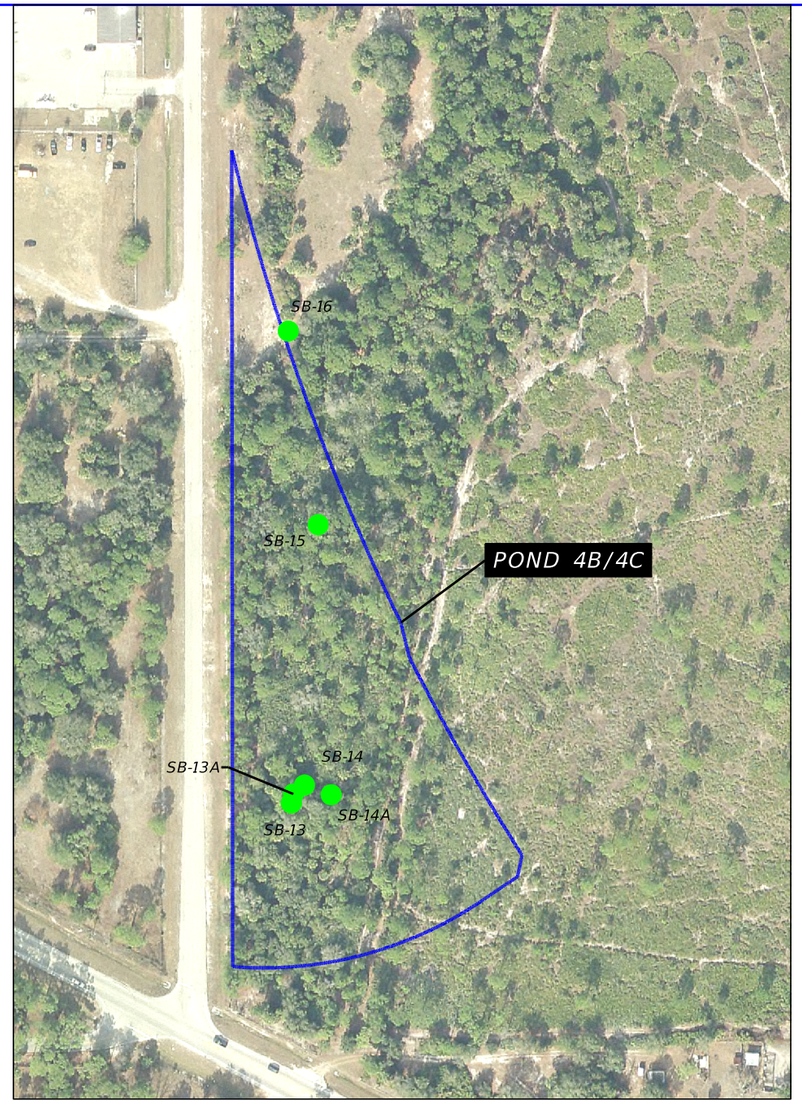


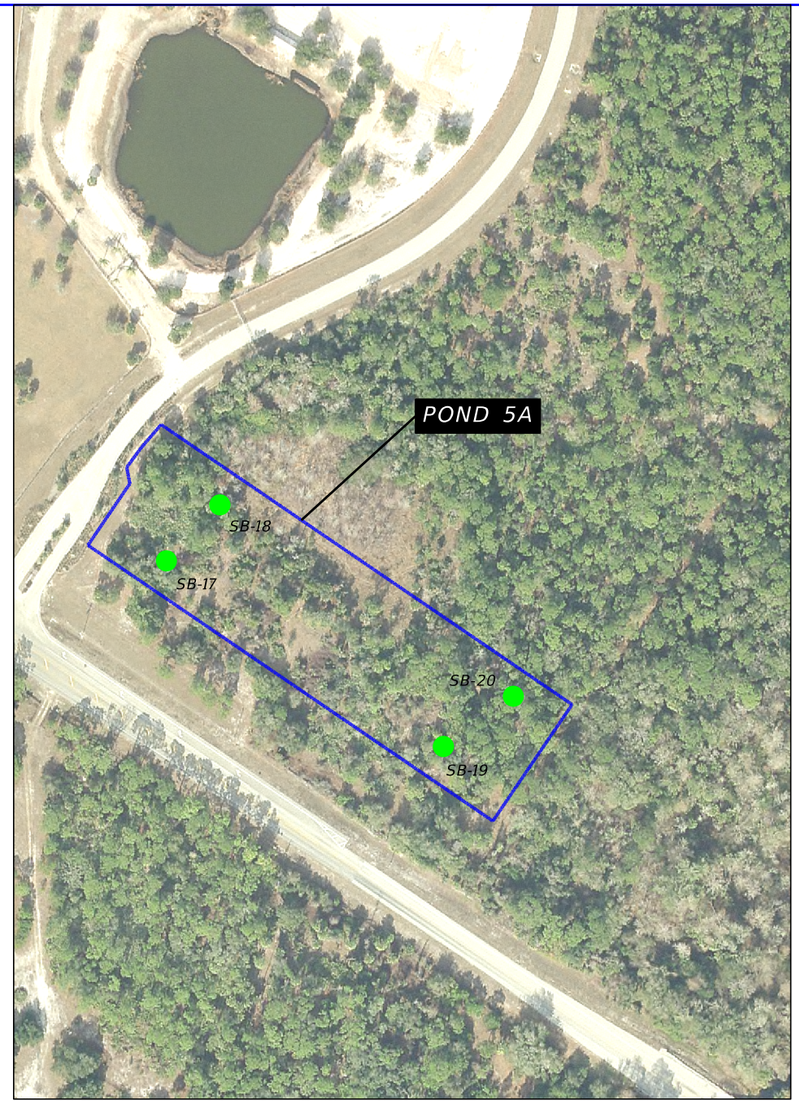
SOURCE: FDOT SURVEY AND MAPPING DATED 2011

SAMPLE LOCATION MAP

SAMPLE LOCATION

REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION 6486	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 710 FROM US 441 TO L-63 CANAL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-12-054A		SR 710	OKEECHOBEE	419344-3-32-01		A-2





N

0 50 200

Feet

SAMPLE LOCATION MAP

SOURCE: FDOT SURVEY AND MAPPING DATED 2011

SAMPLE LOCATION

REVISIONS				TIERRA, INC.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 710 FROM US 441 TO L-63 CANAL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION 6486	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		A-3
			TIERRA PROJECT NO.: 6511-12-054A		SR 710	OKEECHOBEE	419344-3-32-01		

bsawaska 1/10/2017 11:31:17 AM J:\6511\2012 Files\6511-12-054 SR 710\Microstation\pdgeoEnvBLP02.dgn

Appendix B

Table 1 – Soil Analytical Summary
Table 2 – GPS Coordinates

TABLE 1 – SOIL ANALYTICAL SUMMARY

TIERRA PROJECT NO: 6511-12-054A

SAMPLE INFORMATION				EPA METHOD 6010 (mg/kg)
Pond Name	**Sample ID**	**Sample Depth**	**Date Collected**	**Arsenic**
			Residential Direct Exposure SCTL (mg/kg) →	*2.1*
			Commercial/Industrial Direct Exposure SCTL (mg/kg) →	*12.0*
			Leachability SCTL (mg/kg) →	*SPLP*
Pond 1B	**SB-1**	0-2 feet	12/6/16	0.35 U
Pond 1B	**SB-2**	0-2 feet	12/6/16	0.30 U
Pond 1B	**SB-3**	0-2 feet	12/6/16	0.35 U
Pond 1B	**SB-4**	0-2 feet	12/6/16	0.30 U
Pond 2A-Option 1	**SB-5**	0-2 feet	12/6/16	0.28 U
Pond 2A-Option 1	**SB-6**	0-2 feet	12/6/16	0.27 U
Pond 2A-Option 1	**SB-7**	0-2 feet	12/6/16	0.36 U
Pond 2A-Option 1	**SB-8**	0-2 feet	12/6/16	**0.39 I**
Pond 3B	**SB-9**	0-2 feet	12/6/16	0.32 U
Pond 3B	**SB-10**	0-2 feet	12/6/16	**0.69**
Pond 3B	**SB-11**	0-2 feet	12/6/16	0.27 U
Pond 3B	**SB-12**	0-2 feet	12/6/16	**0.38 I**
Pond 4B-Option 2	**SB-13**	0-2 feet	12/6/16	**0.45 I**
Pond 4B-Option 2	**SB-14**	0-2 feet	12/6/16	0.29 U
Pond 4B-Option 2	**SB-15**	0-2 feet	12/6/16	0.32 U
Pond 4B-Option 2	**SB-16**	0-2 feet	12/6/16	0.27 U
Pond 5A	**SB-17**	0-2 feet	12/6/16	0.27 U
Pond 5A	**SB-18**	0-2 feet	12/6/16	0.29 U
Pond 5A	**SB-19**	0-2 feet	12/6/16	0.31 U
Pond 5A	**SB-20**	0-2 feet	12/6/16	0.31 U

NOTES:
mg/kg = milligrams per kilogram
SCTL = Soil Cleanup Target Level per Ch. 62-777, F.A.C.
U = Analyte not detected above noted concentration
I = Analyte detected between PQL and MDL; see lab report
BOLD concentration exceeds MDL
Highlighted concentration exceeds SCTL

TABLE 2 – GPS COORDINATES FOR BORINGS

TIERRA PROJECT NO: 6511-12-054A

Pond Name	Boring No.	Latitude	Longitude
Pond 1B	**SB-1**	27.2571243	-80.8274177
Pond 1B	**SB-2**	27.2570954	-80.8267112
Pond 1B	**SB-3**	27.2574110	-80.8273652
Pond 1B	**SB-4**	27.2574774	-80.8268771
Pond 2A-Option 1	**SB-5**	27.2587891	-80.8140458
Pond 2A-Option 1	**SB-6**	27.2587737	-80.8123055
Pond 2A-Option 1	**SB-7**	27.2600076	-80.8129738
Pond 2A-Option 1	**SB-8**	27.2603979	-80.8125652
Pond 3B	**SB-9**	27.2524804	-80.7929520
Pond 3B	**SB-10**	27.2527881	-80.7925552
Pond 3B	**SB-11**	27.2529194	-80.7930908
Pond 3B	**SB-12**	27.2530302	-80.7923218
Pond 4B-Option 2	**SB-13**	27.2446320	-80.7933240
Pond 4B-Option 2	**SB-13A**	27.2446640	-80.7933160
Pond 4B-Option 2	**SB-14**	27.2446950	-80.7932720
Pond 4B-Option 2	**SB-14A**	27.2446610	-80.7931670
Pond 4B-Option 2	**SB-15**	27.2456123	-80.7932164
Pond 4B-Option 2	**SB-16**	27.2462946	-80.7933328
Pond 5A	**SB-17**	27.2388684	-80.7832076
Pond 5A	**SB-18**	27.2390651	-80.7829964
Pond 5A	**SB-19**	27.2382126	-80.7821163
Pond 5A	**SB-20**	27.2383891	-80.7818402

NOTES:

Geographic Coordinate System:	GCS_WGS_84
Geodetic Datum:	D_WGS_84
Prime Meridian:	Greenwich
Angular Unit:	Degree

The World Geodetic System 1984 (WGS84) is the reference coordinate system used by the Global Positioning System (GPS). WGS 84 was established in 1984 and last revised in 2004. The latitude and longitude of a point are reported in the Decimal Degrees format.

Appendix C

Laboratory Analytical Report

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

December 22, 2016

Clare Kramer
Tierra, Inc.
7351 Temple Terrace Highway
Tampa, FL 33637

RE: Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Dear Clare Kramer:
Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

LA Palmer

Lori Palmer
lori.palmer@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

CERTIFICATIONS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

SAMPLE SUMMARY

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35281680001	**SB-1**	Solid	12/06/16 11:56	12/07/16 12:07
35281680002	**SB-2**	Solid	12/06/16 12:10	12/07/16 12:07
35281680003	**SB-3**	Solid	12/06/16 12:23	12/07/16 12:07
35281680004	**SB-4**	Solid	12/06/16 12:40	12/07/16 12:07
35281680005	**SB-5**	Solid	12/06/16 13:25	12/07/16 12:07
35281680006	**SB-6**	Solid	12/06/16 13:40	12/07/16 12:07
35281680007	**SB-7**	Solid	12/06/16 13:56	12/07/16 12:07
35281680008	**SB-8**	Solid	12/06/16 14:08	12/07/16 12:07
35281680009	**SB-9**	Solid	12/06/16 14:36	12/07/16 12:07
35281680010	**SB-10**	Solid	12/06/16 14:47	12/07/16 12:07
35281680011	**SB-11**	Solid	12/06/16 14:58	12/07/16 12:07
35281680012	**SB-12**	Solid	12/06/16 15:11	12/07/16 12:07
35281680013	**SB-13**	Solid	12/07/16 08:12	12/07/16 12:07
35281680014	**SB-14**	Solid	12/07/16 08:36	12/07/16 12:07
35281680015	**SB-15**	Solid	12/07/16 08:50	12/07/16 12:07
35281680016	**SB-16**	Solid	12/07/16 09:12	12/07/16 12:07
35281680017	**SB-17**	Solid	12/07/16 09:32	12/07/16 12:07
35281680018	**SB-18**	Solid	12/07/16 09:47	12/07/16 12:07
35281680019	**SB-19**	Solid	12/07/16 10:01	12/07/16 12:07
35281680020	**SB-20**	Solid	12/07/16 10:17	12/07/16 12:07

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

SAMPLE ANALYTE COUNT

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35281680001	**SB-1**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680002	**SB-2**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680003	**SB-3**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680004	**SB-4**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680005	**SB-5**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680006	**SB-6**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680007	**SB-7**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680008	**SB-8**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680009	**SB-9**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680010	**SB-10**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680011	**SB-11**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680012	**SB-12**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680013	**SB-13**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680014	**SB-14**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680015	**SB-15**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680016	**SB-16**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680017	**SB-17**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680018	**SB-18**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O
35281680019	**SB-19**	EPA 6010	JTJ	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	DRC	1	PASI-O
35281680020	**SB-20**	EPA 6010	JTJ	1	PASI-O
		ASTM D2974-87	DRC	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-1 **Lab ID: 35281680001** Collected: 12/06/16 11:56 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.35 U**	mg/kg	0.70	0.35	1	12/14/16 06:50	12/17/16 01:33	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.1**	%	0.10	0.10	1		12/14/16 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-2 **Lab ID: 35281680002** Collected: 12/06/16 12:10 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.30 U**	mg/kg	0.60	0.30	1	12/14/16 06:50	12/17/16 01:51	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.3**	%	0.10	0.10	1		12/14/16 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-3 **Lab ID: 35281680003** Collected: 12/06/16 12:23 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.35 U**	mg/kg	0.69	0.35	1	12/14/16 06:50	12/17/16 01:55	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.4**	%	0.10	0.10	1		12/14/16 11:00		J(D6)

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-4 **Lab ID: 35281680004** Collected: 12/06/16 12:40 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.30 U**	mg/kg	0.61	0.30	1	12/14/16 06:50	12/17/16 02:00	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.0**	%	0.10	0.10	1		12/14/16 11:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-5 **Lab ID: 35281680005** Collected: 12/06/16 13:25 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.28 U**	mg/kg	0.57	0.28	1	12/14/16 06:50	12/17/16 02:04	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.6**	%	0.10	0.10	1		12/14/16 11:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-6 **Lab ID: 35281680006** Collected: 12/06/16 13:40 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.27 U**	mg/kg	0.54	0.27	1	12/14/16 06:50	12/17/16 02:18	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.4**	%	0.10	0.10	1		12/14/16 11:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-7 **Lab ID: 35281680007** Collected: 12/06/16 13:56 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.36 U**	mg/kg	0.71	0.36	1	12/14/16 06:50	12/17/16 02:22	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.1**	%	0.10	0.10	1		12/14/16 11:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-8 **Lab ID: 35281680008** Collected: 12/06/16 14:08 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.39 I**	mg/kg	0.60	0.30	1	12/14/16 06:50	12/17/16 02:27	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.9**	%	0.10	0.10	1		12/14/16 11:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-9 **Lab ID: 35281680009** Collected: 12/06/16 14:36 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.32 U**	mg/kg	0.64	0.32	1	12/14/16 06:50	12/17/16 02:31	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.7**	%	0.10	0.10	1		12/14/16 11:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-10 **Lab ID: 35281680010** Collected: 12/06/16 14:47 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.69**	mg/kg	0.54	0.27	1	12/14/16 06:50	12/17/16 02:36	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.5**	%	0.10	0.10	1		12/14/16 11:01		

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-11 **Lab ID: 35281680011** Collected: 12/06/16 14:58 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.27 U**	mg/kg	0.53	0.27	1	12/14/16 06:50	12/17/16 02:40	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.4**	%	0.10	0.10	1		12/14/16 11:01		

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-12 **Lab ID: 35281680012** Collected: 12/06/16 15:11 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.38 I**	mg/kg	0.71	0.35	1	12/14/16 06:50	12/17/16 02:45	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**27.1**	%	0.10	0.10	1		12/14/16 11:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-13 **Lab ID: 35281680013** Collected: 12/07/16 08:12 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.45 I**	mg/kg	0.57	0.29	1	12/14/16 06:50	12/17/16 02:49	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.7**	%	0.10	0.10	1		12/14/16 11:02		

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-14 **Lab ID: 35281680014** Collected: 12/07/16 08:36 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.29 U**	mg/kg	0.59	0.29	1	12/14/16 06:50	12/17/16 02:54	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.2**	%	0.10	0.10	1		12/14/16 11:02		

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-15 **Lab ID: 35281680015** Collected: 12/07/16 08:50 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.32 U**	mg/kg	0.63	0.32	1	12/14/16 06:50	12/17/16 02:59	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.1**	%	0.10	0.10	1		12/14/16 11:02		

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-16 **Lab ID: 35281680016** Collected: 12/07/16 09:12 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.27 U**	mg/kg	0.54	0.27	1	12/14/16 06:50	12/17/16 03:12	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.5**	%	0.10	0.10	1		12/14/16 11:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-17 **Lab ID: 35281680017** Collected: 12/07/16 09:32 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.27 U**	mg/kg	0.55	0.27	1	12/14/16 06:50	12/17/16 03:17	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.9**	%	0.10	0.10	1		12/14/16 11:02		

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-18 **Lab ID: 35281680018** Collected: 12/07/16 09:47 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.29 U**	mg/kg	0.58	0.29	1	12/14/16 06:50	12/17/16 03:21	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.1**	%	0.10	0.10	1		12/14/16 11:02		

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-19 **Lab ID: 35281680019** Collected: 12/07/16 10:01 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.31 U**	mg/kg	0.61	0.31	1	12/14/16 06:50	12/17/16 03:26	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.3**	%	0.10	0.10	1		12/14/16 11:02		

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ANALYTICAL RESULTS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Sample: SB-20 **Lab ID: 35281680020** Collected: 12/07/16 10:17 Received: 12/07/16 12:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.31 U**	mg/kg	0.62	0.31	1	12/14/16 12:24	12/22/16 10:07	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.5**	%	0.10	0.10	1		12/14/16 11:02		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

QC Batch: 338388 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35281680001, 35281680002, 35281680003, 35281680004, 35281680005, 35281680006, 35281680007, 35281680008, 35281680009, 35281680010, 35281680011, 35281680012, 35281680013, 35281680014, 35281680015, 35281680016, 35281680017, 35281680018, 35281680019

METHOD BLANK: 1813684 Matrix: Solid
Associated Lab Samples: 35281680001, 35281680002, 35281680003, 35281680004, 35281680005, 35281680006, 35281680007, 35281680008, 35281680009, 35281680010, 35281680011, 35281680012, 35281680013, 35281680014, 35281680015, 35281680016, 35281680017, 35281680018, 35281680019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.31 U	0.62	0.31	12/17/16 01:24	

LABORATORY CONTROL SAMPLE: 1813685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	13.7	12.7	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1813686 1813687

Parameter	Units	35281680001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	0.35 U	16.9	17.8	13.3	13.8	78	77	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

QC Batch: 338516
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET Solid
Associated Lab Samples: 35281680020

LABORATORY CONTROL SAMPLE: 1814148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	13.9	12.7	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1814149 1814150

Parameter	Units	35281816006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	9.3	21.4	16.2	26.1	18.6	79	58	75-125	34	20	J(M1), J(R1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1814256 1814257

Parameter	Units	35281816007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5.0	22.9	27.5	26.9	31.6	96	97	75-125	16	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

QC Batch: 338449 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 35281680001, 35281680002, 35281680003, 35281680004, 35281680005, 35281680006, 35281680007, 35281680008, 35281680009, 35281680010, 35281680011, 35281680012, 35281680013, 35281680014, 35281680015, 35281680016, 35281680017, 35281680018, 35281680019, 35281680020

SAMPLE DUPLICATE: 1813914

Parameter	Units	35279909001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	95.7	94.7	1	10	

SAMPLE DUPLICATE: 1813915

Parameter	Units	35281680003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.4	9.8	15	10	J(D6)

SAMPLE DUPLICATE: 1813916

Parameter	Units	35281680012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.1	25.2	7	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SR710 Ponds- 6511-12054A
Pace Project No.: 35281680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35281680001	**SB-1**	EPA 3050	338388	EPA 6010	338508
35281680002	**SB-2**	EPA 3050	338388	EPA 6010	338508
35281680003	**SB-3**	EPA 3050	338388	EPA 6010	338508
35281680004	**SB-4**	EPA 3050	338388	EPA 6010	338508
35281680005	**SB-5**	EPA 3050	338388	EPA 6010	338508
35281680006	**SB-6**	EPA 3050	338388	EPA 6010	338508
35281680007	**SB-7**	EPA 3050	338388	EPA 6010	338508
35281680008	**SB-8**	EPA 3050	338388	EPA 6010	338508
35281680009	**SB-9**	EPA 3050	338388	EPA 6010	338508
35281680010	**SB-10**	EPA 3050	338388	EPA 6010	338508
35281680011	**SB-11**	EPA 3050	338388	EPA 6010	338508
35281680012	**SB-12**	EPA 3050	338388	EPA 6010	338508
35281680013	**SB-13**	EPA 3050	338388	EPA 6010	338508
35281680014	**SB-14**	EPA 3050	338388	EPA 6010	338508
35281680015	**SB-15**	EPA 3050	338388	EPA 6010	338508
35281680016	**SB-16**	EPA 3050	338388	EPA 6010	338508
35281680017	**SB-17**	EPA 3050	338388	EPA 6010	338508
35281680018	**SB-18**	EPA 3050	338388	EPA 6010	338508
35281680019	**SB-19**	EPA 3050	338388	EPA 6010	338508
35281680020	**SB-20**	EPA 3050	338516	EPA 6010	338661
35281680001	**SB-1**	ASTM D2974-87	338449		
35281680002	**SB-2**	ASTM D2974-87	338449		
35281680003	**SB-3**	ASTM D2974-87	338449		
35281680004	**SB-4**	ASTM D2974-87	338449		
35281680005	**SB-5**	ASTM D2974-87	338449		
35281680006	**SB-6**	ASTM D2974-87	338449		
35281680007	**SB-7**	ASTM D2974-87	338449		
35281680008	**SB-8**	ASTM D2974-87	338449		
35281680009	**SB-9**	ASTM D2974-87	338449		
35281680010	**SB-10**	ASTM D2974-87	338449		
35281680011	**SB-11**	ASTM D2974-87	338449		
35281680012	**SB-12**	ASTM D2974-87	338449		
35281680013	**SB-13**	ASTM D2974-87	338449		
35281680014	**SB-14**	ASTM D2974-87	338449		
35281680015	**SB-15**	ASTM D2974-87	338449		
35281680016	**SB-16**	ASTM D2974-87	338449		
35281680017	**SB-17**	ASTM D2974-87	338449		
35281680018	**SB-18**	ASTM D2974-87	338449		
35281680019	**SB-19**	ASTM D2974-87	338449		
35281680020	**SB-20**	ASTM D2974-87	338449		

WO# : 35281680

35281680

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Tierra, Inc.	Report To: Awad, Sammy	Attention:	
Address: 7351 Temple Terrace Highway	Copy To:	Company Name:	
Tampa, FL 33637		Address:	Regulatory Agency
Email: CKramer@tierraeng.com	Purchase Order #:	Pace Quote:	
Phone: Fax:	Project Name: SR710 Ponds - 6511-12-054A	Pace Project Manager: lori.palmer@pacelabs.com,	State / Location
Requested Due Date:	Project #:	Pace Profile #: 7064-4	FL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Arsenic - 6010	Residual Chlorine (Y/N)
1	SB-1	SL	C	12/6/16		12/6/16	1156		1	✓									✓	
2	SB-2						1210		1	✓									✓	
3	SB-3						1225		1	✓									✓	
4	SB-4						1240		1	✓									✓	
5	SB-5						1325		1	✓									✓	
6	SB-6						1340		1	✓									✓	
7	SB-7						1356		1	✓									✓	
8	SB-8						1408		1	✓									✓	
9	SB-9						1436		1	✓									✓	
10	SB-10						1447		1	✓									✓	
11	SB-11						1458		1	✓									✓	
12	SB-12	↓	↓			↓	1511		1	✓									✓	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Empty Containers	Bottles Pack	11-30	1745	Sam Awad Tierra	11-30	1745				
	Sam Awad Tierra	12-7-16	1207	Client to Pace	12/7/16	1207	21.9	N	N	
	Client to Pace	12/7/16	2000	FLX	12/7/16	2000				
				JM T-277	12/7/16	23:40	26.2	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Sammy Awad					
SIGNATURE of SAMPLER:	Sam Awad	DATE Signed: 12/7/16				

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:	Section C Invoice Information:	
Company:	Tierra, Inc.	Report To: Awad, Sammy	Attention:	
Address:	7351 Temple Terrace Highway	Copy To:	Company Name:	
Tampa, FL 33637			Address:	Regulatory Agency
Email:	CKramer@tierraeng.com	Purchase Order #:	Pace Quote:	
Phone:	Fax:	Project Name: SR710 Ponds - 6511-12-054A	Pace Project Manager: lori.palmer@pacelabs.com,	State / Location
Requested Due Date:		Project #:	Pace Profile #: 7064-4	FL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Arsenic - 6010	Residual Chlorine (Y/N)
1	SB-13	SL	C			12/7/16	0812		1	✓									✓	
2	SB-14						0836		1	✓									✓	
3	SB-15						0850		1	✓									✓	
4	SB-16						0912		1	✓									✓	
5	SB-17						0932		1	✓									✓	
6	SB-18						0947		1	✓									✓	
7	SB-19						1001		1	✓									✓	
8	SB-20						1017		1	✓									✓	
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Empty Containers	[illegible] DAH	11-30	1545	Sammy Awad / Tierra	11-30	1545				
	Sammy Awad / Tierra	11-7-16	1207	Chris Clark / Pace	12/7/16	1207	21.9	N	N	
	Chris Clark / Pace	12/7/16	2000	FLX	12/7/16	2000				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Sammy Awad

SIGNATURE of SAMPLER: Sammy Awad DATE Signed: 12/7/16

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 10, 2016
	Document No.: F-FL-C-007 rev. 10	Issuing Authority: Pace Florida Quality Office

Sam (SCUR)

WO# : 35281680

PM: LAP Due Date: 12/14/16

CLIENT: 37-TIETPA

Project #

Project Manager:

Client:

Date and Initials of person:
Examining contents:
Label:
Deliver:
pH:

Thermometer Used: T-277 Date 12/7/16 Time 2340 Initials: AS

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Cooler #1 Temp. °C	2.6 (Visual)	+0.1 (Correction Factor)	2.7 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp. °C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp. °C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp. °C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp. °C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp. °C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

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

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No Ice: Wet Blue (None)

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

		Comments:
Chain of Custody Present	☑Yes ☐No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐No ☐N/A	
Rush TAT requested on COC	☐Yes ☑No ☐N/A	
Sufficient Volume	☑Yes ☐No ☐N/A	
Correct Containers Used	☑Yes ☐No ☐N/A	
Containers Intact	☑Yes ☐No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐No ☐N/A	
All containers needing acid/base preservation have been checked.	☐Yes ☐No ☑N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐Yes ☐No ☑N/A	Preservative Lot #/Trace # Date Time Initials
Headspace in VOA Vials? (>6mm).	☐Yes ☐No ☑N/A	
Trip Blank Present:	☐Yes ☐No ☑N/A	

Client Notification/ Resolution:

Person Contacted: Date/Time

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Appendix D

Soil Boring Logs

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 1B

Boring/Well Number: SB- 1	Permit Number: NA		FDEP Facility Identification Number: NA
Site Name: 6511-12-054A SR 710 from US 441 to the L-63 Canal	Borehole Start Date: 12/6/16 End Date: 12/6/16	Borehole Start Time: 1150 End Time: 1156	☑ AM ☐ PM ☑ AM ☐ PM
Environmental Contractor: TIERRA, INC.	Geologist's Name: Clare Kramer		Environmental Technician's Name: Sammy Awad
Drilling Company: TIERRA, INC.	Pavement Thickness (inches): NA	Borehole Diameter (inches): 3.25	Borehole Depth (feet): 6
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 4 1/2	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other
(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-1						1	Br F/S w/organics		D	SB-1@ 0-2 ft
							2	Br/gray F/S			
							3				
							4	Br silty sand		W	
							5				
							6	EOB		S	
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 1B

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 2	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/12	Borehole Start Time: 1200	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/6/12	End Time: 1210	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4 1/2	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-2						1	Br F/S		D	SB-2@0-2Ft
							2				
							3	Lgt Br F/S			
							4			M	
							5	Br. F/S			
							6	EOB		S	
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 1B

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 3	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/16	Borehole Start Time: 1215	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/6/16	End Time: 1225	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4 1/2	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-3						1	Dk Br F/S w/ organics		D	SB-3@0-2ft
							2	Br F/S			
							3				
							4	Br silty Sand			
							5	▼		W	
							6	EOB		S	
							7				
							8				
							9				
							10	No debris encountered			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Pond site 1B

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 4 Pond 2B	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/16 End Date: 12/6/16	Borehole Start Time: 1230 End Time: 1240	☐ AM ☑ PM ☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal			

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4 1/2	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other
(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-4						1	Br F/S		D	SB-4@0-2ft
↓	↓						2	L.gr Br F/S		↓	
							3	↓			
							4	Br F/S		W	
							5	↓		↓	
							6	EOB		S	
							7				
							8				
							9				
							10	No debris encountered			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 2A, Option 1

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 5	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/16	Borehole Start Time: 1315	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/6/16	End Time: 1325	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	5

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-5						1	Br. F/S		D	SB-5@0-2ft
							2	Gr F/S			
							3				
							4	▼ Grand Br F/S		W	
							5	EOB		S	
							6				
							7				
							8				
							9				
							10	No debris encountered			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 2A, Option 1

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 6	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/14	Borehole Start Time: 1330	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/6/14	End Time: 1340	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	5

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-6						1	Br F/S		D	SB-6@0-2ft
							2	Gr F/S			
							3	Br F/S			
							4	▼		W	
							5	EOB		S	
							6				
							7				
							8				
							9				
							10	No debris encountered			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond 3in 2A, option 1

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 7	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/16 End Date: 12/6/16	Borehole Start Time: 1345 End Time: 1350	☐ AM ☑ PM ☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal			

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	5

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-7						1	Br F/S		D	SB-7@0-2FT
↓	↓						2	Br and Gr F/S		↓	
							3	Gr F/S			
							4	▼ Br F/S		W	
							5	EOB		S	
							6				
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 2A, option 1

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 8	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/16	Borehole Start Time: 1400	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/6/16	End Time: 1408	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	5

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-8						1	Br F/S		D	SB-8@0-2ft
							2	Gr F/S			
							3	Br slightly Silty Sand			
							4	Br F/S		W	
							5	EOB		S	
							6				
							7				
							8	No debris encountered			
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond site 38

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 9	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/16	Borehole Start Time: 1430	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/6/16	End Time: 1436	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4 1/2	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-9						1	Br. F/S		D	SB-9@0-2FT
							2	Gr F/S			
							3				
							4	Br. Silty Sand			
							5				
							6	EOB		S	
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 33

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 10	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/4/14	Borehole Start Time: 1440	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/4/14	End Time: 1447	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4 1/2	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-10						1	Br F/S		D	SB-1000-2A
							2	Gr F/S			
							3	Lgt Br F/S			
							4	Br Silty Sand		M	
							5				
							6	EOB		S	
							7				
							8				
							9				
							10	No debris encountered			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 3B

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 11	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/16	Borehole Start Time: 1452	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/6/16	End Time: 1458	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4 1/2	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-11						1	Br F/S		D	SB-11@0-2ft
							2	Gr F/S			
							3	Br. F/S			
							4	Lgt. br. F/S			
							5	Br Silty Sand		W	
							6	EOB		S	
							7				
							8				
							9				
							10	No debris encountered			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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BORING LOG

Pond Site 38

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 12	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/6/16	Borehole Start Time: 1504	☐ AM ☑ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/6/16	End Time: 1511	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4' 12	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-12						1	Br F/S		D	SB-12@0-2ft
							2	Gr F/S			
							3				
							4	Br S:Lt Sand			
							5			W	
							6	EOB		S	
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Pond Site 48, option 2

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 13	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/7/16	Borehole Start Time: 0810	☑ AM ☐ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/7/16	End Time: 0817	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	5	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-13						1	Gr F/S Glass fragments		D	SB-13@0-2ft
							2	Lt Br F/S			
							3				
							4	Br F/S			
							5			M	
							6	EOB		S	
							7				
							8	Glass fragment debris			
							9	encountered from			
							10	surface to 1ft			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Pond Site 4B, Option 2

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 13A	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12-7-16	Borehole Start Time: 1025	☐ AM ☐ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12-7-16	End Time: 1027	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	2

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	GWE	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	Br. Fine w/ glass fragment debris		D	
							2	Br/Gr. Fine			
								EOB			
							3				
							4				
							5				
							6				
							7				
							8				
							9	Glass fragment debris			
							10	found from surface to 1ft BLS			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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BORING LOG

Pond Site 4B, option 2

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 14	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/7/16 End Date: 12/7/16	Borehole Start Time: 0825 End Time: 0836	☐ AM ☐ PM ☐ AM ☐ PM
SR 710 from US 441 to the L-63 Canal			

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	5	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-14						1	Gr F/S Glass fragments sm. Metal rod		D	SB-14@0-2ft
↓	↓						2	Lgt Br F/S		↓	
							3				
							4	Br F/S			
							5			W	
							6	EOB		S	
							7				
							8	Glass fragment debris			
							9	and small metal rod			
							10	encountered from surface to 1ft.			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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BORING LOG

Pond Site 4B, option 2

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 14A	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12-7-16	Borehole Start Time: 1030	☑ AM ☐ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12-7-16	End Time: 1032	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	2

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	GWE	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	Br. Fine		D	
↓							2	Br./Gr. Fine		↓	
								EOB			
							3				
							4				
							5				
							6				
							7				
							8				
							9	No odors encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Pond Site 4B, option 2

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 15	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/7/16	Borehole Start Time: 0842	☑ AM ☐ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/7/16	End Time: 0850	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	5	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-15						1	Gr F/S		D	SB-15@0-2ft
							2	Lgt Br F/S			
							3				
							4	Br F/S			
							5	▼		W	
							6	EOB		S	
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Pond Site 4B, option 2

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 16	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/7/16	Borehole Start Time: 0902	☑ AM ☐ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/7/16	End Time: 0912	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	5	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-16						1	Gr F/S		D	SB-16@0-2ft
							2	Lgt Br F/S			
							3	Tn F/S			
							4				
							5	Br F/S		W	
							6	EOB		S	
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Pond Site 59

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 17	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/7/16	Borehole Start Time: 0921	☑ AM ☐ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/7/16	End Time: 0932	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	5

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-17						1	Gr F/S		D	SB-1700-2FT
							2	Br F/S			
							3	Lgt Br F/S			
							4	Lgt br Silty Sand		M	
							5	EOB		S	
							6				
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Pond Site 5A

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 18	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/7/16	Borehole Start Time: 0938	☑ AM ☐ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/7/16	End Time: 0947	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	5

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB 18						1	Gr F/S		D	SB-18 0-2 P
							2	Br F/S			
							3	Lgt Br F/S			
							4	Br Slightly Silty Sand		M	
							5	EOB		S	
							6				
							7				
							8				
							9	No debris encountered			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Pond site SP

Boring/Well Number: SB- 19	Permit Number: NA		FDEP Facility Identification Number: NA
Site Name: 6511-12-054A SR 710 from US 441 to the L-63 Canal	Borehole Start Date: 12/7/16 End Date: 12/7/16	Borehole Start Time: 0953 End Time: 1001	☑ AM ☐ PM ☑ AM ☐ PM
Environmental Contractor: TIERRA, INC.	Geologist's Name: Clare Kramer		Environmental Technician's Name: Sammy Awad
Drilling Company: TIERRA, INC.	Pavement Thickness (inches): NA	Borehole Diameter (inches): 3.25	Borehole Depth (feet): 5
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 4	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other
(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-19						1	Gr Fls		D	SB-19 @0-2FT
							2	Br Fls			
							3	Dr Br Fls			
							4	Lgt Br Fls		W	
							5	5.0 EOB		↓5	
							6				
							7				
							8	No debris encountered			
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Pond Site 5A

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB- 20	NA	NA

Site Name: 6511-12-054A	Borehole Start Date: 12/7/16	Borehole Start Time: 1006	☑ AM ☐ PM
SR 710 from US 441 to the L-63 Canal	End Date: 12/7/16	End Time: 1017	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
TIERRA, INC.	Clare Kramer	Sammy Awad

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
TIERRA, INC.	NA	3.25	5

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA	4	NA	NA ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	SB-20						1	Gr F/S		D	SB-20 @ 0-4FT
							2	Br F/S			
							3	Lgt Br F/S			
							4	Gr F/S		W	
							5	EOB		S	
							6				
							7				
							8	No debris encountered			
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

END