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.

les.

Clare E. Kramer, PG Senior Scientist

Donald R. Polanis, CGC, PSSC Chief Scientist

Tierra, Inc. 7351 Temple Terrace Highway • Tampa, Florida 33637 (813) 989-1354 • Fax (813) 989-1355 Florida Certificate No. 6486

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	1
2.0	SCOPE AND METHODOLOGY	2
3.0	FINDINGS	3
4.0	CONCLUSIONS	3
5.0	RECOMMENDATIONS	4
6.0	LIMITATIONS	4

Appendix A

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

Appendix B

Table 1 – Soil Analytical SummaryTable 2 – GPS Coordinates

Appendix C Laboratory Analytical Report

Appendix D

Soil Boring Logs

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	Preferred Pond Pre-Level II Risk Rank Post-Level II Risk Rank							
Pond 1B	LOW	NO						
1.20-Acres. Located west Use as construct Level II f Undesirable burie	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	Preferred Pond Pre-Level II Risk Rank Post-Level II Ri							
Pond 2A – Option 1	LOW	NO						
14.23-Acres. Level II Undesirable burie	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	Preferred Pond Pre-Level II Risk Rank							
Pond 3B	NO	NO						
2.44-Acres. Loca Level II f Undesirable burie	ated east of NE 32nd Avenue, north and south o Current and historic pastureland and field screening did not indicate arsenic contamin ad debris was not encountered in the borings con	f SR 70, and west of the L-63 Canal. wetlands. <u>ation in the tested locations.</u> <i>mpleted during Level II field activities.</i>						
Preferred Pond	Pre-Level II Risk Rank	Post-Level II Risk Rank						
Pond 4B – Option 2	NO	NO						
4.59-, <u>Level II f</u> Undesirable burie	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						
Level II 1 Undesirable burie	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



CERTIFICATE OF AUTHORIZATION 6486 SR 710 OKEECHOBEE 419344-3-32-01



CERTIFICATE OF AUTHORIZATION 6486	SK /10	UNEECHUDEE	419344-3-32-01		
		bsawask	a	1/10/2017	11:31

J:\6511\2012 Files\6511-12-054 SR 7





SAMPLE LOCATION MAP

	REVIS			STATE OF FI	LORIDA		
DATE	DESCRIPTION	DATE	DESCRIPTION	TIERRA, INC.	DEPARTMENT OF TRANSPORTATION		
			7351 TEMPLE TERRACE HIGHWAY	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
	TIERRA PROJECT NO.: 651	TIERKA PROJECT NO.: 6511-12-054A	TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION 6486	SR 710	OKEECHOBEE	419344-3-32-01	



M J:\6511\2012 Files\6511-12-054 SR 710\Microstation\pdgeoEnvBLP02.dgr

Appendix B

Table 1 – Soil Analytical Summary Table 2 – GPS Coordinates

TABLE 1 – SOIL ANALYTICAL SUMMARY

TIERRA PROJECT NO: 6511-12-054A

	EPA METHOD 6010 (mg/kg)			
Pond Name	Sample ID	B ID Sample Depth Date Collected		Arsenic
	Reside	ntial Direct Exposu	re SCTL (mg/kg) $ ightarrow$	2.1
	Commercial/Indu	strial Direct Exposu	re SCTL (mg/kg) \rightarrow	12.0
		Leachabil	ity SCTL (mg/kg) \rightarrow	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 kilogramSCTL = Soil Cleanup Target Level per Ch. 62-777, F.A.C.U = Analyte not detected above noted concentrationI = Analyte detected between PQL and MDL; see lab reportBOLD concentration exceeds MDLHighlighted 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,

IA 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



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



SAMPLE ANALYTE COUNT

Project:SR710 Ponds- 6511-12054APace Project No.:35281680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35281680001	SB-1	EPA 6010		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



SAMPLE ANALYTE COUNT

Project:SR710 Ponds- 6511-12054APace 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



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-1	Lab ID:	35281680001	Collected	d: 12/06/16	11:56	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weight	" basis and are	adjusted for	percent mo	oisture, san	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Metho	od: EP/	A 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		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-2	Lab ID:	3528168000	2 Collected	d: 12/06/16	6 12:10	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted fo	r percent mo	oisture, sar	nple s	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA	6010 Prepar	ration Methe	od: EP	A 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: AST	M D2974-87						
Percent Moisture	2.3	%	0.10	0.10	1		12/14/16 11:00		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-3	Lab ID:	35281680003	Collected	d: 12/06/16	6 12:23	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weigh	t" basis and are	adjusted for	percent mo	oisture, san	nple si	ze and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepar	ation Metho	od: EP/	A 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)



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-4	Lab ID:	35281680004	Collected	d: 12/06/16	6 12:40	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weig	ht" basis and are	e adjusted for	percent mo	oisture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Methe	od: EP/	A 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		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-5	Lab ID:	35281680005	6 Collected	d: 12/06/16	6 13:25	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry wei	ght" basis and are	adjusted for	r percent mo	oisture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA	6010 Prepar	ation Methe	od: EP/	A 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: ASTN	M D2974-87						
Percent Moisture	6.6	%	0.10	0.10	1		12/14/16 11:01		



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 Ma	trix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for p	percent mo	isture, san	nple siz	ze and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical I	Method: EPA 60	010 Prepara	ation Metho	d: 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 I	Method: ASTM	D2974-87						
Percent Moisture	3.4	%	0.10	0.10	1		12/14/16 11:01		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-7	Lab ID:	35281680007	7 Collected	d: 12/06/16	6 13:56	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry we	ight" basis and are	e adjusted fo	r percent mo	oisture, sar	nple si	ize and any diluti	ions.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA	6010 Prepar	ration Meth	od: EP/	A 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: ASTI	M D2974-87						
Percent Moisture	18.1	%	0.10	0.10	1		12/14/16 11:01		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-8	Lab ID:	35281680008	Collected	I: 12/06/16	14:08	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weight	t" basis and are	adjusted for p	percent mo	isture, san	nple si	ze and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepar	ation Metho	od: EP/	A 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		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Date: 12/22/2016 04:12 PM

Sample: SB-9	Lab ID:	35281680009	Collected	I: 12/06/16	14:36	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for p	percent mo	isture, san	nple si	ze and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 60	010 Prepar	ation Metho	od: EPA	A 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		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-10	Lab ID:	35281680010	Collected	d: 12/06/16	6 14:47	Received: 12/	07/16 12:07 Ma	trix: Solid	
Results reported on a "dry weig	ht" basis and ar	e adjusted for	percent mo	oisture, san	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	6010 Prepa	ration Metho	od: EP/	A 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	1 D2974-87						
Percent Moisture	15.5	%	0.10	0.10	1		12/14/16 11:01		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-11	Lab ID:	35281680011	Collected	d: 12/06/16	6 14:58	Received: 12/	07/16 12:07 Ma	trix: Solid	
Results reported on a "dry weight"	" basis and are	e adjusted for	percent mo	oisture, san	nple si	ze and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Metho	od: EP/	A 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		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-12	Lab ID:	35281680012	2 Collected	d: 12/06/16	6 15:11	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weig	ght" basis and are	adjusted for	r percent mo	oisture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA	6010 Prepa	ration Methe	od: EP/	A 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: ASTN	M D2974-87						
Percent Moisture	27.1	%	0.10	0.10	1		12/14/16 11:01		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-13	Lab ID:	35281680013	Collected	d: 12/07/16	6 08:12	Received: 12/	07/16 12:07 Ma	trix: Solid	
Results reported on a "dry weig	ght" basis and are	adjusted for	percent mo	oisture, san	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	6010 Prepar	ation Metho	od: EP/	A 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	1 D2974-87						
Percent Moisture	5.7	%	0.10	0.10	1		12/14/16 11:02		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-14	Lab ID:	35281680014	Collecte	d: 12/07/16	6 08:36	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weigh	t" basis and are	e adjusted for	percent mo	oisture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Methe	od: EP/	A 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		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-15	Lab ID:	35281680015	Collected	d: 12/07/16	6 08:50	Received: 12/	07/16 12:07 Ma	atrix: 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 6	6010 Prepa	ration Methe	od: EP/	A 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	Analytical Method: ASTM D2974-87										
Percent Moisture	3.1	%	0.10	0.10	1		12/14/16 11:02					



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-16	Lab ID:	35281680016	Collected	d: 12/07/16	6 09:12	Received: 12/	07/16 12:07 Ma	atrix: 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 6	010 Prepa	ration Metho	od: EP/	A 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					


Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-17	Lab ID:	35281680017	Collected	d: 12/07/16	6 09:32	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weig	pht" basis and ar	e adjusted for	r percent mo	oisture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA	6010 Prepa	ration Methe	od: EP/	A 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: AST	M D2974-87						
Percent Moisture	7.9	%	0.10	0.10	1		12/14/16 11:02		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-18	Lab ID:	35281680018	Collected	d: 12/07/16	6 09:47	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weight	t" basis and are	adjusted for	percent mo	oisture, san	nple si	ize and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Metho	od: EP/	A 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		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-19	Lab ID:	35281680019	Collecte	d: 12/07/16	6 10:01	Received: 12/	07/16 12:07 Ma	trix: Solid	
Results reported on a "dry weight"	basis and are	e adjusted for	percent mo	oisture, sar	nple si	ze and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Methe	od: EP/	A 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		



Project: SR710 Ponds- 6511-12054A

Pace Project No.: 35281680

Sample: SB-20	Lab ID:	35281680020	Collected	d: 12/07/16	6 10:17	Received: 12/	07/16 12:07 Ma	atrix: Solid	
Results reported on a "dry weight	t" basis and are	adjusted for	percent mo	oisture, sar	nple si	ze and any diluti	ons.		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Meth	od: EP/	A 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		



QUALITY CONTROL DATA

Project:	SR710	Ponds- 651	1-12054A										
Pace Project No.:	352816	80											
QC Batch:	33838	88		Analys	is Method:	E	PA 6010						
QC Batch Method:	EPA 3	050		Analys	is Descript	ion: 6	010 MET Sc	olid					
Associated Lab San	nples:	352816800 352816800 352816800	01, 35281680002 08, 35281680009 15, 35281680016	2, 35281680 9, 35281680 6, 35281680	003, 3528 [.] 010, 3528 [.] 017, 3528 [.]	1680004, 3 1680011, 3 1680018, 3	35281680005 35281680012 35281680015	5, 3528168 2, 3528168 9	0006, 3528 0013, 3528	1680007, 1680014,			
METHOD BLANK:	181368	4		Ν	Aatrix: Soli	id							
Associated Lab San	nples:	352816800 352816800 352816800	01, 35281680002 08, 35281680009 15, 35281680016	2, 35281680 9, 35281680 6, 35281680 Blank	003, 3528 ⁻ 010, 3528 ⁻ 017, 3528 ⁻ c R	1680004, 3 1680011, 3 1680018, 3 eporting	35281680005 35281680012 35281680019	5, 3528168 2, 3528168 9	0006, 3528 0013, 3528	1680007, 1680014,			
Param	neter		Units	Resul	t	Limit	MDL	1	Analyzed	Qua	alifiers		
Arsenic			mg/kg	0.3	31 U	0.62	2	0.31 12/	17/16 01:24				
LABORATORY COM	NTROL S	SAMPLE:	1813685										
				Spike	LCS	5	LCS	% Red	;				
Paran	neter		Units	Conc.	Resu	llt	% Rec	Limits	. Qu	alifiers	_		
Arsenic			mg/kg	13.7		12.7	92	80	-120				
MATRIX SPIKE & M	IATRIX S		-ICATE: 18136	86		1813687							
				MS	MSD					_			
Paramete	er	Unit	35281680001 s Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic		mg/k	g 0.35 U	16.9	17.8	13.3	13.8	78	77	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project:	SR710 Ponds- 6511	-12054A										
Pace Project No.:	35281680											
QC Batch:	338516		Analys	is Method:	E	PA 6010						
QC Batch Method:	EPA 3050		Analys	is Descript	tion: 6	010 MET So	blid					
Associated Lab Sar	nples: 3528168002	20										
LABORATORY CO	NTROL SAMPLE:	1814148										
			Spike	LCS	5	LCS	% Rec	;				
Parar	neter	Units	Conc.	Resu	ılt	% Rec	Limits	Qı	ualifiers			
Arsenic		mg/kg	13.9		12.7	91	80	-120		-		
MATRIX SPIKE & N	IATRIX SPIKE DUPL	ICATE: 18141	49		1814150							
		25284846006	MS	MSD	MC	MCD	MC	MCD			May	
Paramete	er Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	% Rec	RPD	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 & N	IATRIX SPIKE DUPL	ICATE: 18142	56		1814257							
			MS	MSD								
		35281816007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Arsenic	mg/kg	g 5.0	22.9	27.5	26.9	31.6	96	97	75-125	16	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: SR710 Ponds- 6511-12054A

Pace Project No.: 3528168	30						
QC Batch: 338449)	Analysis Meth	od: A	STM D2974-87			
QC Batch Method: ASTM	D2974-87	Analysis Desc	ription: D	Dry Weight/Perce	nt Moisture		
Associated Lab Samples:	35281680001, 35281680002 35281680008, 35281680009 35281680015, 35281680016	2, 35281680003, 35 9, 35281680010, 35 6, 35281680017, 35	281680004, 3 281680011, 3 281680018, 3	35281680005, 35 35281680012, 35 35281680019, 35	281680006, 281680013, 281680020	35281680007, 35281680014,	
SAMPLE DUPLICATE: 181	3914						
		35279909001	Dup		Max		
Parameter	Units	Result	Result	RPD	RPD	Qualifiers	
Percent Moisture	%	95.7	94.7	7 1		10	
SAMPLE DUPLICATE: 181	3915						
Deremeter	Linita	35281680003	Dup		Max	Qualifiara	
Parameter	Units	Result	Result	RPD	KPD		
Percent Moisture	%	11.4	9.8	3 15		10 J(D6)	
SAMPLE DUPLICATE: 181	3916						
		35281680012	Dup		Max		
Parameter	Units	Result	Result	RPD	RPD	Qualifiers	
Percent Moisture	%	27.1	25.2	2 7		10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



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.



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		
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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical

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	Client: 37-11ETPA		Label:
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Project Manager R	eview:		Date:
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Appendix D

Soil Boring Logs

Borina	Well Num	iber:				Permit	Number				EDEDI		atificatia	Page 1 of
SB-	1						NULLIDOI.	,	NA		FUEP	·acility Idei		n Number:
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SR 7	10 from	US 441	to the L	-63 Can	al		End Date	· 12 · 12	6/14	En	d Time: //	50 56		AM PM
Enviro	nmental C	ontractor				Geolog	ist's Name:		· - ·		Friviton	mental Te	chnician	's Name:
TIERF	RA, INC.					Clare I	Kramer		-		Samm	v Awad	on noice	a Name.
Drilling	Сотралу	<i>r</i> :			Paveme	l nt Thickr	iess (inches):	Borehole Di	ameter (inches):		Borehole	Depth (feet):
TIERF	RA, INC.					1	VA	-		3.25			1.	
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(descri	be if other	or multip	ole items a	re checke	d):		ш <u>ј</u>	spread		Sackrill J	Stockpi	le	Omer	÷
Boreho	le Comple	etion (che	eck one):		Well	Γ	Grout	Гв	entonite	Backfill	F.,	Other (de	scribe)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	Samp ude grain siz staining, a	le Description te based on US and other rema	CS, odors rks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screer interval)
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Enviro	nmental C	ontractor	:			Geolog	ist's Name:				Enviror	nmental Te	chnician	n's Name:
TIERF	RA, INC.					Clare I	Kramer				Samm	y Awad		
Drilling	Company	<i>!</i> :			Paveme	nt Thickr	ness (inches)):	Borehole Di	ameter (inches)	1:	Borehole	e Depth ((feet):
TIERF	RA, INC.					1	NA		1	3.25				
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Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(incl	Samı ude grain siz staining,	ble Descriptio ze based on U and other rem	n SCS, odor arks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
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Enviror	nmental C	ontractor	:			Geologis	st's Name:			Environme	ental Tec	hnician'	s Name:
TIERR	A, INC.				-	Clare K	ramer			Sammy A	wad		
Drilling	Company	r:			Paveme	nt Thickne	ess (inches)	: Borehole I	Diameter (inches):	В	orehole	Depth (1	eet):
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Drilling	Method(s):		Apparer moisture	at Borehole e content):	e DTW (ii	n feet from s	soil Measured We after water rec	I DTW (in feet harges in well):	OVA (list	model a	nd chec	k type):
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descril	be if other	or multip	ole items a	ire checke	ed);								
loreho	le Comple	etion (che	eck one):		∏ Well	Γ.	Grout	Eentonite	Backfill	L o	ther (de	scribe)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	San (include grain s staining	ple Description ize based on US , and other rema	CS, odors, rks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample numbe and depth or temporary scre- interval)
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	e Type Cr	des: PH	l ≔ Post H	ole; HA	= Hand A	uger; SS	= Split Spo	on; ST = Shelby ⁻	ube; DP = Direc	t Push; SC	= Sonic	Core: I	C = Drill Cuttings

hon	<u>) 514</u>	33				.							Page 1 of
Boring/	Well Num	ber:				Permit N	lumber:			FDEP Facil	ity Ident	lification	Number:
SB-	10							NA				NA	
Site Na	me: 6511	-12-054	A			Borehole	e Start Date	12/4/14	Borehole Start	Time: / 4/40	•		ам 🔽 РМ
SR 7	10 from	JS 441	to the L-	-63 Cana	al		End Date:	12/14/14	End	Time: 144	7		ам 🏹 РМ
Enviror	nmental C	ontractor	:			Geologis	st's Name:			Environmer	ntal Tec	hnician's	s Name:
TIERR	A, INC.					Clare K	ramer	·		Sammy Av	vad		
Drilling	Company	:			Paveme	nt Thickne	ess (inches)	: Borehole Dia	meter (inches):	Bo	rehole l	Depth (fe	eet):
TIERR	A, INC.					N	A		3.25			Ø	
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Boreho	le Comple	ation (che	eck one):		Well	Г	Grout	E Bentonite	Backfill	F_ ot	her (des	scribe)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sampl (include grain size staining, a	e Description e based on USC nd other remar	CS, odors, ks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
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Moistu	re Conten	t Codes:	D = Dry;	M = Moi	ist; W = \	Net; S =	Saturated						

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oring/	Well Num	iber:				Permit N	umber:			FDEP F	acility Ider	tificatio	n Number:
SB-	<u> </u>							NA				NA	
ite Na	ame: 6511	-12-054	A .			Borehole	Start Date: 1	216116	Borehole Star	Time: 🖊	452	Γ	ам Герм
SR 7	10 from	US 441	to the L	-63 Can	al		End Date:	1/16/110	End	Time:	458	Г	AM PM
nviroi	nmental C	ontractor	:			Geologis	ťs Name:	•		Environ	mental Teo	chnician	's Name:
	RA, INC.				1_	Clare Kr	amer			Sammy	Awad		
villing runne	Сотралу	<i>y</i> :			Paveme	nt Thickne	ss (inches):	Borehole Dia	meter (inches):		Borehole	Depth (feet):
)rilling	Method/s	.) <i>.</i>		Apparor	at Boroboly		foot from coil	Moonurod Moll F	3.25			<u>(</u>	
ming	Methodia	·)·		moisture	e content):			after water recha	rges in well):		st mouer a	na cnec	к (уре):
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ispos descri	ition of Dr	ill Cutting r or multip	ıs [check r ole items a	nethod(s) re checke]: ed):	- Drum	∏ Sp	read B	ackfill	Stockpil	еГ	Other	
oreho	ole Comple	etion (che	eck one):		Well	Γ	Frout [Bentonite	Backfill	Γ	Other (de	scribe)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sampl (include grain size staining, a	e Description e based on US(nd other remar	CS, odors ks)	USCS Symbol	Moisture Conten	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
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	.L a Type Co	des: PH	I = Post H	ole: HA:	⊥ = Hand Au	1	Snlit Speen:	ST = Shalby Tub	e: DP = Direct	Pueb er	C = Sonic		C = Drill Cuttings

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lond	Site	, <u>3B</u>													Page	e 1 of
Boring	Well Num	nber:				Permit Nu	imber:				FDEP F	acilit	y Ident	tificatio	n Numt	per:
SB-	2								NA					NA		
Site Na	ime: 6511	1-12-054	A			Borehole	Start Date	121	4110	Borehole Star	t Time: 🖊	504	1		AM	РМ
SR 7	10 from	US 441	to the L-	-63 Cana	al		End Date:	121	w like	End	Time: 👖	511			AM	PM
Enviro	nmental C	ontracto	г:			Geologist	's Name:				Environ	nment	al Tec	hnician	i's Nam	e:
TIERF	RA, INC.				r	Clare Kra	amer		•		Samm	y Awa	ad			
Drilling	Company	y;			Paveme	nt Thicknes	ss (inches)):	Borehole Dia	meter (inches):		Bore	ehole i	Depth ((feet):	
TIERF	A, INC.			1.		NA	1			3.25				6		
Drilling	Method(s	5):		Apparen moisture	t Borehole content):	eDTW (in	feet from a	soil Me aft	easured Well [er water recha	DTW (in feet arges in well):	OVA (I	ist mo	odel ar	nd chec	ck type)	:
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Boreho	le Comple	etion (ch	eck one):		Well	Гс	irout	Гв	entonite	7 Backfill	Γ.	Othe	er (des	scribe)		
		S		-								1			1.	
San	Sam	amp ()	[per:	Unfi	Fitt	z	De						USO	loist	Gr	b Soll and oundwater
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SB-	13									NA					NA	
ite Na	ame: 6	511·	-12-054	1A			Borehol	e Start Date	12	17 Ke	Borehole	e Start	Time:	510		АМ ГРМ
SR 7	'10 fro	om l	JS 44 ⁻	I to the L	-63 Can	ai		End Date	12	7 16		End	Time: 08	317	1	АМ ГРМ
nviro	nment	al Co	ontracto	r:			Geologi	st's Name:					Environr	nental Te	chnician	's Name:
TIERF	RA, IN	C.					Clare K	Gramer					Sammy	Awad		
rilling	Com	pany	:			Pavemei	nt Thickn	ess (inches):	Borehole Dia	meter (inc	hes):	1	Borehole	Depth (feet):
IERF	RA, IN	С.			,		N	A			3.25				6	
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