



St. Johns River

Water Management District

Ann B. Shortelle, Ph.D., Executive Director

525 Community College Parkway S.E. • Palm Bay, FL 32909 • 321-984-4940
On the internet at www.sjrwmd.com.

DATE: August 28, 2019
TO: Prospective Respondents
FROM: Amy Lucey, Contracts Administrator
SUBJECT: Addendum #2 to Invitation for Bids # 34798, S-96C Rehabilitation

Modifications:

1. Page 55, ATTACHMENT A – STATEMENT OF WORK, V. TIMEFRAMES & DELIVERABLES, item 2 has been added as follows:

The rehabilitated gate and new cable drum hoist system shall be installed and fully operational, and the cofferdams shall be removed on or before June 1, 2020.

NOTE: The Bid Opening remains 2:00 p.m., Friday, September 6, 2019.

Attachments:

Page 55, Revised Addendum 2
Geotech Report 8-23-19
Lab Results for Paint

Please acknowledge receipt of this Addendum on the BID FORM provided in the bid package.

If you have any questions, please call me at (321) 409-2156 or e-mail alucey@sjrwmd.com

Contractor shall verify all field dimensions prior to fabrication of the hoist. Remove and load onto a District trailer the existing hydraulic gate operator including all associated appurtenances. Replace with a new cable drum hoist, cables, hardware, controls, and all electrical and mechanical systems as specified. Perform dry and wet tests of hoists after installation. Provide District with operations and maintenance manuals and as-built of drum and cable system including a materials list.

47. Site Cleanup and Demobilization

Demobilize, clean site, and remove all erosion control measures. Contractor shall submit as-built drawings to the District. Contractor shall assume all responsibility for repairs to the utilities and other site improvements damaged during construction. Additionally, the Work will be considered complete only after all rubbish and unused material due to or connected with the Work has been removed and the premises left in a condition satisfactory to the District. All property disturbed or damaged during prosecution of the Work shall be restored to its former condition or better at no additional expense to the District. Final payment will be withheld until such cleanup is completed and approved by the District.

48. Daily Overflow Impact Fee

This item represents the maximum daily fee that Contractor will be allowed to charge the District (on a daily basis), in the event that water levels exceed elevation 25.0 ft NGVD and overtops the coffer dam. All costs associated with repair to any existing work affected by the cofferdam overflow, as well as work-related delays, must be included in this daily amount. The daily amount due Contractor will be proportional to the Work involved to repair any work in progress, and any delays encountered, as determined by the District. All amounts under the "Daily Impact Fee" will be authorized in writing by the District's Project Manager through issuance of a District Supplemental Instruction (DSI) form. Contractor is not entitled to receive any unspent or remaining funds in the Daily Impact Fee item. The number of days included in the cost schedule is an estimate and will be adjusted according to the actual number of days of overflow incurred.

49. Supplemental Work Allowance

If necessary, this item will be used for increases in the Contract Price within the amount set forth on the Cost Schedule or negotiated price if the item is not included in the cost schedule, due to District approved changes in the unit price quantities, unforeseen site conditions, or minor changes to the work.

V. TIMEFRAMES & DELIVERABLES

1. Contractor shall begin work within 15 days of the Effective Date. The Effective Date is the date upon which the last party to this Agreement has dated and executed the same. The start date may be deferred up to 30 days due to unforeseen permit delays.
2. **The rehabilitated gate and new cable drum hoist system shall be installed and fully operational, and the cofferdams shall be removed on or before June 1, 2020.**
3. All work shall be complete and the site demobilized in accordance with the plans and scope of work before July 29, 2020.

VI. BUDGET

Contractor shall submit monthly itemized invoices based on a percentage of completion per detailed cost breakdown by one of the following two methods: (1) by mail to the St. Johns River Water Management District, Director, Division of Financial Management, 4049 Reid Street, Palatka, Florida 32177, or (2) by e-mail to acctpay@sjrwm.com. Each invoice shall be submitted in detail sufficient for proper pre-audit and

**Subsurface Soil Exploration
Structure 96C Rehabilitation
Proposed Bypass Spillway
Indian River County, Florida**



Ardaman & Associates, Inc.

CORPORATE HEADQUARTERS

8008 S. Orange Avenue, Orlando, FL 32809 - Phone: (407) 855-3860 Fax: (407) 859-8121

Branch Office Locations

Florida: Bartow, Cocoa, Fort Myers, Miami, Orlando, Port St. Lucie, Sarasota, Tallahassee, Tampa, West Palm Beach
Louisiana: Baton Rouge, Monroe, New Orleans, Shreveport

MEMBERS:

ASTM International
American Concrete Institute
Geoprofessional Business Association
Society of American Military Engineers
American Council of Engineering Companies



St. Johns River Water Management District
P.O. Box 1429
Palatka, Florida 32178-1429

Attention: Mr. Robert Naleway, P.E.

Subject: Subsurface Soil Exploration
Structure 96C Rehabilitation
Proposed Bypass Spillway
Indian River County, Florida

Dear Mr. Naleway:

As requested and authorized, we have completed a shallow subsurface soil exploration for the subject project. The purpose was to explore soil stratigraphy at two designated locations by the District on the existing levee. This data report documents our findings.

SITE LOCATION AND SITE DESCRIPTION

The site for the proposed bypass spillway is located approximately 530 feet south of S-96C in the existing levee that separates the Stick Marsh impoundment from the channelized St. Johns River in Indian River County, Florida. The general site location is shown superimposed on the Fellsmere SW Florida U.S.G.S. quadrangle map presented on Figure 1.

FIELD EXPLORATION PROGRAM

Auger Borings

The field exploration program included performing 2 hand auger borings. The hand auger borings were conducted using a 3-inch diameter manual bucket auger to a depth of 5 feet below the existing ground surface. A summary of the hand auger boring procedure is included in Appendix I. Representative soil samples were recovered from the auger borings and transported to our laboratory for further analysis.

The groundwater level at each of the boring locations was measured during drilling. The borings were backfilled with soil cuttings.

Test Locations

The approximate locations of the borings are schematically illustrated on an aerial photograph provided by SJRWMD shown on Figure 2. These locations were staked in the field by others.

LABORATORY PROGRAM

Representative soil samples obtained during our field sampling operation were packaged and transferred to our laboratory for further visual examination and classification. The soil samples were visually classified in general accordance with the Unified Soil Classification System (ASTM D-2488). The resulting soil descriptions are shown on the soil boring profiles presented on Figure 3.

In addition, we conducted 1 organic content test (ASTM D2974-87), 3 natural moisture content tests (ASTM D2216), 2 grain size analyses (ASTM D6913) and 3 percent fines analyses (ASTM D1140) on selected soil samples obtained from the borings. The results of these tests are presented adjacent to the sample depth on the boring profiles on Figure 3. A bulk sample for Standard Proctor testing was also obtained adjacent to Boring AB-1 from a depth range of 2 to 3 feet below ground surface. Results of the Standard Proctor test and the grain size analyses are presented in Appendix II.

GENERAL SUBSURFACE CONDITIONS

General Soil Profile

The results of the field exploration and laboratory programs are graphically summarized on the soil boring profiles presented on Figure 3. The stratification of the boring profiles represents our interpretation of the field boring logs and the results of laboratory examinations of the recovered samples. The stratification lines represent the approximate boundary between soil types. The actual transitions may be more gradual than implied.

The results of the borings indicate the following general soil profile:

Depth Below Ground Surface (feet)		Description
From	To	
0	0.2	Fine sand with silt (SP-SM)
0.2	1.2	Limerock (Road Stabilization Material)
1.2	5	Clayey fine sand (SC) and sandy clay (CH). We note that trace organics were encountered mixed with the clay between a depth of 2 to 5 feet.

The above soil profile is outlined in general terms only. Please refer to Figure 3 for soil profile details.

Groundwater Level

An attempt was made to measure the groundwater level in the boreholes upon completion of drilling. The absence of groundwater data at the boring locations indicates that groundwater was not encountered within the vertical reach of the borings on the date drilled. However, this does not necessarily mean that groundwater would not be encountered within the vertical reach of the borings at some other time. Fluctuations in groundwater levels should be anticipated primarily due to water level fluctuations in water bodies adjacent to the levee. We note that the water level on the east side of the levee was measured relative to the existing ground surface at the boring locations and was on the order of 5½ feet below the adjacent ground surface.

CLOSURE

The information submitted herein is based on the data obtained from the soil borings presented on Figure 3. This report does not reflect any variations which may occur adjacent to or between the borings. The nature and extent of the variations between the borings may not become evident until during construction.

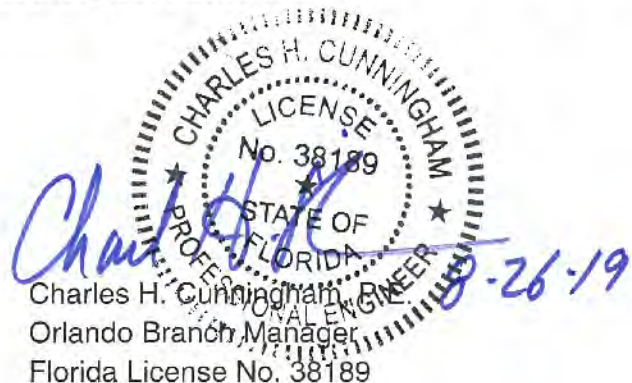
This study is based on a relatively shallow exploration and is not intended to be an evaluation for sinkhole potential. This study does not include an evaluation of the environmental (ecological or hazardous/toxic material related) condition of the site and subsurface.

This report has been prepared for the exclusive use of St. Johns River Water Management District in accordance with generally accepted geotechnical engineering practices for the purpose of the proposed S-96C Rehabilitation Bypass Spillway project. No other warranty, expressed or implied, is made.

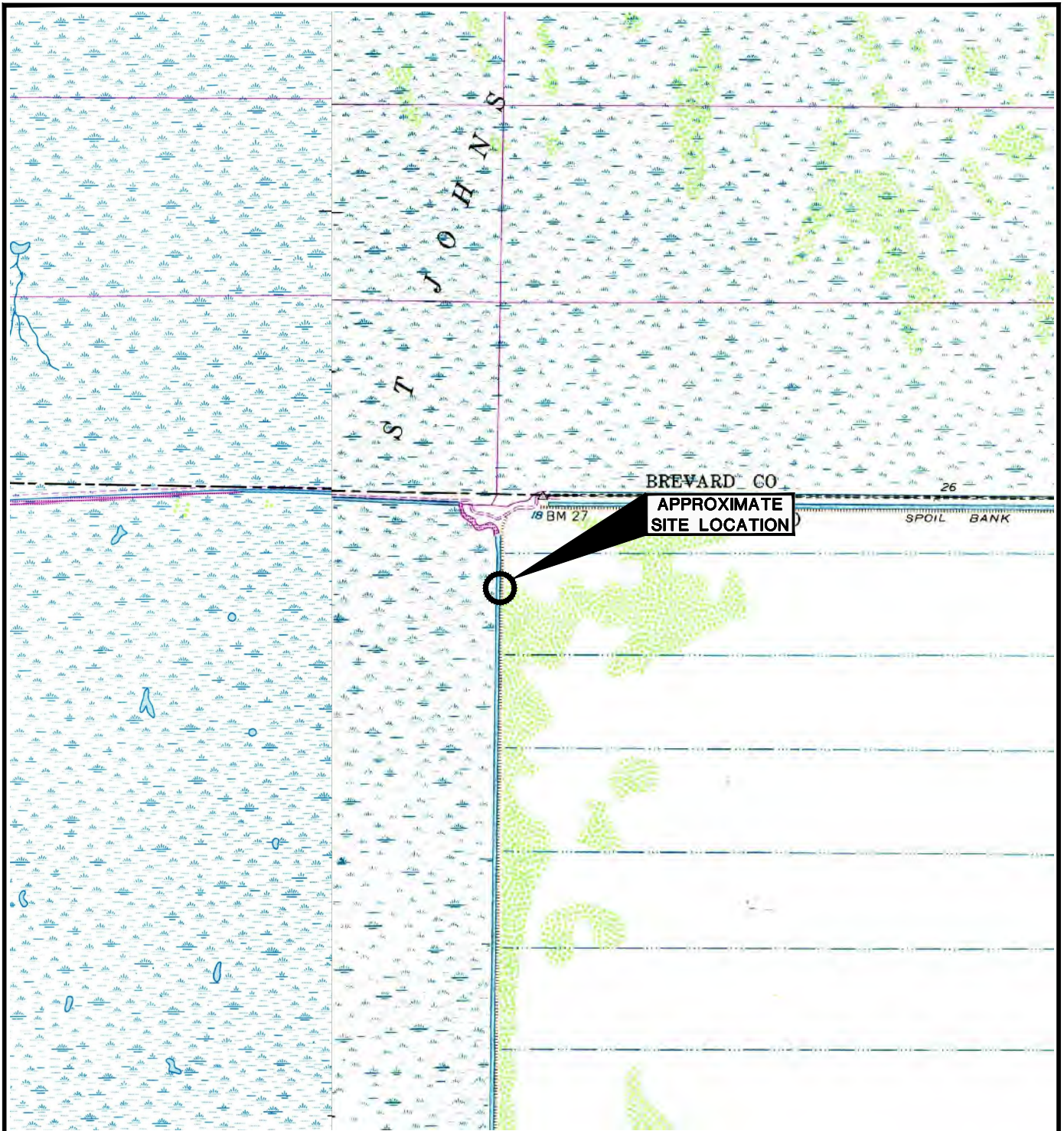
We are pleased to be of assistance to you on this phase of the project. When we may be of further service to you or should you have any questions, please contact us.

Very truly yours,
ARDAMAN & ASSOCIATES, INC.
Certificate of Authorization No. 5950

607 *CHC*
Eric C. Balog, E.I.
Assistant Project Engineer

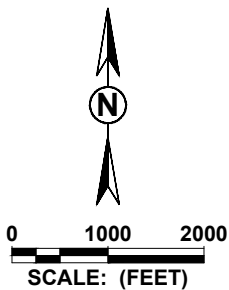
Charles H. Cunningham

Charles H. Cunningham, P.E.
Orlando Branch Manager
Florida License No. 38189

T:\Orlando\19\19-6413\19641301.dwg 8/23/2019 3:09:17 PM, Chris.Drew



TOWNSHIP 31 SOUTH
RANGE 36 EAST

OBTAINED FROM U.S.G.S. QUAD MAP: FELLSMERE SW, FLORIDA 1970



SITE LOCATION MAP

Ardaman & Associates, Inc.
Geotechnical, Environmental and
Materials Consultants

**SUBSURFACE SOIL EXPLORATION
STRUCTURE 96C REHABILITATION
PROPOSED BYPASS SPILLWAY
INDIAN RIVER COUNTY, FLORIDA**

DRAWN BY: CD	CHECKED BY:	DATE: 08/21/19
FILE NO. 19-6413	APPROVED BY:	FIGURE: 1

T:\Orlando\19\19-6413\19641302.dwg 8/23/2019 3:09:23 PM, Chris.Drew



Center Elev 27.3 ft NGVD
 27 ft across from TOS to TOS
 East: 12 ft from TOS to EOW
 West: 4 ft from TOS to EOW

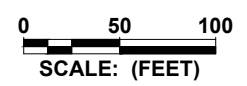
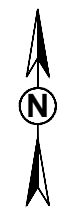
AB-1

Center Elev 27.3 ft NGVD
 29 ft across from TOS to TOS
 East: 15 ft from TOS to EOW
 West: 4 ft from TOS to EOW

AB-2

Center Elev 27.6 ft NGVD
 30 ft across from TOS to TOS
 East: 12 ft from TOS to EOW
 West: 4 ft from TOS to EOW

BM Elev 31.49 ft NGVD



LEGEND

 **AB** HAND AUGER BORING LOCATION

NOTE: THE AERIAL PHOTOGRAPH FOR THE BORING LOCATION PLAN WAS PROVIDED BY MR. BILL COTE, P.E. OF SJRWMD ON AUGUST 1, 2019.

BORING LOCATION PLAN







**SUBSURFACE SOIL EXPLORATION
 STRUCTURE 96C REHABILITATION
 PROPOSED BYPASS SPILLWAY
 INDIAN RIVER COUNTY, FLORIDA**

DRAWN BY: CD	CHECKED BY:	DATE: 08/21/19
FILE NO. 19-6413	APPROVED BY:	FIGURE: 2

LEGEND

SOIL DESCRIPTIONS

-  ① FINE SAND WITH SILT (SP-SM)
-  ② CLAYEY FINE SAND (SC)
-  ③ SANDY CLAY (CH)
-  ④ LIMEROCK (ROAD STABILIZATION MATERIAL)

COLORS

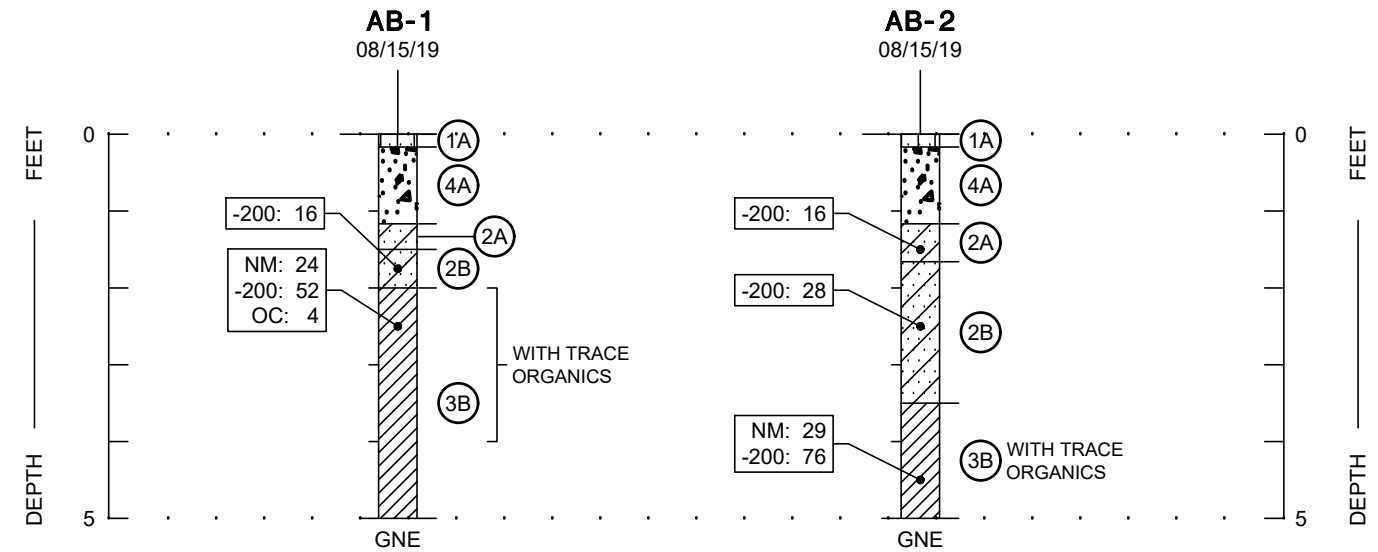
- Ⓐ LIGHT BROWN TO BROWN
- Ⓑ LIGHT GRAY TO GRAY

- AB** HAND AUGER BORING
- NM** NATURAL MOISTURE CONTENT IN PERCENT (ASTM D-2216)
- 200** PERCENT PASSING NO. 200 SIEVE SIZE (PERCENT FINES)(ASTM D-1140)
- OC** ORGANIC CONTENT IN PERCENT (ASTM D-2974)
- GNE** GROUNDWATER NOT ENCOUNTERED ON DATE DRILLED
- SP,SP-SM** UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487)
- SM,SC,CH** UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487)

NOTE: UPON COMPLETION OF EACH HAND AUGER BORING, THE BOREHOLE WAS BACKFILLED WITH SOIL CUTTINGS.

WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHES, LOCAL VARIATIONS CHARACTERISTIC OF THE SUBSURFACE MATERIALS OF THE REGION ARE ANTICIPATED AND MAY BE ENCOUNTERED. THE BORING LOGS AND RELATED INFORMATION ARE BASED ON THE DRILLER'S LOGS AND VISUAL EXAMINATION OF SELECTED SAMPLES IN THE LABORATORY. THE DELINEATION BETWEEN SOIL TYPES SHOWN ON THE LOGS IS APPROXIMATE AND THE DESCRIPTION REPRESENTS OUR INTERPRETATION OF SUBSURFACE CONDITIONS AT THE DESIGNATED BORING LOCATIONS ON THE PARTICULAR DATE DRILLED.

GROUNDWATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN. FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR. ABSENCE OF WATER SURFACE DATA IN THE BORING IMPLIES THAT NO GROUNDWATER DATA IS AVAILABLE, BUT DOES NOT NECESSARILY MEAN THAT GROUNDWATER WILL NOT BE ENCOUNTERED AT THIS LOCATION OR WITHIN THE VERTICAL REACHES OF THIS BORING IN THE FUTURE.



SOIL BORING PROFILES

 **Ardaman & Associates, Inc.**
Geotechnical, Environmental and
Materials Consultants

**SUBSURFACE SOIL EXPLORATION
STRUCTURE 96C REHABILITATION
PROPOSED BYPASS SPILLWAY
INDIAN RIVER COUNTY, FLORIDA**

DRAWN BY: CD	CHECKED BY:	DATE: 08/21/19	FIGURE: 3
FILE NO. 19-6413	APPROVED BY:		

APPENDIX I

Hand Auger Boring Procedure

HAND AUGER BORINGS

Auger borings are used when continuous sampling of soil strata close to ground surface is desired. A 3-inch diameter, hand-held bucket auger with a cutting head at its end is screwed into the ground in 1-foot sections. The sample is recovered by withdrawing the auger out of the ground without rotating it. The soil sample so obtained, is classified and representative samples put in bags or jars and brought back to the laboratory for classification testing.

Representative split-spoon samples from the soils are brought to our laboratory in air-tight jars for further evaluation and testing, if necessary. Samples not used in testing are stored for 30 days prior to being discarded.

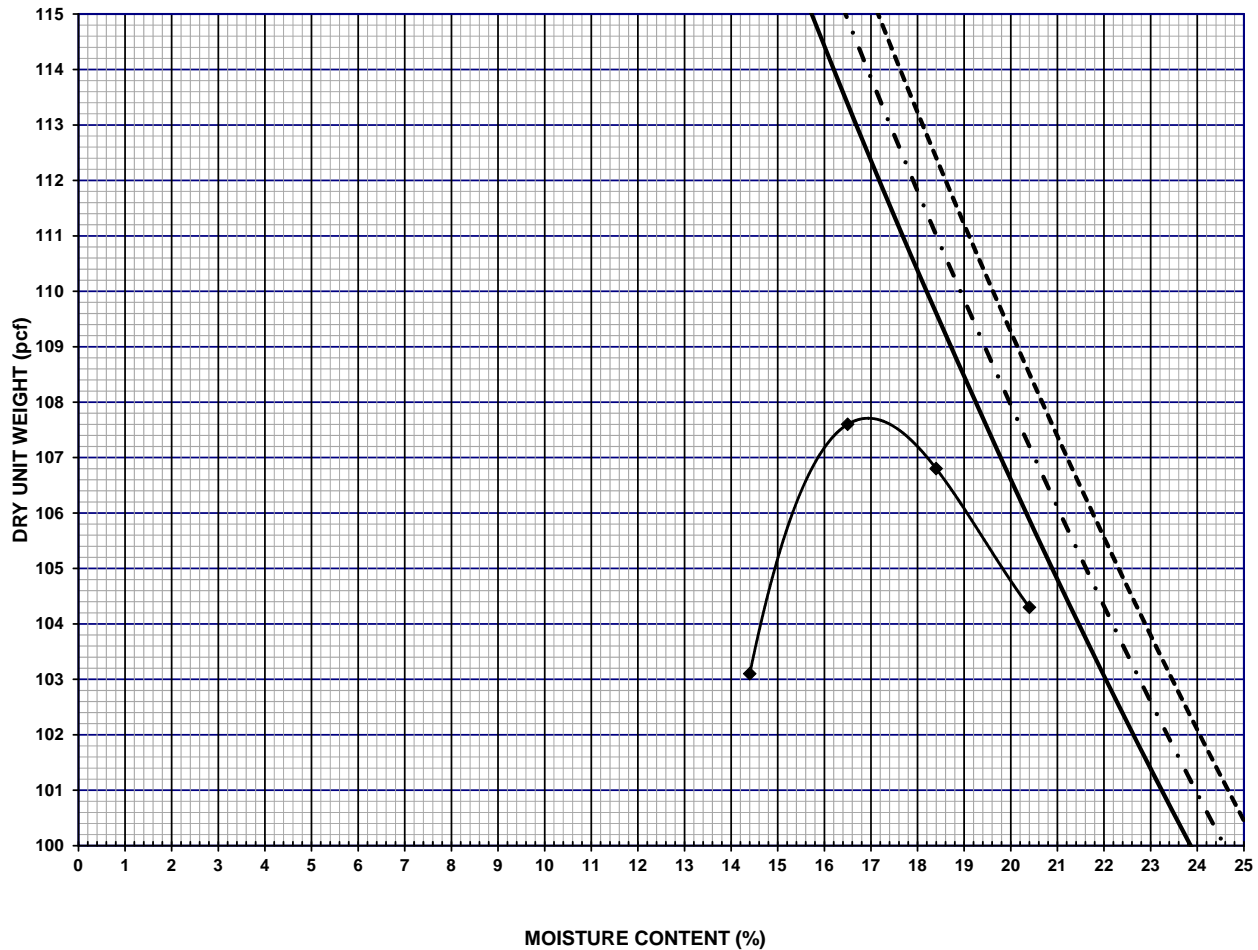
APPENDIX II

Standard Proctor and Grain Size Analysis Test Results

REPORT OF MOISTURE-DENSITY RELATIONSHIP

Project Name: Structure 96 C Bypass
 Project Location: Orlando, Florida
 File Number: 19-60-6413
 Client Name: SJRWMD

Date Sampled: 8/16/19
 Sampled By: EB
 Date Tested: 8/22/19
 Tested By: DS



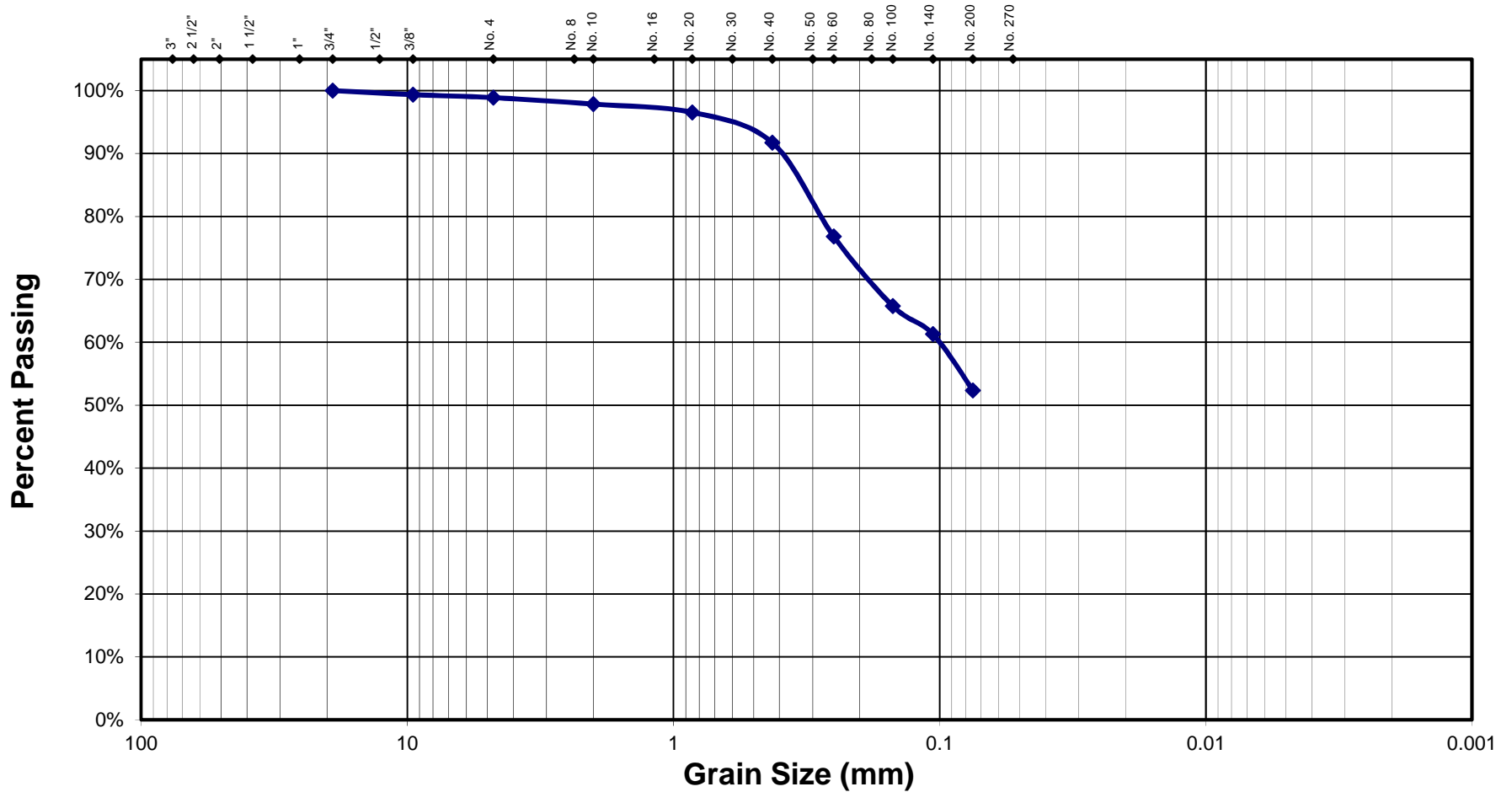
TEST RESULTS		
Maximum Dry Density (pcf)	Optimum Moisture Content (%)	Fines Passing #200 Sieve (%)
108.1	17.1	N/A

Curves of 100% Saturation for Specific Gravity Equal to:	
2.60	—————
2.65	- · - · - · - · -
2.70	- - - - -

SAMPLE NUMBER: MP-1
 TEST METHOD: ASTM D-698
 SAMPLE DESCRIPTION: Green, gray and brown clay
 SAMPLE LOCATION: AB-1, 2 feet to 3 feet

Our letters and reports are for the exclusive use of the client to whom they are addressed and shall not be reproduced except in full without the approval of the testing laboratory. The use of our name must receive our written approval. Our letters and reports apply only to the sample tested and/or inspected, and are not indicative of the quantities of apparently identical or similar products.

GRAIN SIZE DISTRIBUTION CURVE



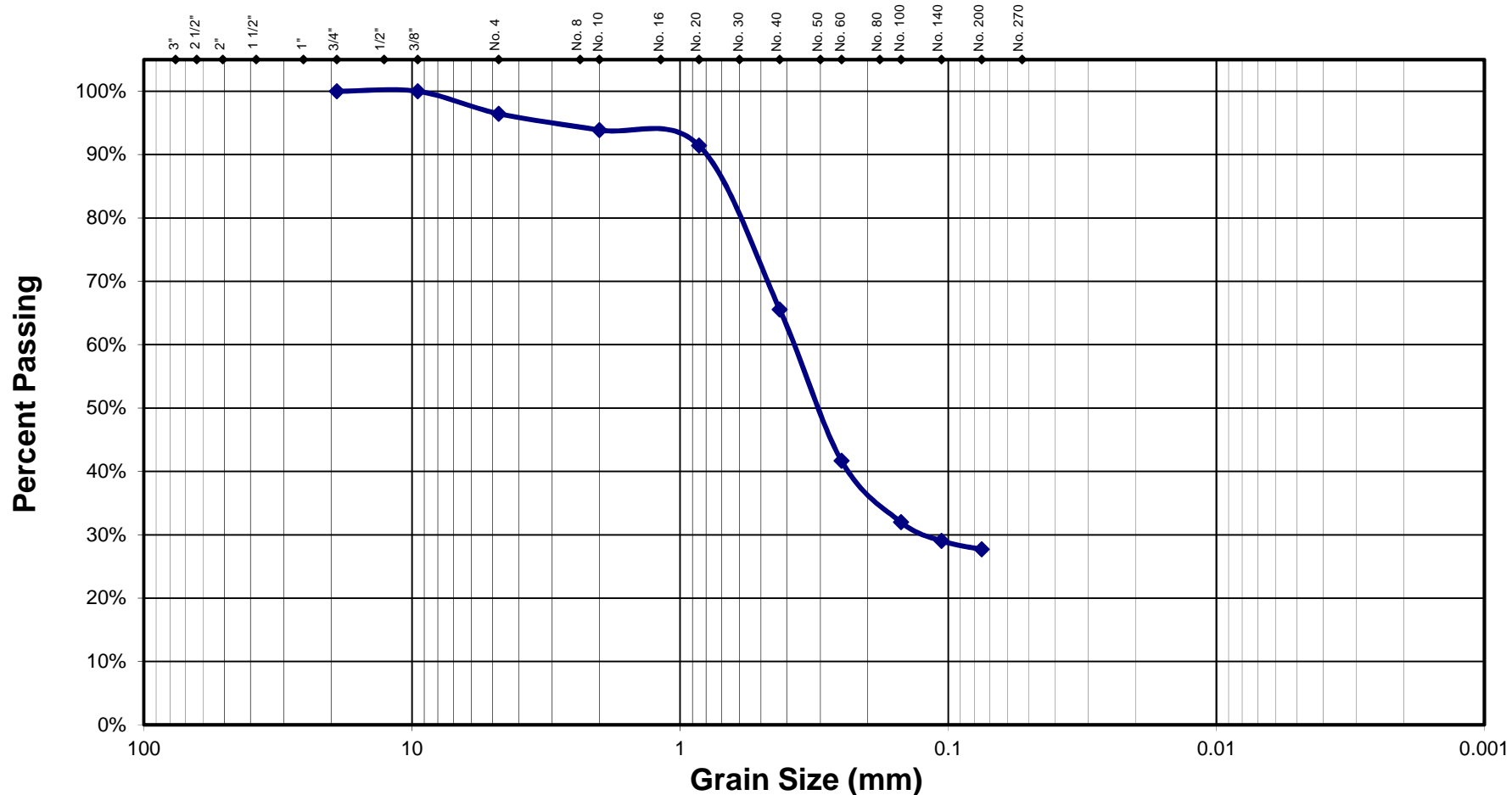
GRAVEL	SAND		SILT	CLAY
	Coarse to Medium	Fine		

Project Name: S-96C Bypass **A&A File Number:** 19-60-6413
Project Location: Indian River County
Client Name: SJRWMD

Sample No.: 2 **Sample Location:** AB-1 (2-3')
Sample Description: CH - Gray Clay
Percent Passing No. 200 Sieve = 52.4% **LL:** Not Tested **PL:** Not Tested **PI:** Not Tested



GRAIN SIZE DISTRIBUTION CURVE



GRAVEL	SAND		SILT	CLAY
	Coarse to Medium	Fine		

Project Name: S-96C Bypass **A&A File Number:** 19-60-6413
Project Location: Indian River County
Client Name: SJRWMD

Sample No.: W-8 **Sample Location:** AB-2 (2.5')
Sample Description: SC - Gray Clayey Fine Sand
Percent Passing No. 200 Sieve = 27.7% **LL:** Not Tested **PL:** Not Tested **PI:** Not Tested



ARDAMAN & ASSOCIATES, INC.
 Geotechnical, Environmental and
 Materials Consultants

August 22, 2019

Carey Maxwell
SJRWMD
PO Box 1429
Palatka, FL 32178

RE: Project: Paint Chips
Pace Project No.: 35487071

Dear Carey Maxwell:

Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 2019. 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,



Cameron Meynardie
cameron.meynardie@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Carey Maxwell, SJRWMD



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Paint Chips

Pace Project No.: 35487071

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Paint Chips
Pace Project No.: 35487071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35487071001	Palm B596C	Solid	08/05/19 10:30	08/05/19 12:54

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Paint Chips
Pace Project No.: 35487071

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35487071001	Palm B596C	EPA 6010	ATC	1
		EPA 6010	KPP	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Paint Chips

Pace Project No.: 35487071

Sample: Palm B596C **Lab ID: 35487071001** Collected: 08/05/19 10:30 Received: 08/05/19 12:54 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	28.2	mg/kg	5.0	2.5	1	08/08/19 01:40	08/12/19 16:27	7439-92-1	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 08/21/19 00:00								
Lead	0.046 U	mg/L	0.10	0.046	1	08/21/19 12:21	08/22/19 12:31	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Paint Chips
Pace Project No.: 35487071

QC Batch: 560460 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35487071001

METHOD BLANK: 3042056 Matrix: Solid
Associated Lab Samples: 35487071001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	0.29 U	0.59	0.29	08/09/19 18:00	

LABORATORY CONTROL SAMPLE: 3042057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	14.6	15.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3042058 3042059

Parameter	Units	35487213001		3042058		3042059		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Lead	mg/kg	4.9	13.6	12.6	21.7	26.1	123	167	75-125	18	20 J(M1)

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Paint Chips
Pace Project No.: 35487071

QC Batch: 564478 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 35487071001

METHOD BLANK: 3063024 Matrix: Water
Associated Lab Samples: 35487071001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/L	0.0046 U	0.010	0.0046	08/22/19 12:17	

LABORATORY CONTROL SAMPLE: 3065359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.25	0.25	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3065360 3065361

Parameter	Units	35487071001		3065360		3065361		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Lead	mg/L	0.046 U	2.5	2.5	2.3	2.4	92	94	75-125	2	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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Paint Chips
Pace Project No.: 35487071

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.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
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.

SAMPLE QUALIFIERS

Sample: 35487071001

[1] Insufficient sample received from client to perform the analysis per EPA method requirements.

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Paint Chips
Pace Project No.: 35487071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35487071001	Palm B596C	EPA 3050	560460	EPA 6010	560700
35487071001	Palm B596C	EPA 3010	564478	EPA 6010	564678

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WO#: 35487071



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: St Johns River Water Management (SJRWMD) Address: PO Box 1429 Palatka, FL 32178 Email: cmaxwell@sjrwmd.com Phone: 386-937-0605 Fax: Requested Due Date:	Section B Required Project Information: Report To: Carey Maxwell Copy To: Purchase Order #: Project Name: Paint Chips Project #:	Section C Invoice Information: Attention: Company Name: Address: Pace Quote: Pace Project Manager: cameron.meynardie@pacelabs.com, Pace Profile #: 7314-5 State / Location: FL Regulatory Agency:
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Page: 1 Of 1

ITEM #	MATRIX CODE Drinking Water DWL Water WTL Waste Water WTW Product P Solid Solid SLL MLI MPE Other OT Tissue TS	SAMPLE TYPE (G-GRAB G-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST Y/N	Requested Analysis Filtered (Y/N)			Received on	Temp in C	Samples Intact (Y/N)	Cooler (Y/N)	Sealed (Y/N)	Custody (Y/N)	Received on		
			START DATE	END DATE					DATE	TIME	DATE								TIME	DATE
1	Palmbro		DATE: 080519	START TIME: 1030			Unpreserved		X											
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Receipt Form (SCUR)

Project # **WO# : 35487071**
Project Manager: PM: CEM **Due Date:** 08/12/19
Client: CLIENT: 37-SJRWMD

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

Thermometer Used: T-337 **Date:** 8/15/19 **Time:** 1254 **Initials:** [Signature]

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

- | | |
|---|--|
| Cooler #1 Temp. °C 23.3 (Visual) 40.3 (Correction Factor) 23.6 (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> 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 International Priority
 Other _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No **Seals intact:** Yes No **Ice:** Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other _____

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

Comments:

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

Client Notification/ Resolution:

Person Contacted: _____ **Date/Time:** _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____

Date: _____