



**FACILITY AUXILIARY BUILDING
UNIVERSITY OF SOUTH CAROLINA AIKEN
STATE PROJECT NO.: H29-9552/50003331-2
JCS PROJECT NO: 18103**

**ADDENDUM #01
June 7, 2019**

GENERAL INFORMATION:

- Please reference the SE-310 Invitation for Design-Bid-Build Construction Services. The corrected amount of the Construction Cost Range is \$2,000,000 to \$2,250,000.
- The deadline for questions is Tuesday, June 11th at 3PM. All questions should be directed via email to L. Todd Sease, AIA at Jumper Carter Sease Architects. His email address is listed on the SE-310.
- If needed, a last addendum will be issued no later than Thursday, June 13th by 3PM. Please continue to check purchasing.sc.edu for updates.
- The closing is scheduled for Tuesday, June 18th at 1300 Pickens Street; Conference Room 100C; Columbia SC 29208. All sealed bids should have the following information on the outside envelope: Clarissa Clark "Bid Enclosed H29-9552/50003331-2; 1300 Pickens Street; Columbia SC 29208." Bids may either be hand-delivered or mailed.
- Please see the attached sign in sheets for the attendees of the non-mandatory pre-bid conference held June 5, 2019 at 10:00 am.
- Please see the attached existing geotechnical report dated 10/23/15. The information contained in this report was utilized in the structural design of this project and is provided as general information to all bidders.

SPECIFICATIONS:

1. **SPECIFICATION SECTION SE-330 Lump Sum Bid Form; Page BF 3, Item 9A, Contract time:**
Change the sentence to read: Bidder agrees that the Date of Commencement of the Work shall be established in a Notice to Proceed to be issued by the Owner. Bidder agrees to substantially complete the Work within 300 Calendar Days from the Date of Commencement, subject to adjustments as provided in the Contract Documents.

END OF ADDENDUM #01

University of South Carolina
Non Mandatory Pre Bid Sign In Sheet
 Aiken, SC

Project Name: Aiken Facility and Auxiliary Service Building
 Project Number: H29-9552/50003331-2
 Pre Bid Date, Time & Location: June 5, 2019 10AM; Penland Building Room 106; 471 University Parkway

SWMBE Contractor Indicate Below	Name	Company Name	Address	Phone #	Email
SWMBE	dellane Batchelor	Allen + Batchelor	1063 Frauke Ind. Augusta, GA 30909	706-803-6534	dellane@allenbatchelor.com
SWMBE	Norman Morris	Landmark Builders of SC	1404 Greenais St Columbia, SC	803-624-0546	nmorris@landmarkbuilders.com
SWMBE	Jonathan Saul	RW Allen Construction	1015 Broad St. Augusta GA 30901	706-733-2800	jsaul@rwallen.com
SWMBE	Annie Morgan	Clifton Construction	4324 Wheeler Rd Martinez, GA 30007	706-306-7792	annie@sdclifton.com
SWMBE	Diane Coughlin	"	"	"	Diane@sdclifton.com
SWMBE	Brian Ester	USCA			bprimen@usca.edu
SWMBE	Jeff Jenik	USCA		803-641-3258	jeff@usca.edu
SWMBE					
SWMBE					

*****By signing this sheet you agree to receive information electronically.

University of South Carolina
Non Mandatory Pre Bid Sign In Sheet
Aiken, SC

Project Name: Aiken Facility and Auxiliary Service Building
Project Number: H29-9552/50003331-2
Pre Bid Date, Time & Location: June 5, 2019 10AM; Penland Building Room 106; 471 University Parkway

SWMBE Contractor Indicate Below	Name	Company Name	Address	Phone #	Email
SWMBE	Lisa Graft	USE Aiken		803-641-2856	lisag@usca.edu
SWMBE	Wade Bozeman	Gilliam + Associates	1652 Columbia Hwy Aiken, SC 29801	803-643-8170	wade@gilliamandassociates.com
SWMBE	Charlie White	Tyler Construction Corp.	P.O. Box 25041 Columbia, SC 29924	845-238-9956	charlie@tylerconstruction.com
SWMBE	Tim Tharntone	A.D. Browne Const.	P.O. Box 6535 N. Hughes St. SC	803-279-3176	tharntone@browneconst.com
SWMBE	Scott Thompson	WT-11scot	16724 Grand River Road Irmo, SC	803-270-5511	scott.thompson@wt11scot.com
SWMBE	Sean McBride	MSK Construction Inc.	1920 Dunbar St. Suite D Charleston SC 29407	843-789-3116	sean@mskconstructioninc.com
SWMBE	Firstin Ready	Pyramus Contracting	1108-A Wykes Ln Irmo, SC 29063	803-732-2050	estimating@pyramuscontracting.com
<div style="border: 1px solid black; border-radius: 50%; padding: 2px;">SWMBE</div>	Bill Graves	Construction Dynamics, Inc.	6417 FAIRFIELD DR COLUMBIA, SC 29813	803-754-3393	BGRAVES@CDI-SC.COM
SWMBE	Michael Chan	Barton Malow Co.	1923-B South Blvd Charlotte, NC 28203	704-351-9769	Michael.Chan@bartonmalow.com

****By signing this sheet you agree to receive information electronically.

University of South Carolina

Non Mandatory Pre Bid Sign In Sheet

Aiken, SC

Project Name:

Aiken Facility and Auxiliary Service Building

Project Number:

H29-9552/50003331-2

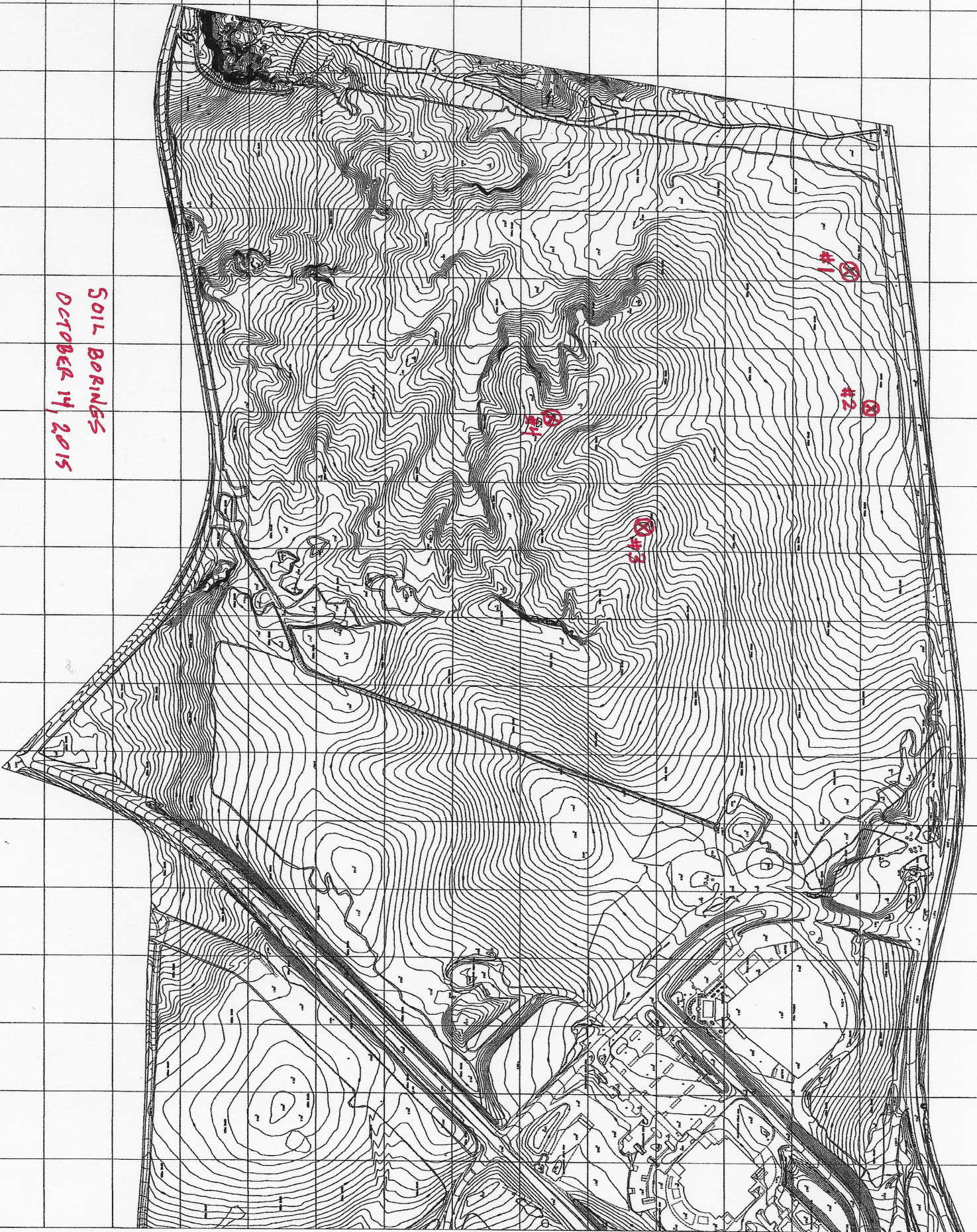
Pre Bid Date, Time & Location:

June 5, 2019 10AM; Penland Building Room 106; 471 University Parkway

SWMBE Contractor indicate Below	Name	Company Name	Address	Phone #	Email
SWMBE	Eric Bowen	JH Cleveland	618 Ponder Place Evans, Ga. 30809	766-8333 4986	eric@jhcleveland.com
SWMBE	Kevin Key	Lyn-Rip Contracting Co.	1135 Baywater Dr West Columbia, SC 29169	803-896-2933	lynreich@aol.com
SWMBE	Bart Sease	Edcon Inc.	P.O. Box 100 Aiken, SC 29801	803-345-3791	bart@edconinc.com
SWMBE	Nathan Stewart	J.E. Stewart Builders	237 Charleston Rd Aiken, SC 29801	803-646-4600	nathan@stewartbuilders.com
SWMBE	Joseph Akins	PAUL S. AKINS CONTRACTORS	P.O. Box 941 Statesboro, GA 30459	912-7164-6975	joe@pakinco.com
SWMBE	Ford Tupper	SUMMIT ASSOC. INC	P.O. Box 6576 Columbia, SC 29260	803-787-8717	Admin@Summitatt.com
SWMBE	Thatcher Hurt	USC	743 Greene St Columbia, SC 29	803-457-5138	thrtth@mailbox.sc.edu
SWMBE	POD SEASE	KS Architects	412 meecham st West Columbia, SC	803-791-1020	tabb@jssarchitects.com
SWMBE					

***By signing this sheet you agree to receive information electronically.

SOIL BORINGS
OCTOBER 14, 2015



Tifton Physical Soil Testing Laboratory, Inc.

1412 MURRAY AVENUE
TIFTON, GEORGIA 31794
Phone: (229) 382-7292
Fax: (229) 382-7992
www.tiftonsoillab.com



TESTING CERT #1014.01

Best Sample

Page 1 of 6

Date Received: October 21, 2015
Date Reported: October 23, 2015
Sample Number: L214-15

Test Report For: David Johnson Golf Design, LLC
694 Cooledge Avenue NE
Atlanta, GA 30306

RE: First Tee of Aiken Short

Attn: David Johnson

PHYSICAL ANALYSIS¹

MIXES ANALYZED (% by Volume)			SATURATED HYDRAULIC CONDUCTIVITY in/hr	POROSITY (%)			BULK DENSITY g/cm ³	WATER RETENTION AT FIELD CAPACITY %	CHEMICAL	
SOIL	SAND	AMENDMENT		NON- CAPILLARY (air-filled)	CAPILLARY (water-filled)	TOTAL			pH ²	EC ³ mmhos/cm
USGA Recommendations for Rootzone Mix:			Minimum of 6 in/hr.	15 - 30	15 - 25	35 - 55				

PARTICLE DENSITY⁴ g/cm³

PARTICLE SIZE ANALYSIS

SAMPLES	GRAVEL 2 mm %	SAND FRACTIONS (% Retained) ⁵					SAND ⁶ 0.05-2 mm %	SILT ⁶ 0.002-0.05 mm %	CLAY ⁶ < 0.002 mm %	ORGANIC MATTER ⁷ % by wt.
		VERY COARSE 1 mm	COARSE 0.5 mm	MEDIUM 0.25 mm	FINE 0.15 mm	VERY FINE 0.05 mm				
Sample #1	2.5	8.6	17.7	27.0	19.7	11.5	84.5	7.0	6.0	
USGA Recommendations for a Rootzone Mix:	≤ 10% (≤ 3% gravel)	60% minimum			≤ 20%	≤ 5%		≤ 5%	≤ 3%	

Note: Total 'fines' (very fine sand, silt, and clay) in a rootzone mix should be less than (<) 10%.

1. Determined at 30 cm tension by USGA testing protocol (ASTM F1815) 2. ASTM D4972 Method A (water only) 3. SSSA Soluble Salts 4. SSSA Particle Density 5. ASTM C136 and F1632 6. Bouyoucos, 1962 7. ASTM F1647 8th Revision 05/17/2010

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TESTING CERT #1014.01

Date Received: October 21, 2015

Date Reported: October 23, 2015

Sample Number: L214-15

Test Report For: David Johnson Golf Design, LLC

RE: 694 Cooledge Avenue NE

Atlanta, GA 30306

Attn: David Johnson

Revised 05/17/2010

Recommendations:

A complete particle size analysis was made on Sample #1 from David Johnson Golf Design, LLC on October 21, 2015, to determine its particle size in relation to USGA particle size recommendations for a greensmix sand for the First Tee of Aiken Short Course and Practice Facility. The condition of the sample as received was normal.

Sample #1 is composed of a fine sand that is 1.1% coarser and 14.5% finer than USGA particle size recommendations for a greensmix as shown at the bottom of the report. This Sand has 2.5% gravel and 8.6% very coarse sand particles whereas the USGA recommends no more than 10% particles within these two combined fractions, but less than 3% gravel. This Sand is also finer than USGA recommendations for a greensmix as it has 11.5% very fine sand whereas the USGA recommends $\leq 5\%$ and 24.5% fines (total of 11.5% very fine sand, 7.0% silt, and 6.0% clay) whereas the USGA recommends $< 10\%$ in a greensmix sand. Fines have a reducing effect on the water permeability rate of a sand.

Conclusion: Even though this Sand is much finer than USGA particle size recommendations for golf green construction sand, its fine particle size could make it suitable for a Sportsturf Rootzone Mix (SRM) sand for athletic field construction. It could also be used to cap off tees for the construction of tees on a golf course. It would also be a good fairway capping sand. All of these suggestions are dependent on the sand having a water permeability rate of at least 8 in/hr.

Rowell Gimes

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TESTING CERT #1014.01

Page 3 of 6

Date Received: October 21, 2015

Date Reported: October 23, 2015

Sample Number: L214-15

Test Report For: David Johnson Golf Design, LLC

694 Cooledge Avenue NE

Atlanta, GA 30306

RE: *David Johnson Golf Design, LLC*

Attn: David Johnson

PHYSICAL ANALYSIS¹

MIXES ANALYZED (% by Volume)			SATURATED HYDRAULIC CONDUCTIVITY in/hr	POROSITY (%)			BULK DENSITY g/cm ³	WATER RETENTION AT FIELD CAPACITY %	CHEMICAL	
SOIL	SAND	AMENDMENT		NON- CAPILLARY (air-filled)	CAPILLARY (water-filled)	TOTAL			pH ²	EC ³ mmhos/cm
USGA Recommendations for Rootzone Mix:			Minimum of 6 in/hr.	15 - 30	15 - 25	35 - 55				

PARTICLE DENSITY⁴ g/cm³

PARTICLE SIZE ANALYSIS

SAMPLES	GRAVEL 2 mm %	SAND FRACTIONS (% Retained) ⁵					SAND ⁶ 0.05-2 mm %	SILT ⁶ 0.002-0.05 mm %	CLAY ⁶ < 0.002 mm %	ORGANIC MATTER ⁷ % by wt.
		VERY COARSE 1 mm	COARSE 0.5 mm	MEDIUM 0.25 mm	FINE 0.15 mm	VERY FINE 0.05 mm				
Sample #2	0.2	0.5	1.5	37.7	37.7	9.4	86.8	9.0	4.0	
USGA Recommendations for a Rootzone Mix:	≤ 10% (≤ 3% gravel)	60% minimum			≤ 20%	≤ 5%		≤ 5%	≤ 3%	

Note: Total 'fines' (very fine sand, silt, and clay) in a rootzone mix should be less than (<) 10%.

1. Determined at 30 cm tension by USGA testing protocol (ASTM F1815) 2. ASTM D4972 Method A (water only) 3. SSSA Soluble Salts 4. SSSA Particle Density 5. ASTM C136 and F1632 6. Bouyoucos, 1962 7. ASTM F1647 8th Revision 05/17/2010

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TESTING CERT #1014.01

Date Received: October 21, 2015

Date Reported: October 23, 2015

Sample Number: L214-15

Test Report For: David Johnson Golf Design, LLC

RE: 694 Cooledge Avenue NE

Atlanta, GA 30306

Attn: David Johnson

Revised 05/17/2010

Recommendations:

A complete particle size analysis was made on Sample #2 from David Johnson Golf Design, LLC on October 21, 2015, to determine its particle size in relation to USGA particle size recommendations for a greensmix sand for the First Tee of Aiken Short Course and Practice Facility. The condition of the sample as received was normal.

Sample #2 is a fine sand that is 22.4% finer than USGA particle size recommendations for a greensmix sand as shown at the bottom of the report. This Sand has 37.7% fine sand particles whereas the USGA recommends $\leq 20\%$, 9.4% very fine sand particles whereas the USGA recommends $\leq 5\%$, and 22.4% fines (9.4% very fine sand, 9.0% silt, and 4.0% clay) whereas the USGA recommends $< 10\%$ fines in a greensmix sand. Fines have a reducing effect on the water permeability rate of a sand.

Conclusion: Even though this Sand is much finer than USGA particle size recommendations for golf green construction sand, its fine particle size could make it suitable for a Sportsturf Rootzone Mix (SRM) sand for athletic field construction. It could also be used to cap off tees for the construction of tees on a golf course. It would also be a good fairway capping sand. All of these suggestions are dependent on the sand having a water permeability rate of at least 8 in/hr.

Rowell Gimes

Recommendations are based on the samples received. Results and comments relate to the samples tested. This report cannot be reproduced except in full, and not without written approval of the laboratory.

**FIRST TEE OF AIKEN / USC-AIKEN SHORT COURSE AND PRACTICE
FACILITY
SOIL BORINGS
October 14, 2015**

Borings taken by Jerre Johnson (Geologist) and David Johnson

Soil Boring #1 –

<u>Depth</u>	<u>Description</u>
0'-8"	Topsoil, Sandy Loam w/leaves to 2"
8"-2'-3"	Fine Sand
2'3"-3.5'	Medium/Coarse Sand
3.5'-6'	Medium/Coarse Sand
6'-7.5'	Medium/Coarse Sand – small clumps of clay
7.5'-10.5'	Medium/Coarse Sand – scattered pebbles
10.5'-12.5'	A little more clay
12.5'-14.0'	More clay, then more sandy starting at 14.0'

Soil Boring #2 –

<u>Depth</u>	<u>Description</u>
0' -1.5'	Topsoil
1.5'-9.0'	Medium/Coarse Sand with some mottling
9.0'-16.0'	Medium Sand with a little more clay at 10.0'. Partially cemented, weakly indurated (hardened)
16.0'-17.5'	Coarse Sand, less cementation
17.5'-19.0'	Whitish sand, possible kaolin

Soil Boring #3 –

<u>Depth</u>	<u>Description</u>
0'-1.0'	
1.0'-3'	Fine/Medium Sand w/mottled iron oxides
3.0'-5.5'	White Sand with some clay balls – laminae
5.5'-6.0'	Sand oxidized
6.0'-10.0'	Sand – a little more white at 8'-10'

Soil Boring #4 –

<u>Depth</u>	<u>Description</u>
0'-1.0'	
1.0'-4.0'	Fluffy, fine to medium sand – turning to mottled with some silt
4.0'-4.5'	Finer Sand
4.5'-9.0'	Fluffy White Sand with oxidation, minor cementing at 7.5'-9.0'