

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

McCALLUM
TESTING LABORATORIES
Geotechnical Engineering, Materials Testing & Environmental Services
 1808 Hayward Avenue • Chesapeake, VA 23320
 Phone: 757-420-2520 • Fax: 757-424-2834

CLIENT: Centre 800, LLC
 800 Seahawk Circle
 Suite 107
 Virginia Beach, VA 23452
 Attention: A.R. (Rick) Gregor, Jr.

PROJECT: Sediment Basin
 810 West Constance Road
 Suffolk, Virginia
 MTL Project 264165

INSPECTOR: Stephan Cherry **DATE:** 04/03/26


PROJECT SPECIFICATIONS:	ASTM Standard:	<input checked="" type="checkbox"/> D 698	Source of Material:	<u>Paxton</u>
		<input type="checkbox"/> D 1556	Material Type:	<u>Silty Sand</u>
	<input type="checkbox"/> VTM-1	<input type="checkbox"/> D 1557	Lift Thickness (in.):	<u>12</u>
	Required Compaction:	<u>95</u> %	Moisture Range:	<u>± 3</u> %

NUCLEAR GAUGE:	
Model:	<u>3411-B</u>
Gauge Serial:	<u>11019</u>

TEST NO.	TEST LOCATION	PROBE DEPTH (IN)	LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS					RETEST		
				SAMPLE NO.	OPTIMUM MOISTURE CONTENT (%)	MAX DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	DRY UNIT WT. (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	PASS	FAIL
1	North side of the basin	8	7	26-603	12.5	106.9	12.1	105.8	99.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2	South side of the basin	8	7	26-603	12.5	106.9	11.6	106.7	99.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3										<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4										<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
5										<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
6										<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS: (1) All tests were performed according to the procedures outlined by ASTM D 6938.

DISTRIBUTION:


Jon W. Ebbert, P.E.
 Chief Engineer

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INSPECTOR: Stephan Cherry **DATE:** 03/23/26

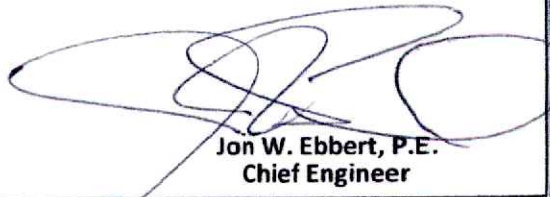
PROJECT SPECIFICATIONS:	ASTM Standard:	<input checked="" type="checkbox"/> D 698	Source of Material:	<u>Import</u>
		<input type="checkbox"/> D 1556	Material Type:	<u>Select Fill</u>
	<input type="checkbox"/> VTM-1	<input type="checkbox"/> D 1557	Lift Thickness (in.):	<u>12</u>
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1	North side of the basin	8	3	26-603	12.5	106.9	15.1	107.2	100+	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2	South side of the basin	8	3	26-603	12.5	106.9	15.3	107.1	100+	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3	North side of the basin	8	4	26-603	12.5	106.9	16.9	106.8	99.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4	South side of the basin	8	4	26-603	12.5	106.9	17.8	107.4	100+	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
5										<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
6										<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

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Centre 800, LLC
800 Seahawk Circle
Suite 107
Virginia Beach, VA 23452

Attention: A.R. (Rick) Gregor, Jr.

Subject: Proofrolling Inspection and Compaction Testing - 3/19/26
Sediment Basin
810 West Constance Road
Suffolk, Virginia
MTL Project 264165

Dear Mr. Gregor:

On this date, our senior technician, Stephan Cherry, was on site to monitor proofrolling of the subgrade for the sediment basin at the above referenced site. Prior to this inspection, the site contractor had stripped the area of all organics and topsoil to expose a subgrade of saturated sandy clays with debris.

Proofrolling was performed with a loaded tandem dump truck provided by the site contractor. Under the load and action of the proofroller, the subgrade showed excessive pumping and/or rutting in the area indicated on the attached plan. Test pits were excavated and indicated the unstable material extended to a depth of 1 ft. where firm gray sandy clay was encountered. The unstable area was therefore recommended to be undercut and replaced with properly compacted select sand. The measured plan dimensions and recommended undercut depth are presented below:

AREA	DIMENSIONS (FT.)
A	10 x 10 x 1

In addition, our technician performed compaction testing. Attached are the results of the compaction testing showing the areas inspected this date.

Should you have any questions concerning this report, please do not hesitate to contact this office at your earliest convenience.

Very truly yours,

McCALLUM TESTING LABORATORIES

JON W. EBBERT

Lic. No. 034560

Jon W. Ebbert, P.E.

Chief Engineer

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 Attention: A.R. (Rick) Gregor, Jr.

PROJECT: Sediment Basin
 810 West Constance Road
 Suffolk, Virginia
 MTL Project 264165

INSPECTOR: Stephan Cherry **DATE:** 03/20/26

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		<input type="checkbox"/> D 1556	Material Type:	<u>Select Fill</u>
	<input type="checkbox"/> VTM-1	<input type="checkbox"/> D 1557	Lift Thickness (in.):	<u>12</u>
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				SAMPLE NO.	OPTIMUM MOISTURE CONTENT (%)	MAX DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	DRY UNIT WT. (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	PASS	FAIL
1	North side of building pad	8	1	26-603	12.5	106.9	15.9	107.9	100+	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2	South side of building pad	8	1	26-603	12.5	106.9	16.3	106.3	99.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3	South side of building pad	8	2	26-603	12.5	106.9	16.7	106.4	99.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4	South side of building pad	8	1	26-603	12.5	106.9	15.8	106.8	99.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
5										<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
6										<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

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Virginia Beach, VA 23452

Attention: A.R. (Rick) Gregor, Jr.

Subject: Site Inspection - 3/13/26
Sediment Basin
810 West Constance Road
Suffolk, Virginia
MTL Project 264165

Dear Mr. Gregor:

On this date, our senior technician, Robert Kraemer, was provided at the above mentioned project to make an inspection of the undercutting of the unsuitable soils and materials from the sediment basin. The site contractor had demucked bottom and removed all organic material from bottom and sides.

Based on the results of our inspection, it was our opinion that the area inspected was being prepared in accordance with the recommendations made previously. The contractor's representative was made aware of our inspection results. The attached print indicates the locations undercut this date.

Should you have any questions concerning this report, please contact this office at your convenience.

Very truly yours,

McCALLUM TESTING LABORATORIES

JON W. EBBERT
Lic. No. 034560

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Chief Engineer