



CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY THAT THE FOLLOWING ELECTRONIC RECORDS ARE TRUE AND ACCURATE REPRODUCTIONS OF THE ORIGINAL RECORDS OF JAMES CITY COUNTY GENERAL SERVICES DEPARTMENT- STORMWATER DIVISION; WERE SCANNED IN THE REGULAR COURSE OF BUSINESS PURSUANT TO GUIDELINES ESTABLISHED BY THE LIBRARY OF VIRGINIA AND ARCHIVES; AND HAVE BEEN VERIFIED IN THE CUSTODY OF THE INDIVIDUAL LISTED BELOW.

BMP NUMBER: 99107

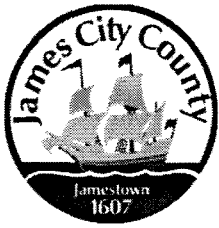
DATE VERIFIED: July 3, 2012

QUALITY ASSURANCE TECHNICIAN:

Leah Hardenbergh

Leah Hardenbergh

LOCATION: WILLIAMSBURG, VIRGINIA



Stormwater Division

MEMORANDUM

DATE: March 13, 2010
TO: Michael J. Gillis, Virginia Correctional Enterprises Document Management Services
FROM: Jo Anna Ripley, Stormwater
PO: 270712
RE: Files Approved for Scanning

General File ID or BMP ID: 99107

PIN: 3240100041

Subdivision, Tract, Business or Owner

Name (if known):

Longhill Excavating

Property Description:

General Files

Site Address:

5093 Longhill Road

(For internal use only)

Box 3

Drawer: 2

Agreements: (in file as of scan date) N

Book or Doc#:

Page:

Comments

The mailing address used by Longhill Excavating is 5099 Longhill Road, but the address assigned by the County's Real Estate Division is 5093 Longhill Road

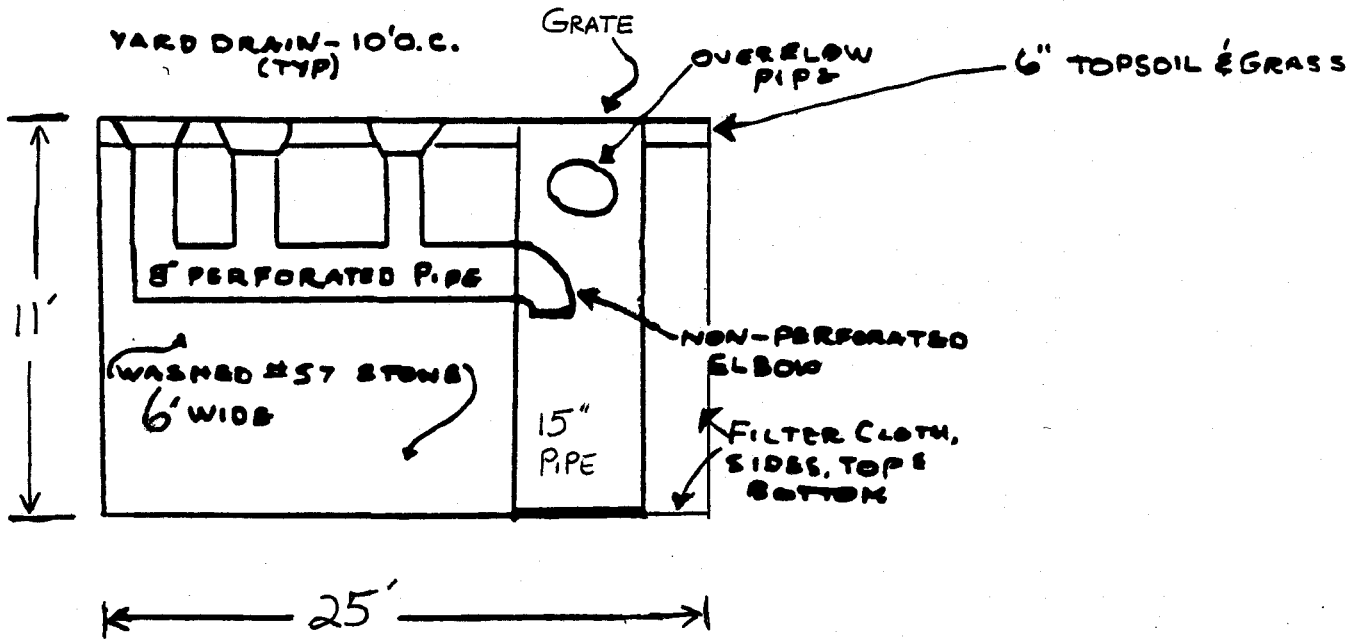
Contents for Stormwater Management Facilities As-built Files

Each File is to contain:

- 1. Maintenance Agreement
- 2. Construction certification
- 3. As-Built plan
- 4. Design Calculations
- 6. Correspondence
- 7. Inspection records
- 8. Miscellaneous

LONGHILL EXCAVATING PARKING
LOT EXPANSION

AS-BUILTS



SECTION - BMP
N.T.S.

4/98

3

TABLE 1
SUMMARY OF LABORATORY TEST DATA

Project: Longhill Excavation
ECS Project No: R3480
Location: James City County, Virginia
Date: March 26, 1997

BORING NUMBER	SAMPLE LOCATION	DEPTH (IN.)	MOISTURE CONTENT %	% PASSING No. 200	PLASTICITY LL / PI	USCS SYMBOL
HA-1	SS	60-76	19.9	48.2	-	SC
HA-1	SS	76-84	23.6	61.7	-	CL
HA-2	SS	60-84	16.0	28.0	-	SC
HA-2	SS	90-108	22.2	63.6	-	CL

HANDAUGER BORING LOG HA-1

**Longhill Excavating
James City County, Virginia**

ECS Job No. R3480

Depth (ft)	Notes	Soil Description
0		8 inches topsoil
		Tan, moist to wet, Silty, fine sand (SM)
2		Orange and Tan, moist to wet, fine Sandy CLAY (CL)
4		Yellowish Brown, Orange, and Tan, moist, fine Sandy CLAY (CL)
		Orange, Yellowish Brown, and Gray, moist to wet, Clayey, fine to medium SAND (SC)
6	Contains fat clay pockets below 5 ft	Orange, Red, and Gray, moist to wet, fine Sandy CLAY (CL)
8		Orange, Red, and Gray, moist to wet, Silty, Clayey, fine to medium SAND (SM-SC)
10		Orange, Red, and Gray, moist to wet, fine Sandy CLAY (CL)

Bottom of Boring 10 Ft.

HANDAUGER BORING LOG HA-2

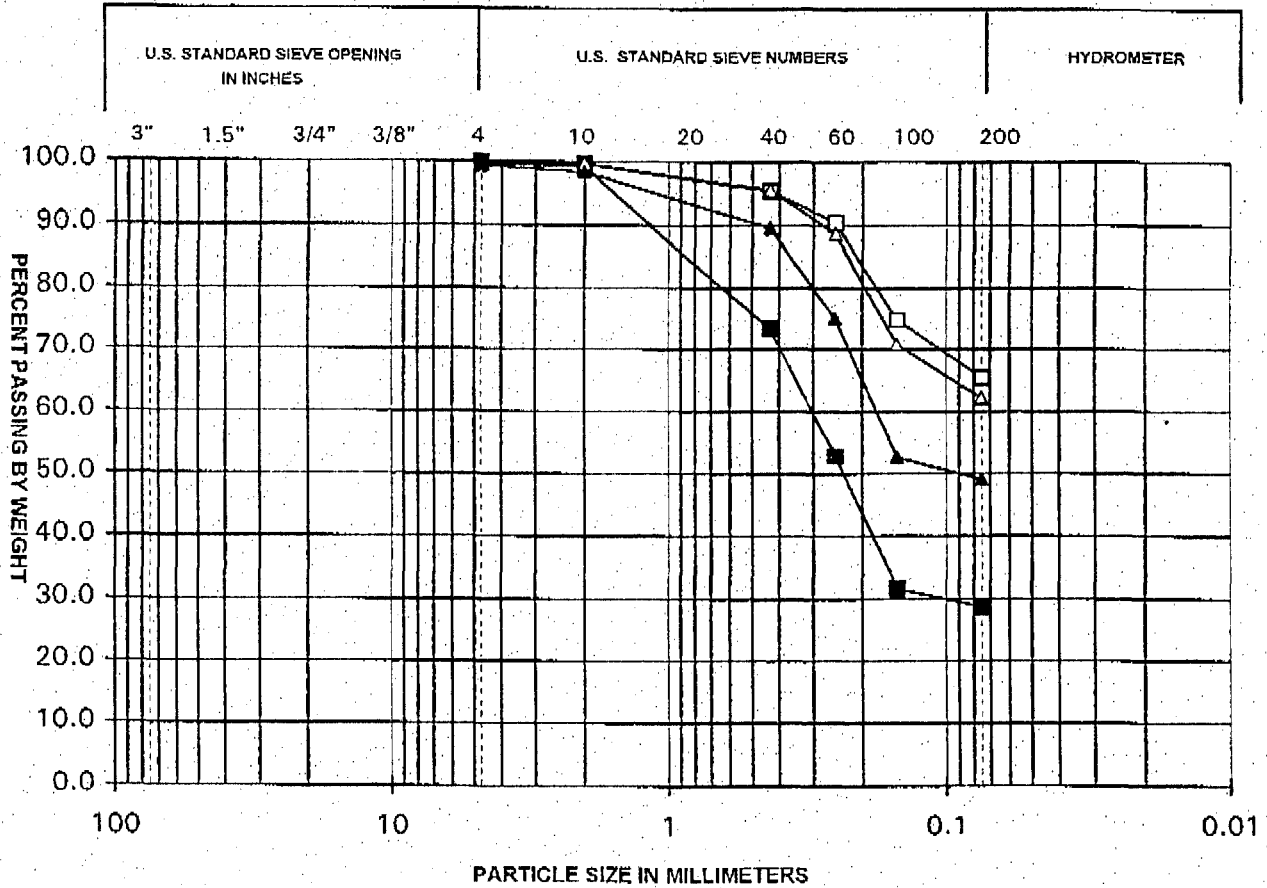
**Longhill Excavating
James City County, Virginia**

ECS Job No. R3480

Depth (ft)	Notes	Soil Description
0		8 inches topsoil
2		Orangish Brown and Tan, moist to wet, Clayey, fine SAND (SC)
4		Yellowish Brown, Red, and Gray, moist to wet, Clayey, fine to medium SAND (SC)
6	Contains fat clay pockets below 5 ft	Orange, Red, and Gray, moist to wet, fine to medium Sandy CLAY (CL)
8		Orange and Gray, moist to wet, Silty, Clayey, fine to medium SAND (SM-SC)
10		

Bottom of Boring 10 Ft.

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



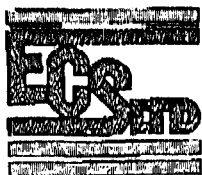
Boring/ Sample No.	Depth (feet)	Symbol	LL	PI	Description
HA-2/2	7.5-9.0	□			FINE TO MEDIUM SANDY CLAY (CL)
HA-2/1	5.0-7.0	■			CLAYEY, FINE TO MEDIUM SAND (SC)
HA-1/2	6.3-7.0	△			FINE SANDY CLAY (CL)
HA-1/1	5.0-6.0	▲			CLAYEY, FINE TO MEDIUM SAND (SC)

Project: LONGHILL EXCAVATING
Project No.: R3480

Date: 3/26/97

Engineering Consulting Services, Ltd
Richmond, Virginia

Particle Size Distribution Curves



ENGINEERING CONSULTING SERVICES, LTD.
Geotechnical • Construction Materials • Environmental

March 26, 1997

Longhill Excavating, Inc.
5099 Longhill Road
Williamsburg, Virginia 23188
Attn: Mr. Jimmy Minor

REF: Longhill Excavating - Infiltration Exploration
Longhill Road
James City County, Virginia

ECS Project No. R3480

Dear Mr. Minor:

Pursuant to your request, ECS, Ltd. has performed an infiltration investigation at the site of the above referenced project. The purpose of this exploration was to provide estimates of infiltration rates for the proposed infiltration trench to be constructed at the project site. This exploration was accomplished by performing a handauger boring at each end of the proposed infiltration trench, as indicated on the site plan provided; by performing gradation analyses tests on selected samples; and by utilizing the field and laboratory data to estimate infiltration coefficients on the basis of published infiltration/permeability data. In addition, soil survey data available in the James City County soil survey publication was employed.

Attached herein are handauger boring logs for the two handaugers performed at this site. The site of the proposed infiltration trench is located about 200 feet east of the Longhill Excavating residential type building at 5099 Longhill Road. The area of the proposed infiltration trench was vegetated with 2 inch diameter pines. Handauger boring HA-1 was performed at the end of the proposed infiltration trench nearer to Longhill Road. Handauger boring HA-2 was performed about 50 feet southwest of HA-1 in the opposite end of the proposed infiltration trench. These locations were selected in the field by Mr. Jimmy Minor. Soil samples which were subjected to laboratory testing were obtained at depths between about 5 to 9 feet below existing surface grade. The results of the lab testing are indicated in Table 1. The sieve analysis results are included herein.

2119 D North Hamilton Street, Richmond, Virginia 23230 • (804) 353 6333 • Fax (804) 353 9478

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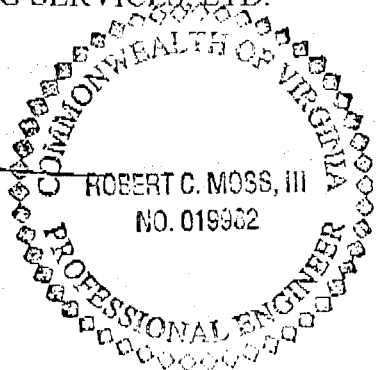
Based on our review of the soil survey for James City County, it appears that the site is dominated by the Kempsville series soils to depths of 2 to 6 feet and Craven series soils below that depth. Assuming an infiltration surface on soils at about 5 or 6 feet below the surface, we estimate the effective infiltration rate in these soils to be approximately 0.2 in/hr. Estimates of permeability based on gradations are consistent with estimated soil parameters found in the soil survey.

We appreciate this opportunity to be of service to you on this project and trust you will call on us if you have questions concerning this exploration

Very truly yours,

ENGINEERING CONSULTING SERVICES, LTD.


Robert C. Moss, III, P.E.
Vice President
Richmond Branch Manager



Copies: (3) Client

Attachments: Handauger Boring Logs (2 sheets)
Sieve Analysis results (1 sheet)

GEOTECH/CTR/R3480