



- Ecology
- Soil & Wetland Studies
- Water Quality Monitoring • GPS
- Environmental Planning & Management
- Ecological Restoration & Habitat Mitigation
- Aquatic, Wildlife and Listed Species Surveys
- Application Reviews • Permitting & Compliance

June 14, 2016

Town of Mansfield
Inland Wetlands Agency
14 Park Place
Mansfield, CT 06226-2217

Re: WETLANDS ASSESSMENT-SUPPLEMENTAL: SOIL TESTING
Lodges at Storrs, Hunting Lodge Road, Mansfield, CT

REMA Job No.: 15-1860-MNS18

Dear Agency Members:

REMA ECOLOGICAL SERVICES, LLC (REMA), is providing herein our findings resulting from soil exploration at the locations of the ten (10) water quality/bioretention basins for the residential development proposal (see Table A, attached). These were conducted on May 25th, 2016, using a spade and auger. Test pits/holes were advanced by hand to 36 to 40 inches or to refusal. The primary objective was to document depths of seasonal high groundwater table in response to Item #4 of the May 12th, 2016, GEI application review.

Respectfully submitted,

REMA ECOLOGICAL SERVICES, LLC

Sigrun N. Gadwa, MS, PWS
Professional Wetland Scientist
Registered Soil Scientist

George T. Logan, MS, PWS, CE
Professional Wetland Scientist
Registered Soil Scientist, Certified Senior Ecologist

VIA E-MAIL & HAND-DELIVERY

Attachment: Table A: Soil Test Hole Results

TABLE A: Soil Test Hole Results at locations of Bioretention Basins at the Proposed Lodges at Storrs - May 25, 2016

TEST HOLE¹	ELEVATION (ground surface)	SUBSOIL TEXTURE (dominant)	DEPTH TO FAINT MOTTLES (inches)	DEPTH TO PROMINENT MOTTLES (inches)	DEPTH TO SATURATION (inches)	SOIL DRAINAGE CLASS	UNDERDRAIN NEEDED?
1	557.6'	fine sandy loam				well	No
2	551.6'	fine sandy loam - loamy fine sand	29			well	No
3	557.0'	fine sandy loam	34		36	well	No
4	554.1'	fine sandy loam - loamy sand	21	32	33	moderately well	Yes
5	550.1'	fine sandy loam	21		25	moderately well	Yes
6	n/a						n/a
7	545.9'	fine sandy loam	17	25	26	moderately well	Yes
8	546.7'	fine sandy loam - loamy fine sand	16	20	22	moderately well	Yes
9	545	fine sandy loam	20	24	25	moderately well	Yes
10	551.5'	fine sandy loam	22		30	moderately well	Yes

¹ Soil test hole numbers correspond to the numbers of the bioretention basins/swales as seen on the site plans (3/18/2016)