

# TOWN OF NORTH CASTLE

WESTCHESTER COUNTY 17 Bedford Road Armonk, New York 10504-1898

RESIDENTIAL PROJECT REVIEW COMMITTEE Adam R. Kaufman AICP, Chair Telephone: (914) 273-3000 x 43 Fax: (914) 273-3554 www.nortcastleny.com

#### **RESIDENTIAL PROJECT REVIEW COMMITTEE (RPRC) APPLICATION**

Section I- PROJECT FARM TRIVE, BEDERD NY ADDRESS: Section III- DESCRIPTION OF WORK: INSTALLATION OF A SWIMMING POOL & PATTO

#### Section III- CONTACT INFORMATION:

APPLICANT: WILLIAM A EWHEN, PLA	
ADDRESS: 12 JEANNE COURT, CARMEL NY 10512	/
PHONE:MOBILE: 914.403: 6444 EMAIL: BUEINHORE	GMAL, CON
PROPERTY OWNER: COLLENT RALT	
ADDRESS: 9 HOBBY FARM DENTE, BEDFORD	NY 10504
PHONE:MOBILE: 914.329.867 EMAIL: EAYMOND. COH	EN @ CTT, COM
PROFESSIONAL: WINIAM A EINHERT, PLA	
ADDRESS: 12 JEANNE COURT, CARMEL NY 10512	
PHONE:MOBILE: 914 403 - 6444	
EMAIL: BILL EINHORN & GMAIL. COM	
Section IV- PROPERTY INFORMATION:	
Zone: <u>PIZA</u> Tax ID (lot designation) <u>DZ 104 - Z-10</u>	



Town of North Castle Residential Project Review Committee 17 Bedford Road Armonk, New York 10504 (914) 273-3542 (914) 273-3554 (fax)

# **RPRC COMPLETENESS REVIEW FORM**

This form represents the standard requirements for a completeness review for all Residential Project Review Committee submissions. Failure to provide all of the information requested will result in a determination that the application is incomplete.

Project Name on Plan: Cohen Residence,Proposed swimming pool
Initial Submittal Revised Preliminary
Street Location: 9 HobbyFarm Drive
Zoning District: R-2A Property Acreage: 1.976 Tax Map Parcel ID: 102.04-2-10
Date: 10/20/2021
DEPARTMENTAL USE ONLY
Date Filed: Staff Name:
Preliminary Plan Completeness Review Checklist Items marked with a are complete, items left blank are incomplete and must be completed, "NA" means not applicable.
1. Plan prepared by a registered architect or professional engineer
2. Aerial photo (Google Earth) showing the applicant's entire property and adjacent properties and streets
3. Map showing the applicant's entire property and adjacent properties and streets
4. A locator map at a convenient scale
5. The proposed location, use and design of all buildings and structures
B. Existing topography and proposed grade elevations
7. Location of drives

Location of all existing and proposed site improvements, including drains, culverts,

retaining walls and fences

#### RPRC COMPLETENESS REVIEW FORM

Page 2

<b>.</b>	Description of method of water supply and sewage disposal and location of such facilities
<b>1</b> 0.	The name and address of the applicant, property owner(s) if other than the applicant and of the planner, engineer, architect, surveyor and/or other professionals engaged to work
1.	Submission of a Zoning Conformance Table depicting the plan's compliance with the minimum requirements of the Zoning District
<b></b> 2.	If a tree removal permit is being sought, submission of a plan depicting the location and graphical removal status of all Town-regulated trees within the proposed area of disturbance. In addition, the tree plan shall be accompanied by a tree inventory includes a unique ID number, the species, size, health condition and removal status of each tree.
3.	If a wetlands permit is being sought, identification of the wetland and the 100-foot wetland buffer.
More	information about the items required herein can be obtained from the North Castle

Planning Department. A	copy of the Town Code can be obtained from Town Clerk or on the
North Castle homepage:	http://www.northcastleny.com/townhall.html

On this date, all items necessary for a technical review of the proposed site plan have been submitted and constitute a COMPLETE APPLICATION.



#### TOWN OF NORTH CASTLE

WESTCHESTER COUNTY 17 Bedford Road Armonk, New York 10504-1898

PLANNING DEPARTMENT Adam R. Kaufman, AICP Director of Planning Telephone: (914) 273-3542 Fax: (914) 273-3554 www.northcastleny.com

	GROSS LAND COVERAGE CALCULATIONS V	WORKSHEET
Applic	ation Name or Identifying Title:	_ Date: 10 28 202 )
Tax M	ap Designation or Proposed Lot No.: 102,04-2-10	
Gross	Lot Coverage	1 <u>21</u> (A) - 1077 - 107
1.	Total lot Area (Net Lot Area for Lots Created After 12/13/06):	<u>86,090,83</u>
2.	Maximum permitted gross land coverage (per Section 355-26.C(1)(b)):	13,132,70
3.	BONUS maximum gross land cover (per Section 355-26.C(1)(b)):	
115	Distance principal home is beyond minimum front yard setback x = 156	
4.	TOTAL Maximum Permitted gross land coverage = Sum of lines 2 and 3	14, 288.70
5.	Amount of lot area covered by <b>principal building:</b> <u>4867</u> existing + <u>4867</u> proposed =	4,867
6.	Amount of lot area covered by accessory buildings: existing + proposed =	0
7.	Amount of lot area covered by <b>decks:</b> 154,5 existing + proposed =	154.5
8.	Amount of lot area covered by <b>porches:</b> <u>372</u> existing + <u>o</u> proposed =	372
9.	Amount of lot area covered by <b>driveway, parking areas and walkways:</b> <u>7004,5</u> existing + proposed =	7004.5
10.	Amount of lot area covered by <b>terraces:</b> <u>168</u> existing + <u>874</u> proposed =	997
11.	Amount of lot area covered by <b>tennis court, pool and mechanical equip:</b> <u> </u> existing + <u>670</u> proposed =	670
12.	Amount of lot area covered by <b>all other structures:</b> 15 existing + proposed =	173
13. Pro	pposed gross land coverage: Total of Lines 5 – 12 =	14; 238
If Line	13 is less than or equal to Line 4, your proposal complies with the Town's maximu	um gross land coverage regulations

If Line 13 is less than or equal to Line 4, your proposal **complies** with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's regulations in a second seco

does not comply with a	a rown stored	AARRIS	
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Signature and Seal of P	rofessional Plen	Morksheet Z *	
	-	A. 001313 OP+	
		TE OF NEW	

10/20/2021





Only copies from the original of this topography map marked with an
priginal of the Land Surveyors embossed seal or red colored seal shall be
considered to be true, valid copies.

Unauthorized alteration or addition to a map bearing a licensed Land Surveyors seal is a violation of Section 7209, Subdivision 2 of the New York State Education Law.

Possession only where indicated.

Adjacent property lines and easements not surveyed or certified. Access to adjacent rights of way, easements and public or private lands not guaranteed or certified.

Underground utilities shown hereon are approximate and should be verified before excavating. Additional underground utilities are not shown or certified. Encroachments and structures below grade, if any, not shown or certified.

Subject to covenants, easements, restrictions, conditions and agreements

This map is prepared to show topography only and is not to be used for title transfer purposes. Map may not be certified to title companies and/or banks.

Tree species shown hereon to be verified by a licensed arborist and are not certified by surveyor.

Elevations shown hereon generally in accordance with North American Vertical Datum 88.

Premises hereon being Lot 15-16 as shown on a certain map entitled, "Subdivision Map of Northbrook Knoll." Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1988 as map number 23331.

Surveyed in accordance with Deed Control Number 610823182.

Premises shown hereon designated on the Town of North Castle Tax Maps as: Section 102.04, Block 2, Lot 10.

Property Address: 9 Hobby Farm Drive Bedford, NY 10506

TOPOGRAPHIC SURVEY
PREPARED FOR
RAYMOND COHEN
SITUATE IN THE
TOWN OF NORTH CASTLE
WESTCHESTER COUNTY, NEW YORK
<i>SCALE:</i> 1" = 20'

GRAPHIC SCALE

	C	) 1	0 2 	0	40 
			1	( IN FEET $)$ inch = 20 f	ft.

Project: Ref.04-075	Field Survey By:
21-353	CR/JE
Drawn By:	Checked By:
DA	DM





	ZONING TABLE		
are la	R-2A ZONING		
Eer F	REGULATION LOT AREA	REQUIRED/PERMITTED 2 ACRE/87,120 SQ.'	PROPOSED 86,090 SQ.' 1.976
tone	REQUIRED FRONT SETBACK	50'	239'
	DECK,ETC.	50'	50'
	POOL		50
	REQUIRED SIDE SETBACK TO POOL	30′	52'
	REQUIRED SIDE SETBACK TO POOL	30'	92′
	GROSS LAND COVERAGE WETLANDS BUFFER	14,288.7 SQ.' 100'	14,238 SQ.' 100'
NEW FENCE			
PINE	Shed Cor.Shed South 1.63'		
1APLE MAPLE	5 79 01 10" M-		
IAPLE	I Story Frame Building		
3" MAPLE	S 75 30' 00' W Store		
08 <sup>form</sup> P 469.05	N 3 55' 20" J 73.74'		
		bby Farms Dr	

NOTES									
	$\sim$								
	F. CAPPARELLI LANDSCAPE DESIGN								
635 Halstead Ave. Mamaroneck, NY 10543									
	914.698.6144 - 914.630.4647 Fclandscapedesign.com								
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3	TO OF NEW YOR								
No. Date	Description								
	A A A A A A A A A A A A A A A A A A A								
	PROPOSED POOL								
	SETBACKS/ZUNING								
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	TILIN NLJIULINUL								
	9 HOBBY HILLS FARM DRIVF								
	BEDFORD,NY 10504								
SCALE									
DRAWN BY	Т=16-0 <sup>-</sup> WHE								
CHECKED BY	9+EET NO.								
DATE	10/2021								





# POOL CONTRACTOR NOTES

Pool contractor is responsible for installing anti tracking pad as required by town. Pool contractor is responsible for erecting and maintaining erosion control measures as per town code. Andersen ALL ABOUT DOORS WINDOWS allaboutdoors.com Stone Pool contractor is responsible for installing and maintaining any temporary fencing as per town code. Pool contractor responsible for obtaining all permits and inspections in relation to pool construction. Pool contractor responsible for providing any electrical, hydraulic, or structural drawings as it relates to permit requirements for pool installation. Pool contractor to provide all pool bonding and bonding inspections. Pool cost should include all electrical work for pool including trenching. Pool contractor responsible for grading table top for pool area surround. Pool contractor responsible for removal of excess cut from pool excavation and table top creation from site... Pool contractor responsible for back filling and compacting operations around pool shell. Pool contractor to pressure test all lines prior to shooting pool. Pool contractor to report any discrepancies in layout to landscape architect. Pool contractor to provide concrete pad for pool equipment. Steps and pool benches to have steel reinforcing, #4 bar, 60 grade. Pool contractor to provide split main drains. JANDY NICHLESS 9 WATT All plumbing by pool contractor to be solid PVC COLOR LED LIGHT Concrete mix for shell shall be a minimum of 4000 PSI in 28 days. \*\* All suction outlets must be provided with a cover that conforms with reference standard ASME/ANSI All2.19.8M Colors and samples to be approved by landscape architect Price should include installation of winter safety cover Pool contractor to include price of pool water into contract Provide auto fill for pool

Pool/Spa Equipment Jandy Aqualink RS8 pool and spa controller with all sub panels and control centers. (or equivalent). Link Kit and firmware Hayward Cartridge filter Jandy Chlorine Generator system Hayward XI Natural Gas Heater I HP Jandy Stealth pump for pool Galaxy IHP Blower for spa Polaris 280 automatic pool cleaner and booster pump Jandy salt generator system <u>SVRS as per ASME A112.19.17</u>

\*\*\* Location of any above grade transformers to be discussed with home owner and landscape architect \*\* Any substitutions or additional equipment needed for pool or spa to be discussed with and agreed by client and Landscape Architect



- JANDY NICHLESS 9 WATT COLOR LED LIGHT



\*\* EXISTING AND PROPOSED DOORS WITHIN POOL AREA TO BE ALARMED AS PER SECTION R32 WINDOWS TO BE SCREENED OR ALARMED AND MEET UL2017

5SPA

~6'X9'

VF 14" COPING



\*\*POOL CONSTRUCTION SHA 2020 UNFORM CODE SUPPL AUTO SAFET ASTM F1346-9

PROVIDE 6" FREEBOARD

15' X 34'-4"

POOL

JANDY NICHLE COLOR LED LI





GAS POOL HEATE



326.4.2.1 THROUGH R326.4.2.6	F. CAPPARELLI LANDSCAPE DESIGN 635 Halstead Ave. Mamaroneck, NY 10543 914.698.6144 - 914.630.4647 Folandscapedesign.com
ALL MEET EMENTAND ANSI/APSP/ICC5 Y COVER TO MEET 91 STANDARD	Brance OF NEW YORK
COVER VAULT	
G'BENCH GHT GHT GHT	No. Date Description
	POOL DESIGN POOL SPECS
	COHEN RESIDENCE 9 HOBBY HILLS FARM DRIVE
	SCALE <b>I'=4-0'</b> DRAWN BY WHE CHECKED BY DATE 9/2021 DATE OF PRNT
	Puttered for Synaphier

NOTES

#### **General Notes:**

- 1. Contractor to verify all dimensions and conditions on the job and report all discrepancies to the Architect and/or owner before proceeding with the work.
- 2. All work shall conform to local and state building codes and regulations of all other agencies having jurisdiction.
- 3. Contractor shall obtain and pay for all required permits.

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- 4. All materials shall be new and of the best quality.
- 5. Contractors to be fully covered by Workmen's Compensation Insurance as may be required by law.
- 6. Contractors to remove all debris from premises as required. 7. Patch and repair exterior walls, as required.
- Site Work:
- 1. All footings to bear on firm undisturbed soil minimum bearing capacity of 12 tons per square foot. Bottom of footing min. 3'-6" below finish grade for frost proofing.
- 2. Trucks and heavy equipment shall not be permitted within 8' of foundation.
- 3. Backfill and compact equally on both sides of foundation wall.
- 4. Dispose of all excavated and demolished material in a legal manner.

### Concrete:

- 1. No concrete shall be poured on frozen ground or subject to freezing conditions.
- 2. 28 Day compressive strength of all concrete shall be 3000 p.s.i.
- 3. Concrete footing to be formed to sizes shown on drawings. 4. All concrete work shall comply with the latest provisions of ACI 318.
- 5. Reinforcing bars shall be of new billet steel conforming to ASTM A615, wire mesh to conform to ASTM 185.

#### Masonry:

- 1. Concrete masonry walls shall conform to "specifications for the design and construction of load bearing concrete masonry" published by the National Concrete Masonry Association.
- 2. All concrete block to be standard hollow load bearing units meeting ASTM C-90. Place cement 1/4 to 1/2 part hydrated lime and 2 1/4 to 3 parts sand.
- 3. No work shall be done subject to freezing conditions or using frozen materials. No antifreeze is permitted. Protect work subject to freezing.
- 4. Form Continuous 2 x 4 key in top of footing fill first block course and top 3 courses with cement.

#### **Electrical:**

- 1. Electrical work, wiring and equipment shall conform to the National Electrical Code (NFPA) latest edition and all regulating agencies.
- 2. Electrical contractor to provide all required wiring, additional circuit breakers, conv. outlets and switches per code and as required by law.
- 3. Light fixtures and bulbs to be supplied and installed by electrician. Fixtures shall be selected and approved by the owner, with the exception of recessed down lights to be selected by the architect or contractor, if applicable.

#### Mechanical:

1. New gas line and hook up to be executed by licensed plumber, to comply with all applicable building codes.









1 1/2

Powered by DynaSCAPE®







![](_page_12_Picture_4.jpeg)

OURS PRIOR TO THE START OF HIS OPE . THE LATEST INDUSTRIAL CODE RULE 7	RATIONS AND SHALL CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING 53 REGULATIONS. JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.
MANAGEMENT FACILITIES	MAINTENANCE PROGRAM
DATES FOR INSPECTION	TIMING, ACTIVITY, AND LOCATION
ALL	ALL STORMWATER FACILITIES SHALL BE INSPECTED IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION, AND THEN MONTHLY FOR THE FIRST THREE (3) MONTHS FOLLOWING THE COMPLETION OF THE PROJECT. WITHIN THE FIRST THREE (3) MONTHS, INSPECTIONS SHALL IMMEDIATELY BE PERFORMED FOLLOWING A LARGE STORM EVENT (I.E. PRODUCING 1/2" (ONE-HALF INCH) OF RAIN OR GREATER. THEREAFTER, THESE FACILITIES SHALL BE INSPECTED AS DESCRIBED AS FOLLOWS. UPON INSPECTION, FACILITIES SHALL BE IMMEDIATELY MAINTAINED AND/OR CLEANED AS MAY BE REQUIRED. ANY SITE AREAS EXHIBITING SOIL EROSION OF ANY KIND SHALL BE IMMEDIATELY RESTORED AND STABILIZED WITH VEGETATION, MULCH OR STONE, DEPENDING ON THE AREA TO BE STABILIZED. UPON EACH INSPECTION, ALL VISIBLE DEBRIS INCLUDING, BUT NOT LIMITED TO, TWIGS, LEAF AND FOREST LITTER SHALL BE REMOVED FROM THE BASIN, OVERFLOW DISCHARGE POINTS AND FRAMES AND GRATES OF DRAINAGE STRUCTURES.
UPON COMPLETION OF CONSTRUCTION: -ONCE A MONTH FOR THE FIRST THREE (3) MONTHS AFTER FIRST THREE (3) MONTHS: -EVERY FOUR (4) MONTHS	ALL CATCH BASIN/DRAIN INLETS AND DRAIN MANHOLES WITH SUMPS HAVE BEEN DESIGNED TO TRAP SEDIMENT PRIOR TO ITS TRANSPORT TO THE INFILTRATION PRACTICE AND, ULTIMATELY, DOWNSTREAM. THESE SUMPS WILL REQUIRE PERIODIC INSPECTION AND MAINTENANCE TO ENSURE THAT ADEQUATE DEPTH IS MAINTAINED WITHIN THE SUMPS. THE OWNER, OR THEIR DULY AUTHORIZED REPRESENTATIVE, SHALL TAKE MEASUREMENTS OF THE SUMP DEPTH. IF SEDIMENT HAS ACCUMULATED TO 1/2 (ONE-HALF) THE DEPTH OF THE SUMP, ALL SEDIMENT SHALL BE REMOVED FROM THE SUMP. SEDIMENTS CAN BE REMOVED WITH HAND-LABOR OR WITH A VACUUM TRUCK.
THEREAFTER	THE USE OF ROAD SALT SHALL BE MINIMIZED FOR MAINTENANCE OF ROADWAY AND DRIVEWAY AREAS.
UPON COMPLETION OF CONSTRUCTION: -IMMEDIATELY AFTER CONSTRUCTION -EVERY SIX (6) MONTHS THEREAFTER (SPRING & FALL) BY INDIVIDUAL HOMEOWNERS)	ALL EXFILTRATION SYSTEMS SHALL BE INSPECTED EVERY SIX (6) MONTHS (SPRING AND FALL) FOR EXCESS SEDIMENT ACCUMULATION AND CLOGGING OF INLET AND OUTLET PIPING. DURING DRY WEATHER CONDITIONS, WHEN SEDIMENT HAS ACCUMULATED TO AN AVERAGE DEPTH EXCEEDING 3" (THREE INCHES), THE GALLERY SHALL BE WATER JETTED CLEAN, AND ALL ACCUMULATED SEDIMENTS SHALL BE VACUUMED OUT OR REMOVED MANUALLY. A STADIA ROD MAY BE INSERTED TO DETERMINE THE DEPTH OF THE SEDIMENT. MAINTENANCE OF THE INFILTRATION SYSTEMS LOCATED ON EACH INDIVIDUAL LOT SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL PROPERTY OWNER.

![](_page_13_Figure_0.jpeg)

![](_page_13_Figure_2.jpeg)

![](_page_13_Figure_7.jpeg)

# STORMWATER MANAGEMENT PLAN & DRAINAGE ANALYSIS

# 9 Hobby Farm Drive Town of North Castle - New York

October 28, 2021

![](_page_14_Picture_3.jpeg)

Hudson Engineering & Consulting, P.C.

45 Knollwood Road – Suite 201 Elmsford, NY 10523 (914) 909-0420

#### STORMWATER MANAGEMENT PLAN & DRAINAGE ANALYSIS 9 Hobby Farm Drive Town of North Castle - New York

#### INTRODUCTION

This Stormwater Management Plan presents the proposed Best Management Practices (BMPs) to control erosion and sedimentation and manage stormwater during and upon construction of proposed pool and patio at 9 Hobby Farm Drive in the Town of North Castle, Westchester County, New York.

This Plan consists of this narrative and a plan set entitled: "Proposed Pool and Patio, 9 Hobby Farm Drive, Town of North Castle, Westchester County - New York", all as prepared by Hudson Engineering and Consulting, P.C., Elmsford, New York, dated, October 28, 2021. The design is in accordance with the Town of North Castle requirements. Since the project disturbance is less than one acre the New York State Department of Environmental Conservation [NYSDEC] stormwater regulations are not applicable.

#### **METHODOLOGY**

The stormwater analysis was developed utilizing the Soil Conservation Service (SCS) TR-20, 24-hour Type III storm events (HydroCad®) to assist with the design of the mitigating practices. The "Complex Number" (CN) value determination is based on soil type, vegetation and land use. The design is in accordance with the Town of North Castle's stormwater regulations. The "Time of Concentration" (T<sub>c</sub>) was determined as a direct entry of one-minute. The CN and T<sub>c</sub> data are input into the computer model. The project site was modeled for the 25-year Type III – 24-hour extreme storm event.

#### PRE-DESIGN INVESTIGATIVE ANALYSIS

A pre-design investigative analysis was performed including percolation and deep holes tests in the location shown on the plans. A percolation test was performed in the vicinity of the potential stormwater mitigation practice [TP-1] until constant rates were achieved, their results as follows:

• TP-1: A percolation rate of 0.67-minutes per inch (89.55-inches per hour) was observed. A rate of 20.0-inches per hour was utilized in the design.

A deep test hole was excavated and labeled TP-1 as shown on the plans.

• TP-1 was excavated to a depth of 112-inches. The test revealed topsoil to a depth of 6-inches, brown silt with fill and rocks to a depth of 24-inches,

grey clay to a depth of 48-inches, and fill to the invert. No groundwater or ledge rock was encountered.

The deep test hole log and percolation test data sheets are attached.

### POST-DEVELOPED CONDITION

The proposed driveway was modeled as one watershed, Watershed 1, containing approximately 1,550 square feet of impervious area. The CN value for this area is 98 and the Tc is a direct entry of 1 minute. The stormwater runoff from this tributary area is conveyed via a comprehensive drainage system to four (4) Cultec® 330XLHD Rechargers set in one foot of gravel at the sides and invert. The system is designed to fully accept (no release) the entire stormwater runoff volume for the 25-year storm event from the watershed and ex-filtrate the runoff into the surrounding soil sub-strata.

#### CONCLUSION

The stormwater management plan proposed meets all the requirements set forth by the Town of North Castle. Design modification requirements that may occur during the approval process will be performed and submitted for review to the Town of North Castle.

![](_page_17_Figure_0.jpeg)

Hydrologic Soil Group-Westchester County, New York

![](_page_18_Figure_1.jpeg)

![](_page_18_Picture_4.jpeg)

# Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrC	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	В	0.0	0.8%
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	С	0.5	23.6%
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	С	0.9	46.3%
RdB	Ridgebury complex, 3 to 8 percent slopes	D	0.2	9.0%
Sm	Sun loam, extremely stony	C/D	0.4	20.3%
Totals for Area of Intere	est		2.0	100.0%

# Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

## **Rating Options**

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tie-break Rule: Higher

# **Extreme Precipitation Tables**

#### Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Smoothing	Yes
State	New York
Location	
Longitude	73.634 degrees West
Latitude	41.146 degrees North
Elevation	0 feet
Date/Time	Wed, 27 Oct 2021 15:16:32 -0400

#### **Extreme Precipitation Estimates**

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.34	0.52	0.64	0.84	1.05	1.31	1yr	0.90	1.22	1.50	1.86	2.29	2.82	3.19	1yr	2.50	3.06	3.55	4.26	4.91	1yr
2yr	0.40	0.62	0.77	1.01	1.28	1.60	2yr	1.10	1.49	1.84	2.27	2.79	3.43	3.86	2yr	3.03	3.71	4.26	5.04	5.71	2yr
5yr	0.47	0.73	0.92	1.23	1.58	1.99	5yr	1.36	1.83	2.30	2.85	3.51	4.30	4.88	5yr	3.81	4.69	5.42	6.32	7.09	5yr
10yr	0.53	0.83	1.05	1.42	1.85	2.35	10yr	1.59	2.15	2.73	3.39	4.17	5.10	5.82	10yr	4.52	5.60	6.51	7.50	8.35	10yr
25yr	0.61	0.97	1.24	1.72	2.28	2.94	25yr	1.97	2.66	3.43	4.27	5.26	6.41	7.37	25yr	5.67	7.08	8.31	9.41	10.37	25yr
50yr	0.69	1.11	1.43	2.00	2.69	3.49	50yr	2.32	3.12	4.07	5.09	6.26	7.62	8.81	50yr	6.74	8.47	9.99	11.17	12.22	50yr
100yr	0.79	1.27	1.64	2.33	3.17	4.14	100yr	2.74	3.67	4.85	6.06	7.45	9.06	10.53	100yr	8.02	10.13	12.02	13.26	14.42	100yr
200yr	0.89	1.46	1.89	2.71	3.74	4.92	200yr	3.23	4.32	5.77	7.23	8.88	10.78	12.60	200yr	9.54	12.11	14.48	15.75	17.00	200yr
500yr	1.07	1.76	2.29	3.33	4.66	6.18	500yr	4.02	5.36	7.26	9.11	11.20	13.58	15.97	500yr	12.02	15.36	18.52	19.79	21.16	500yr

### **Lower Confidence Limits**

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.26	0.40	0.48	0.65	0.80	0.92	1yr	0.69	0.90	1.28	1.61	2.00	2.54	2.77	1yr	2.25	2.66	3.22	3.85	4.28	1yr
2yr	0.39	0.60	0.74	1.00	1.24	1.48	2yr	1.07	1.45	1.69	2.17	2.73	3.33	3.74	2yr	2.95	3.60	4.12	4.88	5.55	2yr
5yr	0.43	0.66	0.82	1.13	1.43	1.74	5yr	1.24	1.70	1.97	2.56	3.21	3.97	4.51	5yr	3.51	4.33	4.98	5.80	6.56	5yr
10yr	0.46	0.71	0.88	1.24	1.60	1.96	10yr	1.38	1.92	2.22	2.93	3.63	4.54	5.18	10yr	4.02	4.98	5.73	6.58	7.44	10yr
25yr	0.50	0.76	0.95	1.36	1.79	2.27	25yr	1.54	2.22	2.60	3.46	4.29	5.39	6.22	25yr	4.77	5.98	6.91	7.78	8.77	25yr
50yr	0.53	0.80	1.00	1.43	1.93	2.53	50yr	1.67	2.47	2.94	3.95	4.86	6.15	7.15	50yr	5.44	6.88	7.91	8.80	9.94	50yr
100yr	0.56	0.84	1.06	1.53	2.09	2.80	100yr	1.81	2.74	3.33	4.52	5.45	7.01	8.23	100yr	6.21	7.91	9.08	9.96	11.27	100yr
200yr	0.59	0.89	1.13	1.63	2.27	3.12	200yr	1.96	3.05	3.76	5.19	6.20	7.97	9.46	200yr	7.05	9.10	10.42	11.24	12.77	200yr
500yr	0.63	0.94	1.21	1.75	2.50	3.59	500yr	2.15	3.51	4.45	6.27	7.34	9.44	11.37	500yr	8.36	10.93	12.47	13.17	15.08	500yr

#### **Upper Confidence Limits**

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.37	0.57	0.70	0.94	1.16	1.38	1yr	1.00	1.35	1.59	2.07	2.60	3.05	3.45	1yr	2.70	3.31	3.82	4.61	5.30	1yr
2yr	0.43	0.66	0.81	1.10	1.36	1.58	2yr	1.17	1.55	1.80	2.31	2.89	3.55	4.00	2yr	3.14	3.85	4.43	5.25	5.92	2yr
5yr	0.51	0.79	0.98	1.35	1.72	2.01	5yr	1.48	1.97	2.32	2.97	3.70	4.63	5.25	5yr	4.10	5.05	5.87	6.85	7.65	5yr
10yr	0.61	0.93	1.16	1.61	2.09	2.42	10yr	1.80	2.37	2.83	3.59	4.50	5.69	6.46	10yr	5.03	6.21	7.29	8.41	9.31	10yr
25yr	0.77	1.17	1.46	2.08	2.74	3.13	25yr	2.36	3.06	3.67	4.62	5.80	7.45	8.53	25yr	6.60	8.20	9.74	11.03	12.06	25yr
50yr	0.92	1.39	1.74	2.50	3.36	3.80	50yr	2.90	3.72	4.48	5.59	7.04	9.16	10.52	50yr	8.11	10.11	12.15	13.57	14.69	50yr
100yr	1.10	1.67	2.09	3.02	4.14	4.63	100yr	3.58	4.53	5.45	6.78	8.81	11.28	12.99	100yr	9.98	12.49	15.15	16.71	17.90	100yr
200yr	1.33	2.00	2.53	3.66	5.11	5.63	200yr	4.41	5.50	6.64	8.20	10.75	13.89	16.04	200yr	12.30	15.42	18.90	20.58	21.82	200yr
500yr	1.72	2.56	3.29	4.78	6.79	7.29	500yr	5.86	7.13	8.62	10.55	14.01	18.30	21.21	500yr	16.19	20.40	25.37	27.16	28.34	500yr

![](_page_21_Picture_12.jpeg)

![](_page_22_Figure_0.jpeg)

#### Summary for Subcatchment 1: Watershed 1

Runoff = 0.27 cfs @ 12.01 hrs, Volume= 0.018 af, Depth= 6.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 25-Year Rainfall=6.41"

A	rea (sf)	CN D	escription								
*	1,550	98 P	ool and Pa	tio							
	1,550	1	00.00% Im	pervious A	rea						
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description						
1.0					Direct Entr	y, Direct Ent	ry				
	Summary for Pond 1-1: 4 Cultec 330XLHD Rechargers										
Inflow Ar Inflow Outflow Discarde	rea = = = ed =	0.036 a 0.27 cfs 0.09 cfs 0.09 cfs	ac,100.00% s @ 12.0° s @ 11.84 s @ 11.84	6 Imperviou hrs, Volu hrs, Volu hrs, Volu	us, Inflow De me= ime= ime=	epth = 6.17" 0.018 af 0.018 af, Att 0.018 af	for 25-Year event ten= 66%, Lag= 0.0 min				
Routing Peak Ele	by Stor-Ind ev= 1.15' @	d methoo 12.20	d, Time Sp hrs Surf. <i>F</i>	an= 0.00-6 \rea= 195 s	0.00 hrs, dt= sf Storage=	0.01 hrs 81 cf					
Plug-Flov Center-o	w detentio f-Mass de	n time= t. time=	3.4 min ca 3.4 min ( 7	culated for 42.9 - 739.	<sup>·</sup> 0.018 af (10 .5 )	0% of inflow)					
Volume	Inve	rt Av	vail.Storag	e Storage	e Description						
#1A	0.0	0'	138 0	f <b>11.17'V</b> 692 cf (	<b>V x 17.50'L x</b> Overall - 231	3.54'H Field	<b>I A</b> d = 461 cf  x 30.0% Voids				
#2A	1.0	0'	231 c	f <b>Cultec</b> Effectiv Overall Row Le	<b>R-330XLHD</b> ve Size= 47.8 Size= 52.0"\ ength Adjustn	x 4 Inside # "W x 30.0"H W x 30.5"H x nent= +1.50' x	1 => 7.45 sf x 7.00'L = 52.2 8.50'L with 1.50' Overlap x 7.45 sf x 2 rows	cf			

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	20.000 in/hr Exfiltration over Surface area

369 cf Total Available Storage

**Discarded OutFlow** Max=0.09 cfs @ 11.84 hrs HW=0.04' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.09 cfs)

![](_page_24_Picture_0.jpeg)

SITE ADDRESS: 9 Hobby Fa	rm Drive								
TOWN/VILLAGE: North Cas	stle								
DATE: 09/22/2021 TIME	E: 10:18am								
WEATHER: M. Cloudy	TEMP. 72° F								
WITNESSED BY: Nicholas Shirriah									

#### DEEP TEST HOLE DATA SHEET – STORMWATER MANAGEMENT SYSTEM

DEPTH	HOLE NO. <u>1</u>	HOLE NO. 2	HOLE NO. 3	HOLE NO. 4
G.L.	0 – 6" Topsoil			
6"				
12"			_	
18"				
24"	6-24"			
30"	Brown silt w/ fill,			
36"	Very rocky			
42"				
48"	24 - 48"			
54"	Grey Clay			
60"				
66"	48 - 112"			
72"	Fill			
78"				
84"	No Ledge			
90"	No GW			
96"				
102"				
108"				_

• Indicate level at which Ground Water (GW), Mottling and/or Ledge Rock is encountered.

• Indicate level for which water level rises after being encountered.

EXCAVATION PERFORMED BY: PRECISION FIELD TESTING

![](_page_25_Picture_0.jpeg)

\_\_\_\_\_

SITE ADDRESS:	9 Hobby Farm	n Drive		
TOWN/VILLAGE:	North Castle	e		
DATE: <u>09/22/202</u>	TIME:	10:57am		
WEATHER: M. Cloudy TEMP.				
WITNESSED BY: Nicholas Shirriah				

#### PERCOLATION TEST HOLE DATA SHEET – STORMWATER MANAGEMENT SYSTEM

Owner

HOLE #	CLOCK TIME			PERCOLATION					
				Elanca	Depth to Water From Ground Surfac	o Water and Surface	Weten Level in	Soil Rate	
Hole Number	Run No.	Start	Stop	Time (Min.)	Start Inches	Stop Inches	Inches Drop in inches	Min. per inch	Inches per Hour
# 1	1	11:01	11:03	2	39	42	3	0.67	89.55
///_ <u></u>	2	11:04	11:06	2	39	42	3	0.67	89.55
<u>4</u> ӯ	3	11:07	11:09	2	39	42	3	0.67	89.55
	4								
	5								
# 2	1								
π_ <u>∠</u>	2								
<u>4</u> ӯ	3								
	4								
	5								
# 3	1								
# <u>_3</u>	2								
<u>4</u> ӯ	3								
	4								
	5								

Notes:

1) Tests to be repeated at the same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

2) Depth measurements to be made from top of hole

Wetlands Survey *The Cohen Site* 9 Hobby Farm Drive

North Castle, NY

Approx. 1.976-Acres Area

Prepared for **Raymond and Karen Cohen** 

Aug. 3, 2021

 $\label{eq:21} 21 cohen. 9 hobby farm driven or the astlenywheep$ 

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Ridgefield, CT 06877

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#### Introduction

A wetland investigation was completed on property identified as 9 Hobby Farm Drive, Town of North Castle on Aug. 3, 2021 by Paul J. Jaehnig, Certified Professional Geologist, Soil Scientist, and Wetland Scientist. The work consisted of the re-delineation of the wetland boundary. The work was conducted in accordance with the Town of North Castle Freshwater Wetlands Law. The work was carried-out at the request of the clients and property owners, Raymond and Karen Cohen.

#### Site Description

The site is an approx. 1.976-acres area property situated on the southeast side of Hobby Farm Drive. The site is located in an established relatively low-density residential neighborhood. Woodland buffers commonly separate the residences from each other.

The site consists of: a residence; surrounding lawn; woodland borders; and small area of wetlands (see *photos 1- 10* in Appendix I and enclosed *Wetland and Soils Map*). Slopes across the site vary from nearly level and gently sloping to steep sloping. The land slopes down on the western and eastern sides to a small, relatively broad valley, which has its long axis in a north to south orientation across the central-western portion and southwest corner of the site. Most of the site is very gently sloped. Nearly level land is on the central, as well as, the northeast, southeast, and central-western portions of the site. Steep slopes are confined along a 30 ft. wide band going from the southwest corner of the site, across the western-central portion of the site, and ending near the northeast portion of the site. Most of the site has been previously disturbed by man, except for the southern and northern edges of the site, as well as, along the band of steep sloping ground just described. This man-made topography, formed by past cut, fill, and grading of soil, was carried-out as part of the residential development of the site.

The paved driveway comes off the southeast side of Hobby Farm Drive and into the northeast corner of the site (see *photo 1* in Appendix I). The driveway climbs up a slope as it curves southeast and then south to a level area next to the central-eastern property line. The driveway splits into two branches: one branch continues southerly for a short distance and ends at the garage on the east side of the residence; the other branch goes southwest to the form a driveway loop in front of the residence (see *photo 2* in Appendix I). The residence is located on the southeast-central portion of the site (see *photos 2 & 3* in Appendix I).

Lawn area covers the southern, central, northern, and some of the western portions of the site (see *photos 2 to 4* in Appendix I). The lawn area is quite open.

A meadow area covers some of the central-western portion of the site (see *photos 5 to 7* in Appendix I). The lush vegetative cover consists of: mugwort, ragweed, goldenrod, Japanese stilt grass, pokeweed, and few jewelweed plants.

Narrow woodland borders are found along the southern edge of the site, as well as, the northwest corner of the site and some of the southwest central-western portions of the site (see *photo 8* in Appendix I). Woodlands have a tree canopy of sugar maple, black cherry,

and hickory. Some winged euonymus provides the shrub understory; garlic mustard, Virginia creeper, and some raspberry grow on the woodland floor. Twig and leaf litter cover the woodland floor. Dumped brush is noted on the woodland floor on the northwest portion of the site.

A drainage easement and access easement traverses north to south across the western portion of the site (see easements on the enclosed *Wetland and Soils Map*). A two catch basins plot a linear drainage pipe route along the path of the drainage easement.

#### <u>Wetlands</u>

The wetlands boundary was delineated or flagged with consecutively marked ribbon (WL-A-1, A-2, A-3, etc.) in the field and plotted on the enclosed *Wetland and Soils Map*. Wetlands on the site cover the very southwest edge of the site. Wetlands consist of: a portion of a small pond with fringe wetlands (see *photo 9* in Appendix I).

The northernmost end of a small pond is on the southwest corner of the site. The pond extends to the south for approx. 0.2 acre. The pond section on the site is very narrow, approx. 20 ft. across in an east to west direction. The pond does widen to the south and away from the site. The depth of the pond is unknown, but believed to be shallow. The portion of the pond on and adjacent to the site is probably less than 1 ft. deep. At the northern end of the pond is a steel cage protecting the drainage pipe inlet from being clogged with wood and leaf debris (see *photo 10* in Appendix I). Side slopes around this section of the pond are steep, generally 1 to 2 ft. height. The pond is in a somewhat "draw-down" period, being there has been little rainfall during the time of the study. There is no drainage flow into the pipe at this time. The pond level is anticipated to rise during wetter times of the year sufficient enough to have drainage discharged north via the pipe.

Small fringe wetlands occur on the east side of the pond where adjacent land relief is slight relative to the pond edge. Wetlands are narrow and discontinuous areas of swampland, being less than 10 ft. wide near the site. The wetlands are poorly drained and lack any micro-topography. The vegetative cover consists of: a very shady canopy of small red maples with shallow and exposed roots; few winged euonymus shrubs; herbaceous growth of Japanese stilt grass, skunk cabbage, and jewelweed. The soils are soggy. Locally rock debris has been introduced into the edges of the wetland from adjacent uplands.

#### Historical Perspective of Pond and Wetlands

The occurrence of the pipe and cage, along with the shape and character of the abutting land, and examination of neighboring properties to the south and adjacent to the pond, suggests that the pond is in part man-made. The pond likely was shaped and dredged out of a natural wetland area in order to form a storm-water detention pond for the neighborhood.

Review of Westchester County Dept. of Planning historical aerial photos of the site show in 1976 what appears to be a golf course occupying the site and neighborhood (see *Historical Aerial Photo* in Appendix II. The photo shows the site outline with no residence, a pond and drainage course going north and ultimately connecting to other small ponds. The site pond and other ponds to the north as most likely "water hazards" along a fairway. A small foot bridge appears to cross the drainage course. The site residence location appears to be a golf course green. As part of the development of the site it appears that drainage course going north from the pond was piped and filled over in order to execute the development plan of the neighborhood as is seen today.

#### Wetland Buffers

The pond and adjacent small wetlands are buffered by: nearly level residential lands to the west; level lightly wooded land to the north; moderate to steep sloped woodlands to the east.

#### Wetland Functions

The pond functions as a storm-water detention area for the neighborhood. The pond also supports wildlife habitat area for bull frogs and snapping turtles, as well as, waterfowl from time to time. The adjacent wetlands function primarily as shallow groundwater recharge area supporting the hydrology of the pond. At wetter periods of the year the wetlands provide some water storage function as the level of the pond rises and inundates the adjacent wetlands. The wetlands provide some minor habitat area to be utilized by the wildlife frogs mentioned previously.

#### NY State Dept. of Environmental Conservation (NYSDEC) Wetland Jurisdiction

Wetlands on the site are not NYSDEC jurisdiction wetlands according to a review of the NYSDEC Agency published maps (see *NYSDEC Wetland Map* in Appendix III).

#### <u>Regional Drainage</u>

Drainage on the site is directed north, ultimately making its way to Piping Brook, approx. 0.3 mile north of the site (see *Regional Drainage Map* in Appendix IV). Piping Brook drains southerly into Connecticut and eventually to Long Island Sound.

#### <u>Soils</u>

Soils borings were taken across the site using a Dutch auger and spade. Each soil boring was logged or described noting soil horizon depth, color, texture, structure, and presence of any redoximorphic (wetland or hydric) soil features such as mottling. The water table, if encountered, was measured. The detailed descriptions of each soil boring, previously taken, are provided in Appendix V. The location of each soil boring is labeled SS-1, SS-2, etc. and plotted on the enclosed *Wetland and Soils Map*.

Soils encountered on the site include: non-wetland, moderately well-drained Paxton fine sandy loam (PnB), slopes 3 to 8 %, in the undisturbed, gently sloped woodland borders and lawn area on the northern and southern edges of the site; non-wetland, well drained Paxton fine sandy loam (PnC), slopes 8 to 15 %, in the undisturbed, moderate to steep sloped woodland and lawn areas; non-wetland, well-drained Udorthents soil (Ud1), slopes 0 to 10 %, to describe soils where the natural soil profile has been mixed or disturbed due to the past man-made cut, fill, and grading of soil, carried-out along the

driveway, around the residence, yard areas, and some woodland areas, in the course of developing the site; non-wetland, moderately well-drained Udorthents (Ud2), slopes 0 to 3 %, to describe soil where the natural soil profile has been mixed or disturbed due to past fill and grading of soil, carried-out in the vicinity of a catch basin on the northern end of the site; non-wetland, moderately well drained Woodbridge loam (WdA), slopes 0 to 3 %, in the undisturbed, nearly level lawn area on the south edge of the site; and wetland, very poorly-drained Sun silt loam (Sh), slopes 0 to 2 %, in the undisturbed, small fringe wetlands adjacent to the pond. The distribution of each soil-type found on the site is depicted on the enclosed *Wetland and Soils Map*.

# Appendix I

Selected Site Photographs

Photo 1 Looking south and upslope along driveway and entrance.

Photo 2 Looking southerly toward residence. Note red car parked in driveway loop in front of residence; driveway branch leading to garage is in the left edge of photo. Aug. 2021– The Cohen Site, 9 Hobby Farm Drive, North Castle, NY Photo 3 Looking west across back yard and toward residence.

Photo 4 Looking south across level lawn in broad valley on western portion of site. Note neighbor's residence in background of photo.

Aug. 2021- The Cohen Site, 9 Hobby Farm Drive, North Castle, NY

Photo 5 Looking west and downslope across side yard. Note meadow area in center background of photo.

Photo 7 Looking east toward residence. Note meadow in center foreground of photo.

Photo 9 Looking southwest across pond at the very southwest corner of the site.

# Appendix II

Historical Aerial Photo 1976

### Appendix III

New York State Dept. of Environmental Conservation Wetlands Map

# Appendix IV

Regional Drainage Map

# Appendix V

Soil Boring Logs

# Key To Boring Logs

<b>SS-</b> 1	Soil Boring	
0-2"	Depth in inches from the ground surface	
General Color	Munsell Color Notation Hue Value Chroma	
Very dark gray	10YR 3 / 1	

<u>SS-1</u>

SITE: NEARLY LEVEL WOODLANDS; LOCALLY UNDULATING GROUND; WINGED EUONYMUS SHRUB UNDERSTORY; GARLIC MUSTARD HERBACEOUS GROWTH; POISON IVY AND VIRGINIA CREEPER DOT GROUND; TWIG AND LEAF LITTER COVER WOODLAND FLOOR.

- 0-2" DARK BROWN 10YR 3/3 LOAM.
- 2-28" MIXED BROWNISH YELLOW 10YR 6/6 AND BROWN 10YR 4/3 LOAM WITH 10 % GRAVEL.

WATER TABLE NOT ENCOUNTERED.

#### <u>SS-2</u>

SITE: NEARLY LEVEL LAND; SIMILAR TO SS-1; SPARSE BLACK CHERRY TREE CANOPY; FEW MULTIFLORA ROSE SHRUBS; FEW GARLIC MUSTARD PLANTS; BITTERSWEET VINES COVER SOME TREES; VIRGINIA CREEPER AND POISON IVY DOTS GROUND; TWIG AND LEAF LITTER COVERS WOODLAND FLOOR.

- 0-2" DARK BROWN 10YR 3/3 LOAM.
- 2-28" MIXED LIGHT YELLOW BROWN 2.5Y 6/4 FINE SANDY LOAM AND BROWN 10YR 4/3 LOAM WITH 10 % GRAVEL.

WATER TABLE NOT ENCOUNTERED.

<u>SS-3</u>

SITE: LEVEL EDGE OF MEADOW; VEGETATIVE COVER OF MUGWORT, GOLDENROD, RAGWEED, AND FEW JEWELWEED.

- 0-2" VERY DARK GRAY BROWN 10YR 3/2 LOAM.
- 2-28" MIXED DARK GRAY BROWN 10YR 5/2 LOAM AND BROWN 10YR 5/3 LOAM WITH INCLUSIONS OF BROWNISH YELLOW 10YR 6/6 FINE SANDY LOAM AND 10% GRAVEL.

#### WATER TABLE NOT ENCOUNTERED.

<u>SS-4</u>

SITE: LEVEL MEADOW; VEGETATIVE COVER OF MUGWORT, RAGWEED, POKEWEED AND JEWELWEED.

- 0-6" MIXED DARK GRAY BROWN 10YR 4/2 LOAM.
- 6-12" MIXED BROWNISH YELLOW 10YR 6/6 LOAM WITH 10% GRAVEL.
- 12-28" MIXED DARK GRAY BROWN 10YR 4/2 LOAM WITH INCLUSIONS OF BROWNISH YELLOW 10YR 6/6 FINE SANDY LOAM AND 5% GRAVEL.

WATER TABLE NOT ENCOUNTERED.

<u>SS-5</u>

SITE: LEVEL EDGE OF MEADOW; VEGETATIVE COVER OF MUGWORT, GOLDENROD, AND JEWELWEED; WILD GRAPE DRAPES SOME TALLER PLANTS.

- 0-3" VERY DARK GRAY 10YR 3/1 LOAM.
- 3-28" MIXED LIGHT YELLOW BROWN 2.5Y 6/4 LOAM WITH 10% GRAVEL.

WATER TABLE NOT ENCOUNTERED.

<u>SS-6</u>

SITE: LEVEL WETLANDS ADJACENT TO POND; VERY POORLY DRAINED; NO MICRO-TOPOGRAPHY; WETLANDS SHADED BY RED MAPLES WITH SHALLOW AND EXPOSED ROOTS; FEW WINGED EUONYMUS SHRUBS; HERBACEOUS GROWTH OF JAPANES STILT GRASS, SKUNK CABBAGE, VIRGINIA CREEPER AND POISON IVY DOT WETLAND FLOOR; SOME MATTED LEAF LITTER COVERS IUN-VEGETATED GROUND.

- 0-12" DARK GRAY 10YR 4/1 SILT LOAM.
- 12-28" GRAY 10YR 6/1 FINE SANDY LOAM

WATER TABLE AT 1".

#### <u>SS-7</u>

SITE: LEVEL LAWN.

0-28" MIXED BROWN 10YR 4/3 LOAM WITH 20% GRAVEL.

WATER TABLE NOT ENCOUNTERED.

<u>SS-8</u>

SITE: LEVEL AND CONCAVE WOODLANDS; ADJACENT TO CATCH BASIN. WOODS SHADED BY RED AND SUGAR MAPLE; OPEN UNDERSTORY; COMMON GARLIC MUSTARD AND FEW RASPBERRY; ADJACENT PILE OF DUMPED BRUSH; TWIG AND LEAF LITTER COVERS WOODLAND FLOOR

0-20" MIXED VERY DARK GRAY BROWN 10YR 3/2 LOAM.

WATER TABLE NOT ENCOUNTERED.

<u>SS-9</u>

SITE: VERY GENTLY SLOPED WOODLANDS; SHADED BY SUGAR MAPLE, HICKORY TREES; COMMON WINGED EUONYMUS SHRUB UNDERSTORY; TWIG AND LEAF LITTER COVERS WOODLAND FLOOR.

- 0-2" VERY DARK GRAY BROWN 10YR 3/2 LOAM.
- 2-28" MIXED LIGHT YELLOW BROWN 2.5Y 6/4 WITH DARK BROWN 10YR 3/3 LOAM AND 5 % GRAVEL.

WATER TABLE NOT ENCOUNTERED.

<u>SS-10</u>

SITE: NEARLY LEVEL WOODLANDS; SIMILAR TO SS-8.

- 0-24" MIXED GRAY BROWN 10YR 5/2 LOAM WITH INCLUSIONS OF LIGHT YELLOW BROWN 10YR 6/4 LOAM
- 24"- REFUSAL; LARGE BOULDER.

WATER TABLE NOT ENCOUNTERED.

#### Wetlands Survey *The Cohen Site* 9 Hobby Farm Drive

North Castle, NY

Approx. 1.976-Acres Area

Prepared for Raymond and Karen Cohen

Aug. 3, 2021

![](_page_44_Picture_7.jpeg)

21cohen.9hobbyfarmdrivenorthcastlenywlrep

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tel. 203 438 9993

![](_page_45_Picture_0.jpeg)

# HISTORICAL AERIAL PHOTO 1976

N.T.S.

![](_page_46_Picture_0.jpeg)

# NYSDEC WETLAND MAP

N.T.S.

![](_page_47_Picture_0.jpeg)

Photo 1 Looking south and upslope along driveway and entrance.

![](_page_47_Picture_2.jpeg)

Photo 2 Looking southerly toward residence. Note red car parked in driveway loop in front of residence; driveway branch leading to garage is in the left edge of photo. Aug. 2021– The Cohen Site, 9 Hobby Farm Drive, North Castle, NY

![](_page_48_Picture_0.jpeg)

Photo 3 Looking west across back yard and toward residence.

![](_page_48_Picture_2.jpeg)

Photo 4 Looking south across level lawn in broad valley on western portion of site. Note neighbor's residence in background of photo.

Aug. 2021- The Cohen Site, 9 Hobby Farm Drive, North Castle, NY

![](_page_49_Picture_0.jpeg)

Photo 5 Looking west and downslope across side yard. Note meadow area in center background of photo.

![](_page_49_Picture_2.jpeg)

Photo 6 Looking south to southeast across meadow in west to southwest portion of the site. Aug. 2021- The Cohen Site, 9 Hobby Farm Drive, North Castle, NY

![](_page_50_Picture_0.jpeg)

Photo 7 Looking east toward residence. Note meadow in center foreground of photo.

![](_page_50_Picture_2.jpeg)

Photo 8 Looking southeast across lightly wooded land in the west-central portion of the site. Aug. 2021- The Cohen Site, 9 Hobby Farm Drive, North Castle, NY

![](_page_51_Picture_0.jpeg)

Photo 9 Looking southwest across pond at the very southwest corner of the site.

![](_page_51_Picture_2.jpeg)

Photo 10 Looking toward drainage pipe with cage exposed at northern end of pond. Aug. 2021- The Cohen Site, 9 Hobby Farm Drive, North Castle, NY

![](_page_52_Figure_0.jpeg)

# REGIONAL DRAINAGE MAP

N.T.S.

Map Scale: I inch = 60 ft.

Paul J. Jachnig- Wetlands and Soils Consulting P.O. Box 1071 Ridgefield, CT 06877 Prepared By

Aug. 3, 2021

Raymond and Karen Cohen Prepared for

1.976 Acres Total Area

9 Hobby Farm Drive North Castle, NY

Wetland & Soils Map The Cohen Site

Soils Boundary

PMC /

- PROPERTY LINE

TIDIN

very poorly drained, slopes 0 to 2 % Sun silt loam

Sh

moderately well drained, slopes o to 3 % woodbridge loam WdA

moderately well drained, slopes varied

udorthents soils WETLAND SOILS ud2

DRIVEWAY ENTRANCE · BRICK & MASONRY WALL & COLUMN DRIVE PMB FARM Tph PMB EDGE OF WOODLANDS HOBE RAINAGE EASEMENT. WOODLAND LON TON SS EASEMEN SS-· PMC PAVED DRIVEWAY . 1 · PMB BASIN AWA SS-

Paxton fine sandy loam well drained, slopes 8 to 15 %

PMC

well drained, slopes varied

udorthents soils

TPN

Paxton fine sandy loam well drained, slopes 3 to 8 %

PMB

NON-WETLAND SOILS

SOILS INFORMATION

FLAGGED WETLAND BOUNDARY

WL-A-2

T-Y-JV

WL-A-3

SOIL BORING LOCATION

6 SS-1

KEY TO MAP

ELEVATION CONTOUR IN FEET

- 470 -

BY PAULJ. JAEHNIG - CERTIFIED PROFESSIONAL GEOLOGIST, SOIL SCIENTIST, AND WETLAND SCIENTIST IN ACCORDANCE WETLANDS BOUNDARIES, AS DEPICTED ON THIS MAP, HAVE COMPLETED AUG. 3, 2021

DRIVEWAY, AND CATCH BASINS AND DRAINAGE PIPES FROM LOCATION OF PROPERTY LINE, EASEMENTS, RESIDENCE,

ENTRANCE PLOTTED ONTO MAP DURING WETLAND INVESTIGATION.

- 4. LOCATION OF VEGETATIVE COVERS AND DRIVEWAY
- TOPOGRAPHY FROM WESTCHESTER COUNTY DEPT. OF PLANNING PUBLISHED MAPS. m
- BUNNEY ASSOCIATES LAND SURVEYORS. N
- WITH THE TOWN OF NORTH CASTLE WETLANDS LAWS. NOT BEEN SURVEY-LOCATED. WETLANDS INVESTIGATION

MAP NOTES:

1.

![](_page_53_Picture_39.jpeg)