



GeoInsight®

Environmental Strategy & Engineering
Practical in Nature

September 30, 2008

GeoInsight Project 2810-001

USEPA, Region 1
NCCW GP Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

RE: Notice of Intent for Non-Contact Cooling Water Discharge
Northern Elastomeric, Inc.
61 Pine Road
Brentwood, New Hampshire
NPDES General Permit # NHG250503

Dear Compliance Coordinator:

At the request of Northern Elastomeric, Inc. (NEI), GeoInsight, Inc. (GeoInsight) is submitting this Notice of Intent (NOI) to discharge non-contact cooling water (NCCW) under General Permit NHG250000. The United States Environmental Protection Agency (USEPA) published a notice issuing the General Permit in the Federal Register on July 31, 2008. NEI was authorized to discharge NCCW under the previous General Permit (the Permit) issued on April 25, 2000. The NOI form is included in Attachment A, and supplementary information is provided in the paragraphs that follow.

GENERAL FACILITY INFORMATION

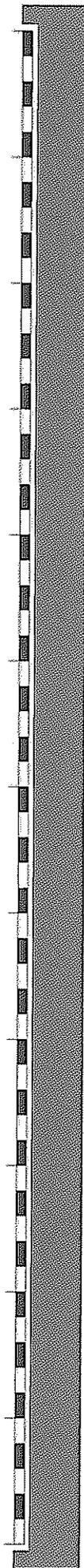
The NEI facility is located at 61 Pine Road in Brentwood, New Hampshire. The facility location is shown on the topographic map included as Figure 1. NEI is an asphalt membrane manufacturing facility consisting of office, production, and warehouse space situated on a 39.56-acre parcel. The property was historically used as a gravel pit and is topographically relatively flat, excepting moderate to steep slopes located along the boundary with Pine Road to the west and along the south boundary of the property.

NCCW is extracted from three on-site ground water wells for use in cooling drums to lower the temperature of the rolled roofing products. The NCCW discharge rate is approximately 100 gallons per minute or 0.144 million gallons per day. The NCCW discharge is continuous

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5 Lan Drive, Suite 200
Westford, MA 01886-3538
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GeoInsight, Inc.
Corporate Ten Center
1781 Highland Ave., Suite 207
Cheshire, CT 06410-1254
Tel (203) 271-8036
Fax (203) 271-8038





24 hours per day, regardless of the production schedule, excepting approximately 10 to 15 days in late December when the facility is closed and NCCW is not used.

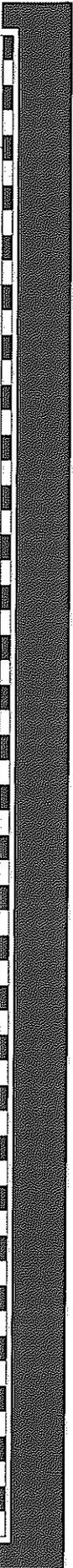
DISCHARGE INFORMATION

The NCCW from the facility's two production lines is discharged to a concrete manhole located on the east side of the facility building in the vicinity of several storage silos (Figure 2). The NCCW flows through a culvert pipe and is discharged to a drainage swale located along the north property boundary. The swale collects runoff from the northern and northeast portion of the property, including storm water from a catch basin located within the facility's paved driveway. The NCCW and periodic storm water runoff discharges via the swale to a wetland area near the northeast property boundary (approximately 900 feet from the outfall). Subsequently, water flows through a wetland area located off the property to the Little River located approximately 1,500 feet east of the property boundary.

GeoInsight contacted the New Hampshire Department of Environmental Services (NHDES) on September 23, 2008 to discuss the applicability of calculating the seven day-ten year low flow (7Q10) of the receiving water body at the property. The NHDES suggested submitting the NOI without this information for its review because the NCCW is not discharged directly to the receiving water body. The location of the property relative to downstream receiving waters is illustrated on Figure 1. Also, a *NH Granit* Geographic Information System database printout (Attachment B) is included to illustrate surface hydrologic features in the vicinity of the facility and the generalized surface flow direction.

NON-CONTACT COOLING WATER SOURCE INFORMATION

Because the facility uses three ground water wells for the source of NCCW, GeoInsight sampled the NCCW effluent on September 22, 2008 in accordance with Part 5.4 of the General Permit. A sample was collected from the concrete manhole prior to discharge to the receiving water body and analyzed for chloride and the total recoverable metals antimony, arsenic, cadmium, chromium (total), chromium VI, copper, iron, mercury, nickel, silver, and zinc. Chloride, arsenic, and iron were reported at concentrations of 22 milligrams per liter (mg/L), 0.009 mg/L, and 0.13 mg/L, respectively. These concentrations are below the NHDES Surface Water Quality Standards for fresh water established in Env-Wq 1700. In addition, GeoInsight measured the pH and temperature of the effluent using field instrumentation during a visit on September 17, 2008. The pH of the NCCW effluent was measured to be 7.1 standard units and the temperature was 61 degrees Fahrenheit. These results are consistent with values measured routinely by the facility in accordance with its former Permit. The laboratory analytical report for the samples collected is included in Attachment C. It is important to note that a sample for hardness was not analyzed because NCCW is discharged to a drainage swale that otherwise receives only storm water; there is not a base flow in the swale aside from the NCCW flow. Therefore, an upstream sample location was not available.





DETERMINATION OF ENDANGERED SPECIES ACT ELIGIBILITY

GeoInsight contacted the New Hampshire Natural Heritage Bureau (NHB) to evaluate Endangered Species Act (ESA) eligibility. The review by the NHB, dated September 16, 2008, is included in Attachment D. The NHB indicated that there were not records in its database of known occurrences of sensitive species at the property. In addition, GeoInsight also checked the list of Federally Listed Endangered and Threatened Species in New Hampshire published by the U.S. Fish and Wildlife Service (Attachment D). This list also did not identify sensitive species located at the property or in the vicinity of the discharge. Therefore, the facility has met ESA eligibility Criterion D, listed in Appendix 2, Section B of the General Permit.

DOCUMENTATION OF NATIONAL REGISTER OF HISTORIC PLACES REQUIREMENTS

The National Register of Historic Places was accessed on the database maintained by the U.S. National Park Service website (Attachment E). A review of the database did not indicate historic or eligible properties that are on the subject property or in proximity to the discharge. Therefore, the facility met the requirement in Appendix 3, Section C (1) of the General Permit.

GeoInsight trusts that the information contained herein satisfies the requirements of the General Permit. Please contact us at (603) 314-0820 if you have questions regarding the contents of this letter or the enclosures.

Sincerely,
GEOINSIGHT, INC.

Luke W. Sanborn, P.E.
Project Engineer

John A. Gilbert, P.E.
Principal

Enclosures

cc: Jeff Andrews, NHDES Water Division, Wastewater Engineering Bureau
Don Mailhoit, NEI

PA\2810-001 NEI Compliance Assistance\NCCW Permit App\2810.NCCW.NOI.doc

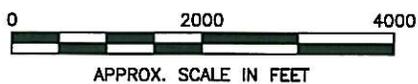


FIGURES





SOURCE:
USGS KINGSTON, NH QUADRANGLE



CLIENT: NORTHERN ELASTOMETRIC, INC.			
PROJECT: NCCW GENERAL PERMIT NOI			
TITLE: SITE LOCUS			
DESIGNED: DLS	DRAWN: STM	CHECKED: CMR	APPROVED: CMR
SCALE: 1" = 2000'	DATE: 12/18/06	FILE NO.: 2810-LOCUS	PROJECT NO.: 2810-001

GeoInsight
Practical in Nature

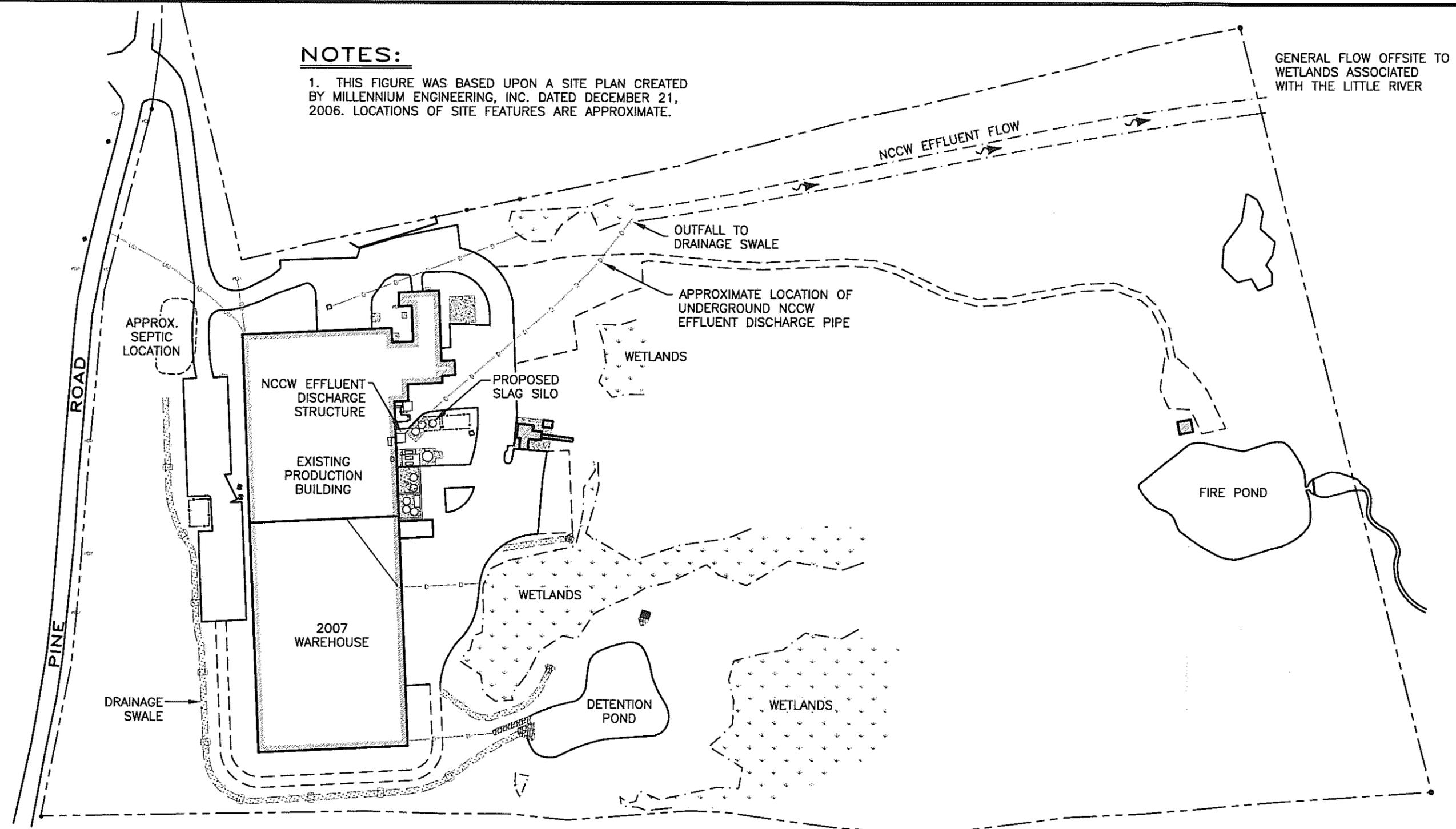
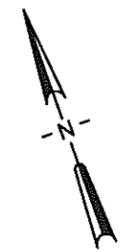
FIGURE NO.: 1

PLOT DATE: 9-29-08
 FILE: I:\2810-001\2810-LOCUS.dwg

NOTES:

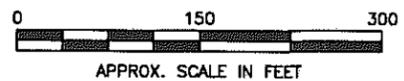
1. THIS FIGURE WAS BASED UPON A SITE PLAN CREATED BY MILLENNIUM ENGINEERING, INC. DATED DECEMBER 21, 2006. LOCATIONS OF SITE FEATURES ARE APPROXIMATE.

GENERAL FLOW OFFSITE TO WETLANDS ASSOCIATED WITH THE LITTLE RIVER



LEGEND

- — — — — PROPERTY BOUNDARY
- — — — — STORM WATER DRAIN LINE
- · — · — · EDGE OF WETLANDS
- () — () — UNDERGROUND UTILITY
- - - - - FENCE

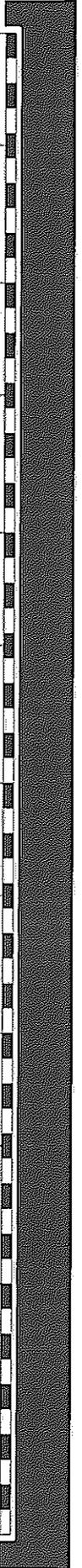


CLIENT: NORTHERN ELASTOMERIC INC.				 GeoInsight <i>Practical in Nature</i>
PROJECT: 61 PINE ROAD BRENTWOOD, NEW HAMPSHIRE				
TITLE: SITE PLAN				
DESIGNED: LWS	DRAWN: NMT	CHECKED: LWS	APPROVED: JAG	
SCALE: 1" = 150'	DATE: 09/24/08	FILE NO.: 2810D030	PROJECT NO.: 2810-001	FIGURE NO.: 2

PLOT DATE: 9-29-08
 FILE: K:\2810-001\2810d030.dwg



ATTACHMENT A
NOI FORM



APPENDIX 5

Suggested Form for Notice of Intent (NOI) for the Noncontact Cooling Water General Permit

1. General facility information. Please provide the following information about the facility.

a) Name of facility: Northern Elastomeric, Inc.		Type of Business: Asphalt Roofing Manufacturing
Facility Location Address : 61 Pine Road Brentwood, New Hampshire longitude: 71deg 00m 44s latitude: 41deg 00m 00s	Facility SIC codes: 2952	Facility Mailing Address (if not location address)
b) Name of facility owner: Northern Elastomeric, Inc.		Email address of owner: pollard@nei-act.com
Owner's Tel #: 800-998-4634 Owner's Fax #: 603-778-0609	Owner is (check one): 1. Federal ___ 2. State ___ 3. Tribal ___ 4. Private <input checked="" type="checkbox"/> 4. Other ___ (Describe)	
Address of owner (if different from facility address) 50 Pine Road, Brentwood New Hampshire		
Legal name of Operator, if not owner: _____		
Operator Contact Name: <u>Sam Pollard</u>		
Operator Tel Number: <u>800-998-4634</u> Fax Number: <u>603-778-0609</u>		
Operator's email: <u>pollard@nei-act.com</u>		
Operator Address (if different from owner) _____		
d) Attach topographic map indicating the locations of the facility and the receiving water; all NCCW discharge points; upstream and downstream monitoring points. Map attached? <u>yes</u>		
e) Check Yes or No for the following:		
1. Has a prior NPDES permit been granted for the discharge? Yes <input checked="" type="checkbox"/> No ___ If Yes, Permit Number: <u>NHG250503</u>		
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes ___ No <input checked="" type="checkbox"/>		
3. Is the facility covered by an individual NPDES permit? Yes ___ No <input checked="" type="checkbox"/> If Yes, Permit Number ___		
4. Is there a pending application on file with EPA for this discharge? Yes ___ No <input checked="" type="checkbox"/> If Yes, date of submittal: _____		

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

- a) Name of receiving water into which discharge will occur: Drainage swale to the Little River.
State Water Quality Classification: B (Little River) Freshwater: x Marine Water: _____
- b) Describe the discharge activities for which the owner/applicant is seeking coverage: Refer to letter.
- c) FOR MASSACHUSETTS FACILITIES ONLY: Engineering Calculations: Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment A of the General Permit. Check if attached: _____
- d) Number of outfalls 1
- For each outfall:
- e) What is the maximum daily and average monthly flow of the discharge? Note that EPA will use the flow reported here as the facility's permitted effluent flow limit. Max Daily Flow 500,000 GPD Average Flow 144,000 GPD
- f) What is the maximum daily and average monthly temperature of the discharge (in degrees F)? Max Temp. 67 Average Temp. 64
- g) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 7.38 Min pH 7.16
- h) FOR MASSACHUSETTS FACILITIES ONLY: Is the source water of the NCCW potable water? Yes _____ No _____ If Yes, EPA will calculate the Total Residual Chlorine limit for facilities located in Massachusetts.
- i) Is the discharge continuous? Yes _____ No x If no, is the discharge periodic **(P)** (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent **(I)** (occurs sometimes but not regularly) or both **(B)** _____
If **(P)**, number of days or months per year of the discharge 355 days and the specific months of discharge Continuous except approximately 10 days in December
If **(I)**, number of days/year there is a discharge _____
- j) Latitude and longitude of each discharge within 100 feet: outfall 1: long. 71deg 00'40.5" lat. 43deg 00'8.2"; outfall 2: long. _____ lat. _____; outfall 3: long. _____ lat. _____ (See http://www.epa.gov/tri/report/siting_tool)
- k) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water Pending review by NHDES cfs
Please attach any calculation sheets used to support stream flow and dilution calculations. See General Permit Attachment B for equations and additional information.
- MASSACHUSETTS FACILITIES: See Part 3.4 and Appendix 1 of the General Permit for more information on ACEC.
Areas of Critical Environmental Concern (ACEC): Does the discharge occur in an ACEC? Yes _____ No _____
If yes, provide the name of the ACEC: _____

3. NCCW Source Water Information. Please provide information about the NCCW source water, using separate sheets as necessary:

<p>a) Indicate source of the NCCW (i.e., municipal water supply, private well, surface water withdrawal, groundwater): Source: <u>Three on-site ground water wells.</u> Name of Source Water: <u>Ground water</u> _____ Is the source registered/permitted under MA Water Management Act or NHDES Water User Registration Rule (Env Wq 2202)? Yes <input checked="" type="checkbox"/> No _____ If yes, registration number: <u>20739-s01</u></p>	<p>b) If source water is surface water: i) Is it a freshwater river or stream Yes _____ No _____ ii) Is it a lake? _____ reservoir? _____ iii) Is it tidal river? _____ estuary? _____ ocean? _____ c) Is the source water groundwater? Yes _____ No _____ If yes, see Appendix 8 and submit effluent and surface water test results, as required in Part 5.4 of the General Permit. d) Does the facility use both a primary and backup source of noncontact cooling water? Yes _____ No _____ If yes, attach information that identifies and explains the primary and backup sources of noncontact cooling water for and how often the backup supply was used in last three years.</p>
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4. Best Technology Available for CWIS

Are you subject to BTA requirements at Part 4.2 of the General Permit? (Facility's discharge is covered by this General Permit and the facility withdraws noncontact cooling water from surface source water). Yes _____ No If No, explain: Source water is not surface water.

If YES, attach the facility-specific BTA description as required in Part 4.3 of the General Permit. For additional information and guidance, see Questions 13-23 of the NCCW Fact Sheet, posted at <http://www.epa.gov/region1/npdes/nccwgp.html>. Provide a map showing the location of each CWIS intake structure; NCCW outfall(s) and any CWIS feature referred to in the BTA description.

Include in your description:

- _____ Measures to meet the General Permit Part 4.3.a general BTA requirements, including documentation that describes the facility's monitoring program for impinged fish and/or invertebrate; or the required alternative monitoring plan frequency and/or protocol
- _____ A characterization of the source water body's aquatic life habitat in the vicinity of each CWIS during the seasons when the CWIS may be in use
- _____ The attributes of the current CWIS
- _____ Design measures of the CWIS
- _____ Operation measures of the CWIS
- _____ Historical occurrence of impinged fish for the past five years
- _____ If applicable, a demonstration that the facility's intake rate is commensurate with a closed-cycle recirculation system
- _____ Other components to reduce impingement and/or entrainment of aquatic life

4. BTA FOR CWIS CONTINUED:

Provide the following information for each CWIS to support your attached facility-specific BTA description.

Design capacity of the of the CWIS _____MGD

Maximum monthly average intake of the CWIS during the previous five years _____MGD Month in which this flow occurred _____

Maximum through-screen design intake velocity _____feet/second (fps)

For facilities where the CWIS is located on a freshwater river or stream, provide the following information:

The source water's annual mean flow _____cubic feet/second (cfs) as available from USGS or other appropriate source

The design intake flow as a % of the source water's annual mean flow _____ Attach calculations if equal to or less than 5% of annual mean flow.

The source water's 7Q10 _____cfs. See Attachment B of the General Permit for more information on 7Q10 determinations.

The design intake flow as a percent of the source water's 7Q10 _____

5. Contaminant Information

If applicable, attach a listing of all non-toxic pH neutralization and/or dechlorination chemicals used, including chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the NCCW discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for aquatic organism(s)). Not Applicable.

6. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendix 2, Part C, Step 4, of the General Permit. In addition, respond to the following questions.

- a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ___ No X
- b) Has any consultation with the federal services been completed? Yes ___ No X
- c) Is consultation underway? Yes ___ No X
- d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one):
a "no jeopardy" opinion ___ or written concurrence ___ on a finding that the discharges are not likely to adversely affect any endangered species or
- e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D or E) have you met? D
- f) Attach a copy of the most current federal listing of endangered and threatened species from the USF&W web site listed in Appendices 2, 2.1 and 4

7. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

- a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes ___ No X
- b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes ___ or No X If yes, attach the results of the consultation(s).
- c) Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1,2 or 3) have you met? 1

8. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

9. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.12 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name:	NORTHMAN ELASTOMERIC INC 61 PINE ROAD BIRCHWOOD ND
Operator signature:	
Title:	VP MANUFACTURING
Date:	9/25/08

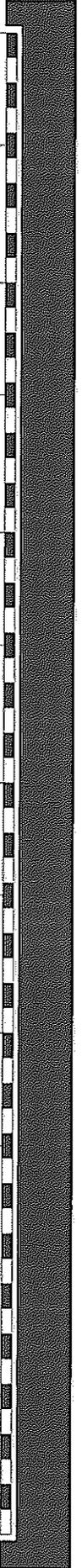
Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

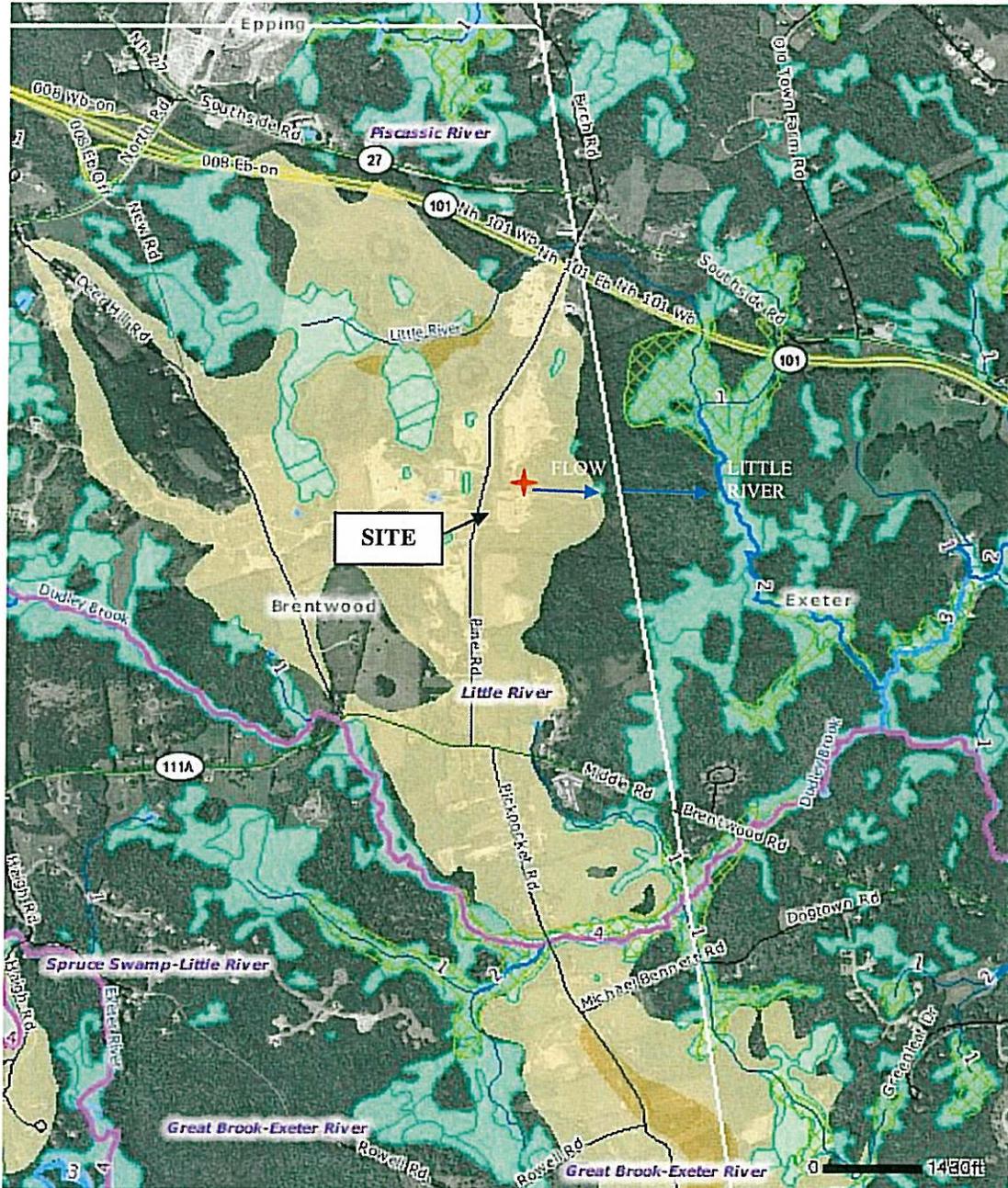


ATTACHMENT B

***NH GRANIT* GEOGRAPHIC INFORMATION SYSTEM DATABASE PRINTOUT**



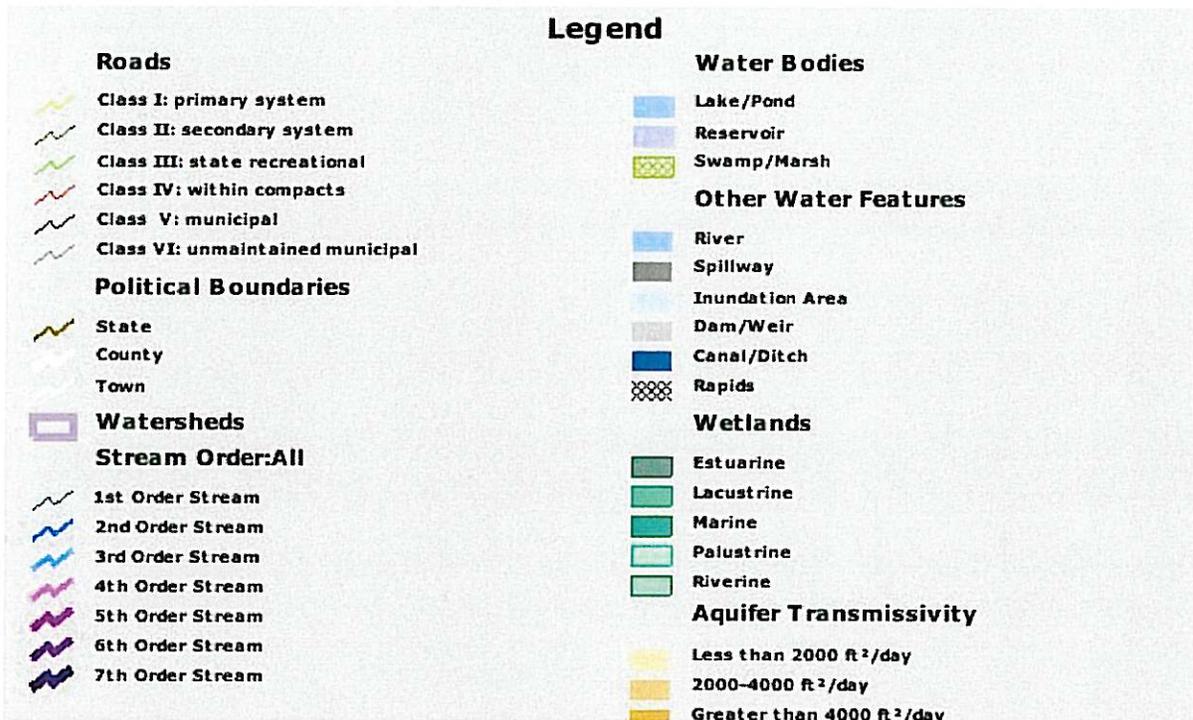
**ATTACHMENT B
GRANIT GIS DATABASE PRINTOUT
HYDROLOGY IN THE VICINITY OF THE FACILITY
NORTHERN ELASTOMERIC, INC.
61 PINE ROAD
BRENTWOOD, NEW HAMPSHIRE**



✚ = Discharge point.

NH GRANIT DATA MAPPER

Water Resources:



Data Sources

All data are maintained and/or distributed by NH GRANIT. See www.granit.unh.edu for detailed documentation on individual data layers.

Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center, under contract to the NH Office of Energy and Planning, and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. OEP, CSRC, and the cooperating agencies make no claim as to the validity or reliability or to any implied uses of these data.



ATTACHMENT C
LABORATORY ANALYTICAL REPORT



Laboratory Report

Luke Sanborn
GeoInsight, Inc.
25 Sundial Avenue
Suite 515 West
Manchester, NH 03103

PO Number: None
LabID: 15291
Date Received: 9/22/08

Project: 2810-001 NEI

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

 (for)

Susan Sylvester
Principal, General Manager

9/26/08

Date

Total number of pages 3

Resource Laboratories, LLC Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: 2810-001 NEI

Lab ID: 15291

Lab Number: 15291-001

Sample ID: NCCW-Eff (092208)

Matrix: Water

Sampled: 9/22/08 8:10

Parameter	Result	Quant		Instr Dil'n		Analyst	Prep Date	Analysis		
		Limit	Units	Factor	Batch			Date	Time	Reference
Antimony	< 0.006	0.006	mg/L	1	BJS		1701	9/22/08	19:33	E200.7
Arsenic	0.009	0.008	mg/L	1	BJS		1701	9/22/08	19:33	E200.7
Cadmium	< 0.005	0.005	mg/L	1	BJS		1701	9/22/08	19:33	E200.7
Chromium	< 0.05	0.05	mg/L	1	BJS		1701	9/22/08	19:33	E200.7
Copper	< 0.05	0.05	mg/L	1	BJS		1701	9/22/08	19:33	E200.7
Iron	0.13	0.05	mg/L	1	BJS		1701	9/22/08	19:33	E200.7
Mercury	< 0.0009	0.0009	mg/L	1	BJS		0802575	9/23/08		E245.1
Nickel	< 0.05	0.05	mg/L	1	BJS		1701	9/22/08	19:33	E200.7
Silver	< 0.007	0.007	mg/L	1	BJS		1701	9/22/08	19:33	E200.7
Zinc	< 0.05	0.05	mg/L	1	BJS		1701	9/22/08	19:33	E200.7

Lab Number: 15291-001

Sample ID: NCCW-Eff (092208)

Matrix: Water

Sampled: 9/22/08 8:10

Parameter	Result	Quant		Instr Dil'n		Analyst	Prep Date	Analysis		
		Limit	Units	Factor	Batch			Date	Time	Reference
Chloride	22	0.5	mg/L	1	JLZ		0802590	9/23/08	16:12	E300.0A
Chromium, Hexavalent	< 0.01	0.01	mg/L	1	APA		0802582	9/24/08		SM3500CrB

RL Resource Laboratories, LLC
 124 Heritage Avenue • Portsmouth, NH 03801
 Phone: 603-436-2001 • Fax: 603-430-2100

**CHAIN-OF-CUSTODY RECORD
 AND ANALYSIS REQUEST**

15291

Company Name: GreatInsight
 Company Address: NH office
 Report To: Luke Sanborn
 Phone #: 603.314.0820
 Invoice To:

Project Name: NET
 Project #: 2810-001
 Project Location: NH MA ME VT Other
 Protocol: RCRA SDWA NPDES
 MCP NHDES OTHER
 Reporting Limits: QAPP GW-1 S-1
 EPA DW Other
 Quote #
 PO #

ANALYSIS REQUEST

VOC 8260 VOC 8260/NHDES VOC 8260/MADEP
 VOC 624 VOC BTEX MIBE, only
 VPH MADEP MEGRO GRD 8015
 VOC 524.2 VOC 524.2 NH LSL
 TPH DRD 8015 MEDRO EPH MADEP TPH Fingerprint
 8270PAH 8270ABH 625 EDR 504.1
 8082 PCB 8081 Pesticides 608 Pest/PCB
 086 1064 Mineral O&G SM6520F
 pH BOD Conductivity Turbidity
 TSS TDS TS Alkalinity
 RCRA Metals Priority Pollutant Metals TAL Metals
 Total Metals-List
 Dissolved Metals-List
 Ammonia COD TRN TN TON
 I-Phosphorus Phenol
 Cyanide Sulfide Nitrate + Nitrite Ortho P
 Nitrate Nitrite Chloride Sulfate Bromide Fluoride
 Corrosivity Reactive CN Reactive S- Ignitibility/FP
 TCLP Metals TCLP VOC TCLP SVOC TCLP Pesticide
 Subcontract: TOC Grain Size TCLP Herbicides

Cr VI
 Total Metals, Sb, As, Cd, Cr, Cu, Fe, Hg, Ni, Ag, Zn.
 Grab (G) or Composite (C)

Lab Sample ID <small>(Lab Use Only)</small>	Field ID	# CONTAINERS	Matrix			Preservation Method						Sampling			
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER (Specify)	DATE	TIME	SAMPLER	
150-01	NCGW-EFF(092208)	3	X								(1)	(2)	09/22/08	09:10	WLS

TAT REQUESTED
 Priority (24 hr)**
 Expedited (48 hr)**
 Standard (10 Business Days)
 **Data Needed _____

See www.reslabs.com for sample acceptance policy and current accreditation lists.
 SPECIAL INSTRUCTIONS:
 (1) Metals sample is for total recoverable, and was not field filtered.
 (2) Preservative is a "buffer" for Cr VI analysis.

REPORTING INSTRUCTIONS NO HARD COPY REQUIRED FAX EXCEL SPREADSHEET
 PDF (e-mail address) _____ OTHER (specify) _____

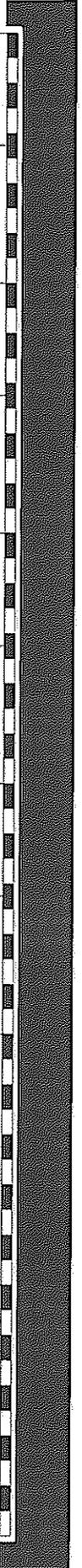
RECEIVED ON ICE YES NO
 TEMPERATURE 5 °C

CUSTODY RECORD

Relinquished by Sampler: <u>Luke Sanborn</u>	Date: <u>09.22.08</u> Time: <u>09:30</u>	Received by: <u>Luke Sanborn</u> Cold Storage (YMS)	Date: <u>09.22.08</u> Time: <u>09:30</u>
Relinquished by: <u>Luke Sanborn</u>	Date: <u>09.22.08</u> Time: <u>09:55</u>	Received by:	Date: _____ Time: _____
Relinquished by:	Date: _____ Time: _____	Received by Laboratory: <u>M. H. [Signature]</u>	Date: <u>9/22/08</u> Time: <u>09:55</u>



ATTACHMENT D
ENDANGERED SPECIES ACT REPORTS





To: Luke Sanborn
GeoInsight
25 Sundial Ave., Suite 515 West
Manchester, NH 03103

Date: 9/16/2008

From: NH Natural Heritage Bureau

Re: Review by NH Natural Heritage Bureau of request dated 9/16/2008

NHB File ID: NHB08-2123

Applicant: NEI

Tax Map(s)/Lot(s): Map 205, Lot 21
Brentwood

Project Categories:
Water/Wastewater: Wastewater facility

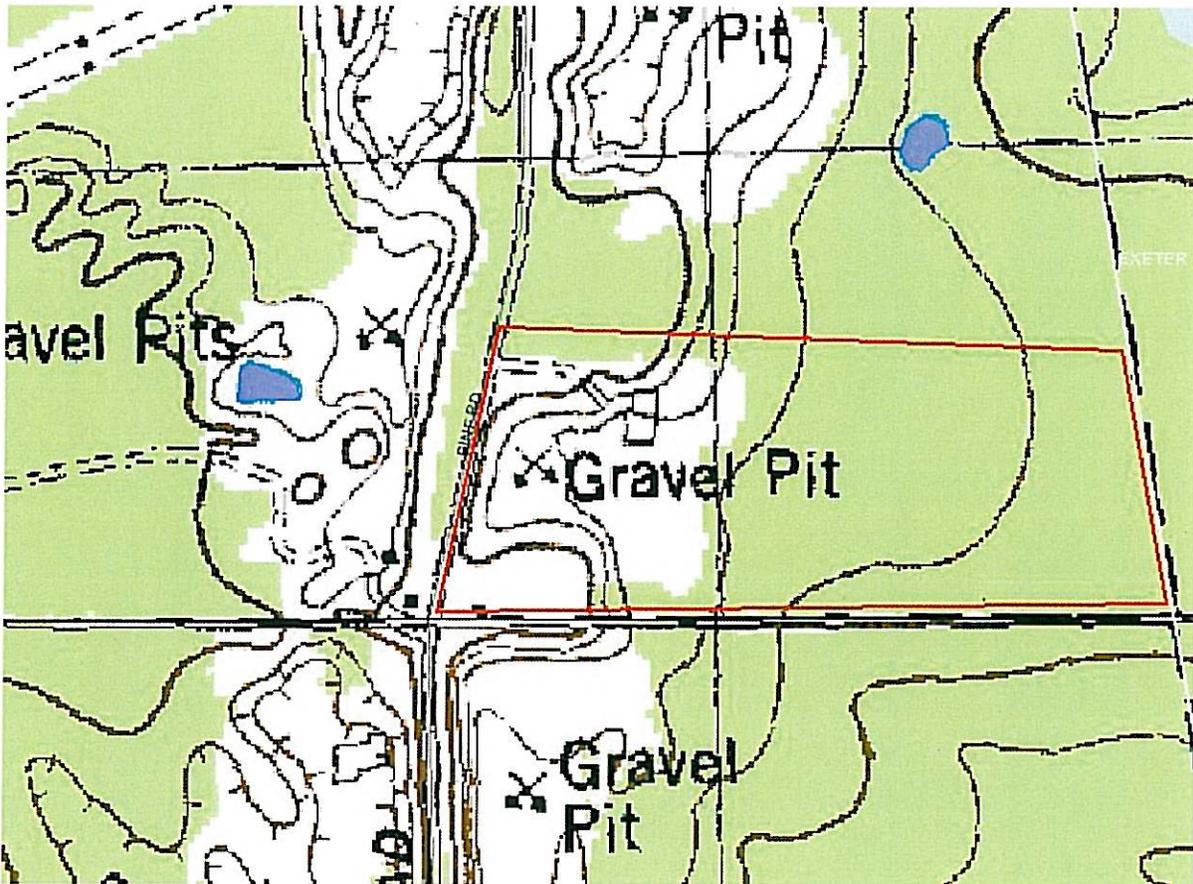
The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present

This review is valid through 9/16/2009.



MAP OF PROJECT BOUNDARIES FOR: NHB ID# NHB08-2123



**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
IN NEW HAMPSHIRE**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Belknap	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Meredith, Alton and Laconia
Carroll	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Albany, Eaton, Madison Wolfeboro, Brookfield and Wakefield
Coos	Canada Lynx	Threatened	Regenerating softwood forest, usually with a high density of snowshoe hare.	All Towns
	Dwarf wedgemussel	Endangered	Connecticut River main channel and Johns River	Northumberland, Lancaster and Dalton
Cheshire	Dwarf wedgemussel	Endangered	S. Branch Ashuelot River and Ashuelot River	Swanzy, Keene and Surry
Grafton	Dwarf wedgemussel	Endangered	Connecticut River main channel	Haverhill, Piermont, Orford and Lyme
	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Holderness
Hillsborough	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Weare
Merrimack	Karner Blue Butterfly	Endangered	Pine Barrens with wild blue lupine	Concord and Pembroke
	Small whorled Pogonia	Threatened	Forests	Danbury, Epsom, Warner and Allenstown
Rockingham	Piping Plover	Threatened	Coastal Beaches	Hampton and Seabrook
	Roseate Tern	Endangered	Atlantic Ocean and nesting at the Isle of Shoals	
	Small whorled Pogonia	Threatened	Forests	Northwood, Nottingham, and Epping
Strafford	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Middleton, New Durham, Milton, Farmington, Strafford, Barrington, and Madbury
Sullivan	Northeastern bulrush	Endangered	Wetlands	Acworth, Charlestown, Langdon and Walpole
	Dwarf wedgemussel	Endangered	Connecticut River main channel	Plainfield, Cornish, Claremont and Charlestown
	Jesup's milk-vetch	Endangered	Banks of the Connecticut River	Plainfield and Claremont

-Eastern cougar, gray wolf and Puritan tiger beetle are considered extirpated in New Hampshire.

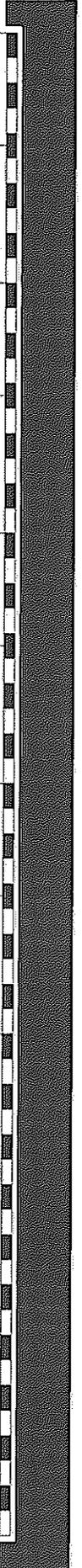
-Endangered gray wolves are not known to be present in New Hampshire, but dispersing individuals from source populations in Canada may occur statewide.

-There is no federally-designated Critical Habitat in New Hampshire.

7/31/2008



ATTACHMENT E
NATIONAL REGISTER OF HISTORIC PLACES



Index By State County report

Row	State	County	Resource Name	Address	City	Listed	Multiple
1	NH	Rockingham	Adams Memorial Building	West Broadway	Derry	1982-01-11	
2	NH	Rockingham	Atkinson Academy School	Academy Ave.	Atkinson	1980-08-26	
3	NH	Rockingham	Atlantic Heights Development	Concord, Crescent, Falkland, Kearsarge, Porpoise, Preble, Raleigh and Saratoga Ways	Portsmouth	2006-09-20	
4	NH	Rockingham	Bartlett, Josiah, House	Main St.	Kingston	1971-11-11	
5	NH	Rockingham	Beck, Samuel, House	The Hill	Portsmouth	1973-04-03	
6	NH	Rockingham	Benedict House	30 Middle St.	Portsmouth	1973-05-11	
7	NH	Rockingham	Chester Congregational Church	4 Chester St.	Chester	1986-06-05	
8	NH	Rockingham	Chester Village Cemetery	NH 102 and NH 121	Chester	1979-11-29	
9	NH	Rockingham	Crockett, John, House	245 Portsmouth Ave.	Stratham	1983-03-24	
10	NH	Rockingham	Currier, Capt. Jonathan, House	Hilldale Ave.	South Hampton	1983-04-11	South Hampton MRA
11	NH	Rockingham	Dame School	NH 152	Nottingham	1980-10-30	
12	NH	Rockingham	Danville Meetinghouse	N. Main St.	Danville	1982-04-19	
13	NH	Rockingham	Danville Town House	210 Main St., NH 111A	Danville	2000-12-01	
14	NH	Rockingham	Deerfield Center Historic District	1 Candia Rd., 1-14 Old Center Road	Deerfield	2002-09-14	

				South			
15	NH	Rockingham	Dudley House	14 Front St.	Exeter	1971-06-21	
16	NH	Rockingham	East Derry Historic District	Roughly bounded by Hampstead , Lane, and Cemetery Rds.	East Derry	1982-08-10	
17	NH	Rockingham	Elkins, John, Farmstead	156 Beach Plain Rd.	Danville	1996-08-30	
18	NH	Rockingham	Elm Farm	599 Main St.	Danville	1988-01-22	
19	NH	Rockingham	Exeter Waterfront Commercial Historic District	Chestnut Hill Ave., Water, Franklin, Pleasant, High and Chestnut Sts.	Exeter	1980-12-03	
20	NH	Rockingham	Exeter Waterfront Commercial Historic District (Boundary Increase)	Chestnut St.	Exeter	1986-12-29	
21	NH	Rockingham	First Church	21 Front St.	Exeter	1971-09-10	
22	NH	Rockingham	First Universalist Church	Main St.	Kingston	1979-12-26	
23	NH	Rockingham	Fort Constitution	Walbach St.	New Castle	1973-07-09	
24	NH	Rockingham	Franklin Block	75 Congress St.	Portsmouth	1984-06-07	
25	NH	Rockingham	Freewill Baptist Church-- Peoples Baptist Church-- New Hope Church	45 Pearl St.	Portsmouth	2003-09-13	
26	NH	Rockingham	Fremont Meeting House	464 Main St.	Fremont	1993-05-27	
27	NH	Rockingham	Front Street Historic	Front St. to the jct. of Spring and	Exeter	1973-07-05	

			District	Water Sts.			
28	NH	Rockingham	Frost, Robert, Homestead	2 mi. SE of Derry	Derry	1968-05-23	
29	NH	Rockingham	Gilman Garrison House	12 Water St.	Exeter	1976-09-27	
30	NH	Rockingham	Gilman, Maj. John, House	25 Cass St.	Exeter	1988-06-14	
31	NH	Rockingham	Greeley House	E of East Kingston on NH 108	East Kingston	1980-06-16	
32	NH	Rockingham	Hampstead Meetinghouse	Emerson Ave.	Hampstead	1980-04-10	
33	NH	Rockingham	Hart, Jeremiah, House	The Hill	Portsmouth	1972-11-14	
34	NH	Rockingham	Hart, John, House	The Hill	Portsmouth	1972-11-14	
35	NH	Rockingham	Hart, Phoebe, House	The Hill	Portsmouth	1973-04-02	
36	NH	Rockingham	Hart-Rice House	The Hill	Portsmouth	1972-08-07	
37	NH	Rockingham	Haven--White House	229 Pleasant St.	Portsmouth	1985-06-06	
38	NH	Rockingham	Highland Road Historic District	Highland and Woodman Rds.	South Hampton	1983-04-11	South Hampton MRA
39	NH	Rockingham	Isles of Shoals	Address Restricted	Rye	1980-12-10	
40	NH	Rockingham	Jackson, Richard, House	Northwest St.	Portsmouth	1968-11-24	
41	NH	Rockingham	James, Benjamin, House	186 Towle Farm Rd.	Hampton	2002-03-13	
42	NH	Rockingham	Jewell Town District	W. Whitehall Rd. and Jewell St.	South Hampton	1983-04-11	South Hampton MRA
43	NH	Rockingham	Jones, John Paul, House	Middle and State Sts.	Portsmouth	1972-11-28	
44	NH	Rockingham	Ladd--Gilman House	Governors Lane and Water St.	Exeter	1974-12-02	
45	NH	Rockingham	Lamprey, Reuben, Homestead	416 Winnacunn et Rd.	Hampton	1982-11-09	
46	NH	Rockingham	Lane,	Portsmouth	Stratham	1983-04-08	

		m	Deacon Samuel and Jabez, Homestead	Ave.			
47	NH	Rockingham	Langdon, Gov. John, Mansion	143 Pleasant St.	Portsmouth	1974-12-02	
48	NH	Rockingham	Larkin--Rice House	180 Middle St.	Portsmouth	1979-11-29	
49	NH	Rockingham	Little Boar's Head Historic District	Parts of Atlantic Ave., Chapel Rd., Ocean Blvd., Sea Rd., and Willow Ave.	North Hampton	1999-06-03	
50	NH	Rockingham	Locke, Elijah, House	5 Grove Rd.	Rye	1979-12-19	
51	NH	Rockingham	MacPheadris--Warner House	Chapel and Daniel Sts.	Portsmouth	1966-10-15	
52	NH	Rockingham	Margeson, Richman, Estate	Long Point Rd. near Great Bay shore	Newington	1990-06-21	
53	NH	Rockingham	Moffatt--Ladd House	154 Market St.	Portsmouth	1968-11-24	
54	NH	Rockingham	Moses--Kent House	1 Pine St.	Exeter	1985-09-12	
55	NH	Rockingham	Neal, James, House	74 Deer St.	Portsmouth	1972-08-07	
56	NH	Rockingham	New Hampshire Bank Building	22--26 Market Sq.	Portsmouth	1979-09-10	
57	NH	Rockingham	Newington Center Historic District	272--336, 305--353 Nimble Hill Rd.	Newington	1987-11-30	
58	NH	Rockingham	Newington Center Historic District (Boundary Increase)	Merrimac Dr. N of Short St.	Newington	1991-12-09	
59	NH	Rockingham	Newmarket Industrial and Commercial Historic	NH 108	Newmarket	1980-12-01	

			District				
60	NH	Rockingham	Nichols Memorial Library	Main St.	Kingston	1981-01-28	
61	NH	Rockingham	Northwood Congregational Church	US 4	Northwood	1979-11-30	
62	NH	Rockingham	Nutter--Rymes House	48 School St.	Portsmouth	1972-11-03	
63	NH	Rockingham	Old North Cemetery	Maplewood Ave.	Portsmouth	1978-03-08	
64	NH	Rockingham	Parsons Homestead	520 Washington Rd.	Rye	1980-12-05	
65	NH	Rockingham	Pinkham, Daniel, House	The Hill	Portsmouth	1972-11-03	
66	NH	Rockingham	Plaistow Carhouse	27 Elm St.	Plaistow	1980-12-10	
67	NH	Rockingham	Porter, General, House	32--34 Livermore St.	Portsmouth	1985-10-11	
68	NH	Rockingham	Portsmouth Athenaeum	9 Market Sq.	Portsmouth	1973-05-24	
69	NH	Rockingham	Portsmouth Cottage Hospital	Junkins Ave., S side of South Mill Pond	Portsmouth	1996-09-13	
70	NH	Rockingham	Portsmouth Public Library	8 Islington St.	Portsmouth	1973-03-20	
71	NH	Rockingham	Prescott, Benjamin Franklin, House	Prescott Rd.	Epping	1987-12-03	
72	NH	Rockingham	Raymond Boston and Maine Railroad Depot	Main St.	Raymond	1979-05-16	
73	NH	Rockingham	Rockingham Hotel	401 State St.	Portsmouth	1982-03-11	
74	NH	Rockingham	Rogers, George, House	76 Northwest St.	Portsmouth	1976-06-07	
75	NH	Rockingham	Rundlet--May House	364 Middle St.	Portsmouth	1976-06-07	
76	NH	Rockingham	Sanborn Seminary	178 Main St.	Kingston	1984-03-15	
77	NH	Rockingham	Sandown Depot, Boston and	Depot Rd.	Sandown	1986-09-04	

			Maine Railroad				
78	NH	Rockingham	Sandown Old Meetinghouse	Fremont Rd.	Sandown	1978-08-09	
79	NH	Rockingham	Searles School and Chapel	Range and Searles Rds.	Windham	1982-01-11	
80	NH	Rockingham	Sewall, Edward, Garrison	16 Epping Rd.	Exeter	1980-01-11	
81	NH	Rockingham	Shapley Town House	454-456 Court St.	Portsmouth	1973-02-28	
82	NH	Rockingham	Sherburne, Henry, House	The Hill	Portsmouth	1972-08-07	
83	NH	Rockingham	Smith's Corner Historic District	Main Ave., South, Stagecoach, and Chase Rds.	South Hampton	1983-04-11	South Hampton MRA
84	NH	Rockingham	Smith, Simeon P., House	The Hill	Portsmouth	1972-11-14	
85	NH	Rockingham	Smyth Public Library	194 High St.	Candia	2007-09-13	
86	NH	Rockingham	South Meetinghouse	Marcy St. and Meeting House Hill	Portsmouth	1982-04-19	
87	NH	Rockingham	South Parish	292 State St.	Portsmouth	1979-08-21	
88	NH	Rockingham	Square Schoolhouse	SR 156 and Ledge Farm Rd.	Nottingham	1980-04-17	
89	NH	Rockingham	St. Andrew's By-The-Sea	Church Rd., 0.2 mi. SE of jct. with South Rd. and Rte. 1A	Rye	2001-12-13	
90	NH	Rockingham	St. John's Church	105 Chapel St.	Portsmouth	1978-01-31	
91	NH	Rockingham	Stevens Memorial Hall	Jct. NH 121 and NH 102	Chester	2004-09-10	
92	NH	Rockingham	Stone School	Granite St.	Newmarket	1978-07-12	
93	NH	Rockingham	Strawberry Banke Historic	Bounded by Court and Marcy	Portsmouth	1975-06-20	

			District	Sts. and both sides of Hancock and Washington Sts.			
94	NH	Rockingham	Tenney, Samuel, House	65 High St.	Exeter	1980-11-25	
95	NH	Rockingham	Thornton, Matthew, House	2 Thornton St.	Derry Village	1971-11-11	
96	NH	Rockingham	Town Center Historic District	Main and Hilldale Aves. and Jewell St.	South Hampton	1983-04-11	South Hampton MRA
97	NH	Rockingham	Town House	Old Centre Rd.	Deerfield	1980-04-17	
98	NH	Rockingham	Unitarian Church	Exeter Rd.	Hampton Falls	1984-12-13	
99	NH	Rockingham	USS ALBACORE	Portsmouth Maritime Museum	Portsmouth	1989-04-11	
100	NH	Rockingham	Watson Academy	Academy St.	Epping	1982-11-09	
101	NH	Rockingham	Weare, Gov. Meshech, House	Exeter Rd. (NH 88)	Hampton Falls	1973-06-29	
102	NH	Rockingham	Weeks House	Weeks Ave. off NH 101	Greenland	1975-06-20	
103	NH	Rockingham	Wentworth, Gov. John, House	346 Pleasant St.	Portsmouth	1973-06-29	
104	NH	Rockingham	Wentworth-Coolidge Mansion	2 mi. S of Portsmouth, off US 1A	Portsmouth	1968-11-24	
105	NH	Rockingham	Wentworth-Gardner and Tobias Lear Houses	Mechanic and Gardner Sts.	Portsmouth	1979-10-30	
106	NH	Rockingham	Wentworth-Gardner House	140 Mechanic St.	Portsmouth	1968-11-24	
107	NH	Rockingham	Whidden-Ward House	The Hill	Portsmouth	1971-11-05	
108	NH	Rockingham	Wiggin Memorial Library	Jct. of Portsmouth Ave. (NH 101) and Stratham Rd., SE	Stratham	1993-12-10	

				corner			
109	NH	Rockingham	Wiggin, Cornet Thomas, House	249 Portsmouth Ave.	Stratham	1983-03-24	
110	NH	Rockingham	Woodman Road Historic District	Woodman Rd.	South Hampton	1983-04-11	South Hampton MRA
111	NH	Rockingham	Young, Gen. Mason J., House	4 Young Rd.	Londonderry	1986-02-27	