NH6910051

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site: State Police Troop E, Fueling Facility , Tamworth		Facility/site address: site		
Location of facility/site: Tamworth, NH longitude: 71.2169 W latitude: 43.8737 N	Facility SIC code(s): N/A	Street: 1864 White Mountain Highway		
b) Name of facility/site owner: NH DOT		Town: Tamworth		
Email address of owner: wdusavitch@dot.state.nh.us		State: NH	Zip: 03886	County: Carroll
Telephone no.of facility/site owner: 603-271-2056				
Fax no. of facility/site owner: 603-271-6085		Owner is (check one): 1. Federal___ 2. State/Tribal ✓ 3. Private___ 4. other, if so, describe:		
Address of owner (if different from site): NH DOT				
Street: 7 Hazen DR				
Town: Concord	State: NH	Zip: 03302-0483	County: Merrimack	
c) Legal name of operator: TMC Services, INC	Operator telephone no: 508-966-6017			
	Operator fax no.: 508-966-6217	Operator email: dgreenwood@hazmatt.com		
Operator contact name and title: Don Greenwood / Project Manager –				
Address of operator (if different from owner):	Street: 1 William Way			
Town: Bellingham	State: MA	Zip: 02019	County: Norfolk	

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No ✓, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No ✓, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes ✓ No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes__ No__

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ✓ No ___ If "yes," please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number: NHDES, 29 Hazen Dr, Concord, NH 03302 (603)271-3674	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N ✓, if Y, number: 2. phase I or II construction storm water general permit? Y___ N ✓, if Y, number: 3. individual NPDES permit? Y ✓ N___, if Y, number: NHR100000 4. any other water quality related permit? Y___ N ✓, if Y, number:

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

a) Describe the discharge activities for which the owner/applicant is seeking coverage: Construction dewatering during UST removal and replacement		
b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft3/s)? Max. flow 70 gpm Average flow 25 gpm Is maximum flow a design value? Y ✓ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
3) Latitude and longitude of each discharge within 100 feet: pt.1:long. 71 21 69 W lat. 43 07 37 N; pt.2: long.____ lat.____; pt.3: long.____ lat.____; pt.4:long.____ lat.____; pt.5: long.____ lat.____; pt.6:long.____ lat.____; pt.7: long.____ lat.____; pt.8:long.____ lat.____; etc.		
4) If hydrostatic testing, total volume of the discharge (gals): n/a		5) Is the discharge intermittent ✓ or seasonal ____? Is discharge ongoing Yes ____ No ✓ ?
c) Expected dates of discharge (mm/dd/yy): start 05/01/10 end 07/30/10		
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).		

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only ✓	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants ✓	Petroleum with Other Contaminants ✓	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is believed present or believed absent in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids	✓		1				ND			
2. Total Residual Chlorine	✓		1				ND			
3. Total Petroleum Hydrocarbons	✓		1				ND			
4. Cyanide	✓		1				ND			
5. Benzene	✓		1				ND			
6. Toluene	✓		1				ND			
7. Ethylbenzene	✓		1				ND			
8. (m,p,o) Xylenes	✓		1				ND			
9. Total BTEX[4]	✓		1				ND			

[4] BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide [5] (1,2- Dibromo-methane)	✓		1				ND			
11. Methyl-tert-Butyl Ether (MtBE)	✓		1				ND			
12. tert-Butyl Alcohol (TBA)	✓		1				ND			
13. tert-Amyl Methyl Ether (TAME)	✓		1				ND			
14. Naphthalene	✓		1				ND			
15. Carbon Tetra-chloride	✓		1				ND			
16. 1,4 Dichlorobenzene	✓		1				ND			
17. 1,2 Dichlorobenzene	✓		1				ND			
18. 1,3 Dichlorobenzene	✓		1				ND			
19. 1,1 Dichloroethane	✓		1				ND			
20. 1,2 Dichloroethane	✓		1				ND			
21. 1,1 Dichloroethylene	✓		1				ND			
22. cis-1,2 Dichloro-ethylene	✓		1				ND			
23. Dichloromethane (Methylene Chloride)	✓		1				ND			
24. Tetrachloroethylene	✓		1				ND			

[5] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1				ND			
26. 1,1,2 Trichloroethane	✓		1				ND			
27. Trichloroethylene	✓		1				ND			
28. Vinyl Chloride	✓		1				ND			
29. Acetone	✓		1				ND			
30. 1,4 Dioxane	✓		1				ND			
31. Total Phenols	✓		1				ND			
32. Pentachlorophenol	✓		1				ND			
33. Total Phthalates [6] (Phthalate esthers)	✓		1				ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1				ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1				ND			
a. Benzo(a) Anthracene	✓		1				ND			
b. Benzo(a) Pyrene	✓		1				ND			
c. Benzo(b)Fluoranthene	✓		1				ND			
d. Benzo(k) Fluoranthene	✓		1				ND			
e. Chrysene	✓		1				ND			

[6] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1				ND			
g. Indeno(1,2,3-cd) Pyrene	✓		1				ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓		1				ND			
h. Acenaphthene	✓		1				ND			
i. Acenaphthylene	✓		1				ND			
j. Anthracene	✓		1				ND			
k. Benzo(ghi) Perylene	✓		1				ND			
l. Fluoranthene	✓		1				ND			
m. Fluorene	✓		1				ND			
n. Naphthalene-	✓		1				ND			
o. Phenanthrene	✓		1				ND			
p. Pyrene	✓		1				ND			
37. Total Polychlorinated Biphenyls (PCBs)	✓		1				ND			
38. Antimony	✓		1				ND			
39. Arsenic	✓		1				ND			
40. Cadmium	✓		1				ND			
41. Chromium III	✓		1				ND			
42. Chromium VI	✓		1				ND			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓		1				ND			
44. Lead		✓	1	Grab	EPA 200.7	0.0075	42.5			
45. Mercury	✓		1				ND			
46. Nickel	✓		1				ND			
47. Selenium	✓		1				ND			
48. Silver	✓		1				ND			
49. Zinc	✓		1				ND			
50. Iron		✓	1	Grab	EPA 200.7	0.0150	6470			
Other (describe):							Unfilt. Sample			

c) For discharges where metals are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y_✓_ N___	If yes, which metals? Pb, Fe
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: Pb, Fe DF: 1.35	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y_✓_ N___ If "Yes," list which metals: Pb, Fe

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate(s)** (gallons per minute) of the treatment system: Average flow rate of discharge 10 Maximum flow rate of treatment system 70 Design flow rate of treatment system 25						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): none						

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct____	Within facility__	Storm drain___✓	River/brook___	Wetlands____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water B.						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.081 cfs Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes___ No✓ If yes, for which pollutant(s)? Is there a TMDL? Yes___ No✓ If yes, for which pollutant(s)?						

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ___ No ✓
Has any consultation with the federal services been completed ? Yes ___ No ✓ or is consultation underway? Yes ___ No ✓
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine 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 critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes ___ No ✓ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ___ No ___

7. 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.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

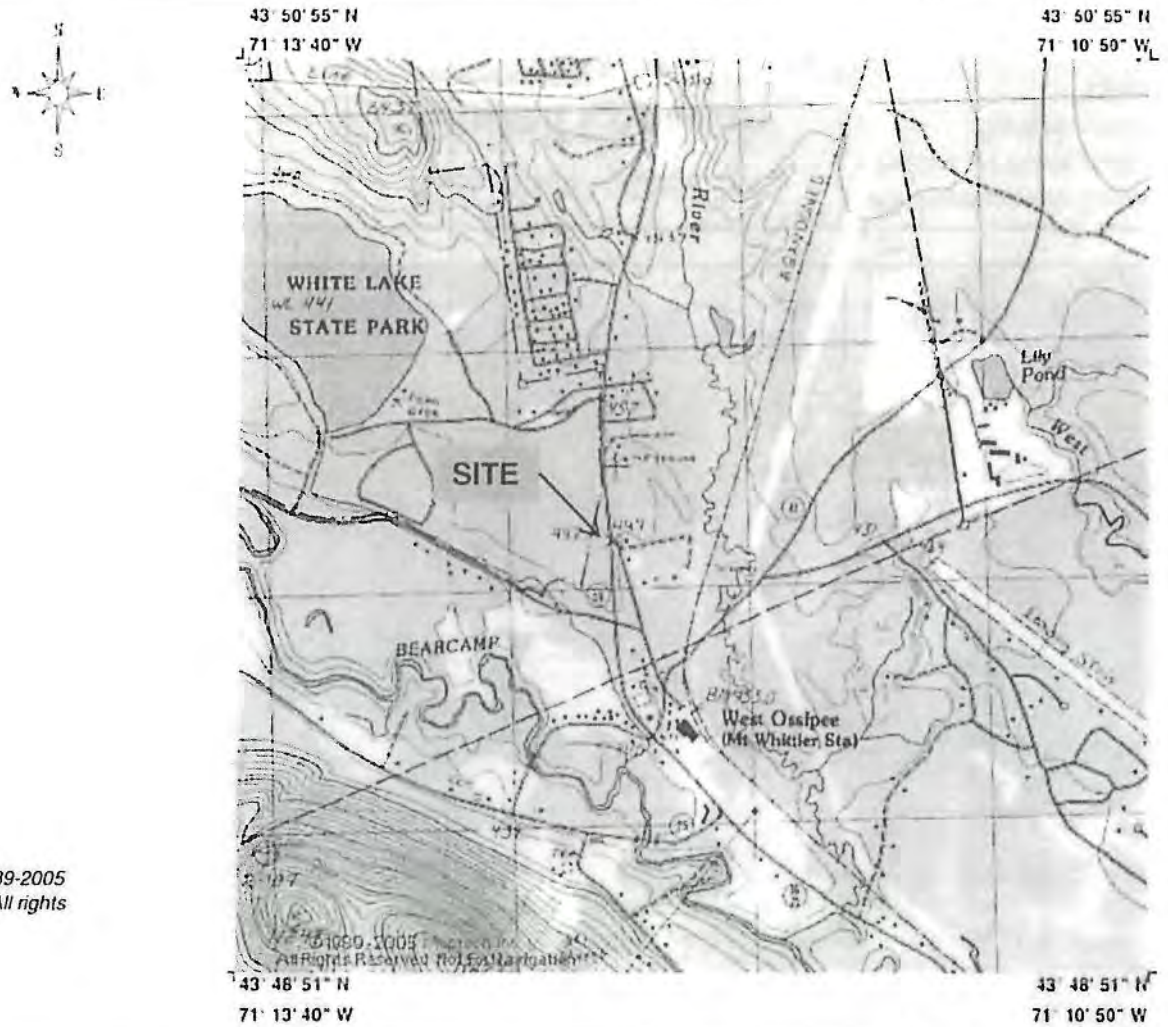
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 Site Name: State Police Troop E, Fueling Facility, Tamworth

Operator signature: [signature]

Title: Project Manager / Director of Technical Services

Date: 4-10-10



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Site: Tamworth, NH
Date: 03/29/10
Location: **Scale: 1:24000**
043°87'37"N
071°21'69"W

TMC Services, Inc.

PROJECT LOCATION PLAN

NOI Remediation General Permit
NH Dept. of Transportation, Concord, NH

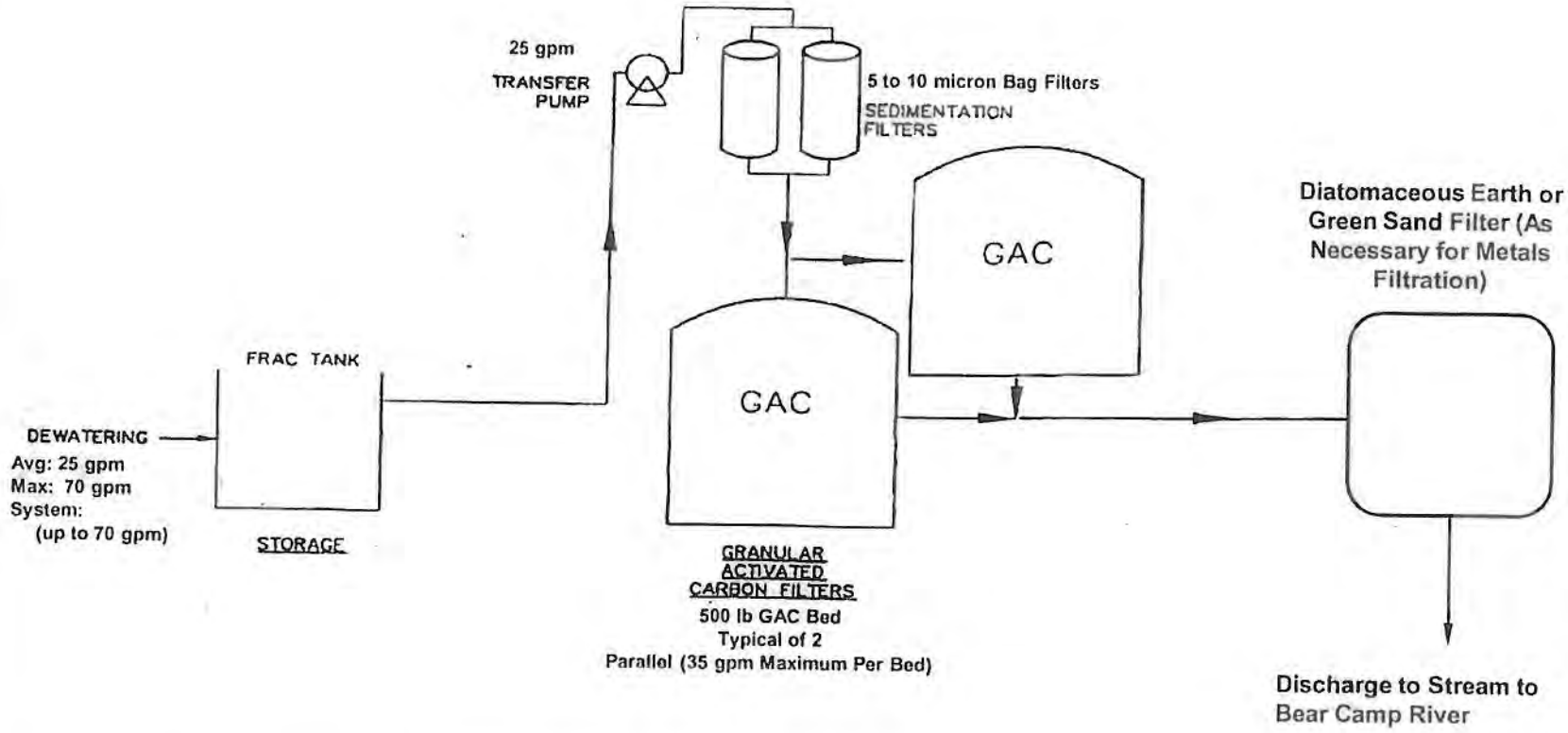
NHDOT TAMWORTH Site

Tamworth, NH

March, 2010 **Figure 1**

Scale

Site: Tamworth, NH Date: 03/29/10 Location: *043o87'37"N* *071o21'69"W*		*TMC Services, Inc.* **Outfall Location Plan**	NOI Remediation General Permit NH Dept. of Transportation, Concord, NH Twin Mountain (Tamworth Site) Tamworth, NH March 2010 Figure 2



Site: Tamworth, NH
Date: 03/29/10

Location:

043°87'37"N

071°21'69"W

TMC Services, Inc.

Proposed Treatment System Process Diagram

NOI Remediation General Permit
NH Dept. of Transportation, Concord, NH

NHDOT TAMWORTH Site

Tamworth, NH

March, 2010

Figure 3

Appendix C – National Heritage Bureau – NH

- No expected impact determination -

NEW HAMPSHIRE NATURAL HERITAGE BUREAU
DRED - DIVISION OF FORESTS & LANDS
PO BOX 1856 – 172 PEMBROKE ROAD, CONCORD, NH 03302-1856
(603) 271-2214

To: Don Greenwood, TMC Service

From: Melissa Coppola, NH Natural Heritage Bureau

Date: April 9, 2010

Subject: NHB10-0757

This memo is a follow-up to NHB10-0757 which had indicated an exemplary natural community in the vicinity of the proposed project. The Natural Heritage Bureau (NHB) requested further information about the project to determine if there is a potential for impacts.

Based on the information provided (project narrative), NHB does not expect impacts to the adjacent ***pitch pine - scrub oak woodland.***

Should you have any further questions, contact me at 603-271-2215 ext. 323 or at Melissa.Coppola@dred.state.nh.us.

Memo

NH NATURAL HERITAGE BUREAU

To: Don Greenwood, TMC Services Inc
1 William Way
Bellingham, MA 02019

From: Melissa Coppola, NH Natural Heritage Bureau
Date: 4/6/2010 2:35:35 PM (valid for one year from this date)
Re: Review by NH Natural Heritage Bureau
NHB File ID: NHB10-0757
Project type: Roads, Driveways, Bridges: Driveway only, etc.
Town: Tamworth
Location: 1864 white mountain highway

As requested, I have searched our database for records of rare species and exemplary natural communities, with the following results.

Comments: Please send site photos and project narrative to NHB (mcoppola@dred.state.nh.us) for further review.

Natural Community	State[1]	Federal	Notes
Pitch pine - scrub oak woodland	--	--	The primary threat to this natural community is development and fire suppression.

[1]Codes: "E" = Endangered, "T" = Threatened, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list. An asterisk (*) indicates that the most recent report for that occurrence was more than 20 years ago.

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. For some purposes, including legal requirements for state wetland permits, the fact that no species of concern are known to be present is sufficient. However, an on-site survey would provide better information on what species and communities are indeed present.

Department of Resources and Economic Development
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

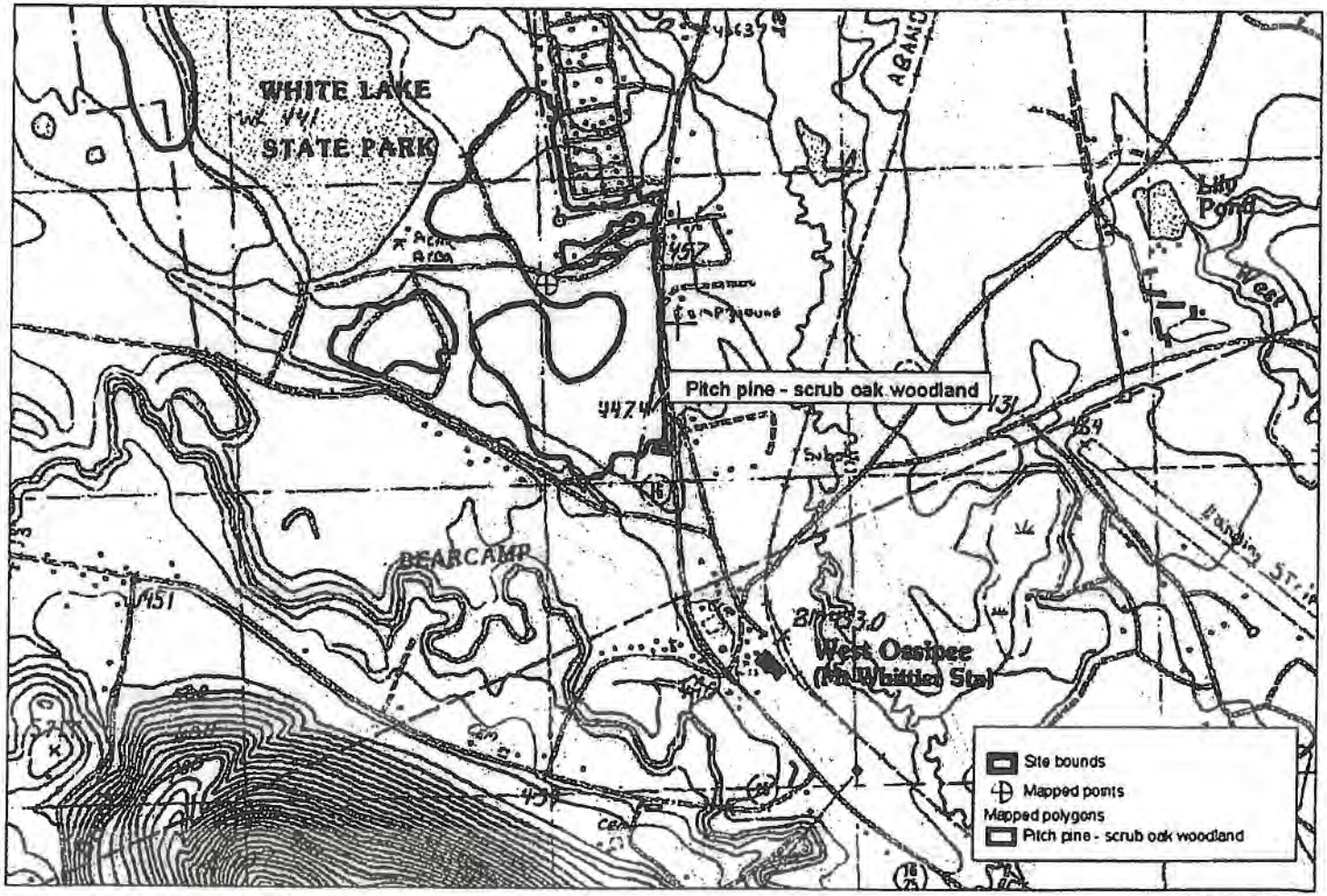
DRED/NHB
PO Box 1856
Concord NH 03302-1856

NHB10-0757

NH NATURAL HERITAGE BUREAU

Known locations of rare species and exemplary natural communities

Note: Mapped locations are not always exact. Occurrences that are not in the vicinity of the project are not shown.



*Historical record

0 25 0 0 25 0 5 0 75 1 Miles

1 18000

Valid for one year from this date 06 Apr 2010

New Hampshire Natural Heritage Bureau - Community Record

Pitch pine - scrub oak woodland

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank:	Good quality, condition and lanscape context ('B' on a scale of A-D).
Comments on Rank:	Relatively undisturbed.
Detailed Description:	2006: Area 1 visited. Pitch pine and scrub oak observed, among other pines and beech trees.1971: Flat, sandy land. Area dominated by *Pinus rigida* (pitch pine) (to 24 inch DBH) and *Quercus ilicifolia* (scrub oak). Also present are *Pinus resinosa* (red pine), *Comptonia peregrina* (sweet fern), *Vaccinium angustifolium* (early low blueberry), *Betula populifolia* (gray birch), *Acer rubrum* (red maple), and other species.
General Area:	2006: Area 1 is bordered to the east by the lake, and several exemplary kettle hole bogs are present immediately to the west.
General Comments:	
Management Comments:	2006: No evidence of fire since the last update of this record.

Location

Survey Site Name:	White Lake State Park		
Managed By:	White Lake State Park		
County:	Carroll	USGS quad(s):	Ossipee Lake (4307172)
Town(s):	Tamworth	Lat, Long:	435005N, 0711248W
Size:	160.8 acres	Elevation:	460 feet

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: From the junction of Rte. 25 and Rte. 16 in West Ossipee, go north on Rte. 16 ca. 1 mile. White Lake State Park entrance is on the left. Area 1 (the National Natural Landmark portion) is near the northwest shore of White Lake. Area 2 is south of the lake. Area 3 is the largest area, east and southeast of the lake, up to the border with Rte. 16.

Dates documented

First reported:	1971	Last reported:	2006-04-12

Kimball, Ben and Pete Bowman. 2006. Field visit to White Lake State Park on April 12.

Anonymous. 1972. New Hampshire Natural Areas. New England Natural Areas Project. Cambridge, MA.

Appendix D – 2010 Threatened or Impaired Waters that Require a TMDL Category 5 Impairments-Section 303d List- Bear Camp River

DRAFT - 2010 LIST OF THREATENED OR IMPAIRED WATERS THAT REQUIRE A TMDL

Date: 2/19/10

(i.e., Category 5 Impairments - this represtents the Section 303(d) List)

Notes:
1. See the Consolidated Assessment and Listing Methodology (CALM) for definitions and details regarding how this list was developed.
2. This list is sorted by Waterbody Type and then Assessment Unit ID.
3. TMDL stands for Total Maximum Daily Load study. TMDL schedules are subject to change as funding and resources become available.
4. Waters presented on this list may also be threatened or impaired by other pollutants or nonpoliutants that do not require a TMDL.

Assessment Unit ID	Water Name	Primary Town	Water Size	Size Unit	Use Desc	Impairment Name	DES Category	Threat	TMDL Priority	TMDL Schedule	Source Name
NHRIV600020604-06	Chocorua River	TAMWORTH	5.530	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020605-08	Bearcamp River	TAMWORTH	2.450	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020605-11	Bearcamp River	TAMWORTH	4.430	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020605-13	Bearcamp River	OSSIPEE	4.510	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020701-01	Beech River	WOLFEBORO	0.770	MILES	Aquatic Life	pH	5-M	N	LOW	2019	Source Unknown
NHRIV600020701-02	Beech River	TUFTONBORO	0.390	MILES	Aquatic Life	pH	5-M	N	LOW	2019	Source Unknown
NHRIV600020701-06	Beech River	OSSIPEE	6.030	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020702-02	Dan Hole River, CLS-A	OSSIPEE	6.610	MILES	Aquatic Life	Fishes Bioassessments (Streams)	5-P	N	LOW	2021	Source Unknown
					Primary Contact Recreation	Escherichia coli	5-P	N	HIGH	2021	Source Unknown
NHRIV600020703-01	UNNAMED BROOKS - TO PINE RIVER POND	WOLFEBORO	7.910	MILES	Aquatic Life	pH	5-M	N	LOW	2017	Source Unknown
NHRIV600020703-02	UNNAMED BROOK - TO PINE RIVER POND	WAKEFIELD	2.190	MILES	Aquatic Life	pH	5-M	N	LOW	2019	Source Unknown
NHRIV600020703-05	Poland Brook	OSSIPEE	7.640	MILES	Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5-P	N	LOW	2019	Source Unknown
NHRIV600020703-06	Pine River	OSSIPEE	5.600	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020703-07	FRENCHMAN BROOK	OSSIPEE	1.140	MILES	Aquatic Life	pH	5-P	N	LOW	2021	Source Unknown
NHRIV600020703-08	FRENCHMAN BROOK - UNNAMED BROOK	OSSIPEE	2.410	MILES	Aquatic Life	pH	5-P	N	LOW	2021	Source Unknown
NHRIV600020703-12	Pine River	EFFINGHAM	5.190	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020703-13	Pine River	OSSIPEE	1.580	MILES	Aquatic Life	pH	5-M	N	LOW	2019	Source Unknown
NHRIV600020801-02	Forrest Brook	MADISON	8.940	MILES	Aquatic Life	pH	5-P	N	LOW	2021	Source Unknown
NHRIV600020801-05	WEST BRANCH	OSSIPEE	4.630	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020802-04	Lovell River	OSSIPEE	8.780	MILES	Aquatic Life	pH	5-P	N	LOW	2021	Source Unknown
NHRIV600020802-05	Red Brook	EFFINGHAM	2.160	MILES	Aquatic Life	Oxygen, Dissolved	5-P	N	LOW	2019	Source Unknown
						pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020802-07	WESTAMOR BROOK	OSSIPEE	1.250	MILES	Aquatic Life	Oxygen, Dissolved	5-P	N	LOW	2021	Source Unknown
						pH	5-P	N	LOW	2021	Source Unknown
NHRIV600020802-10	UNNAMED BROOK	OSSIPEE	0.715	MILES	Aquatic Life	PH	5-M	N	LOW	2023	Source Unknown
NHRIV600020804-01	Cold Brook	FREEDOM	2.490	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020804-02	UNNAMED BROOK - FROM BROAD BAY TO DANFORTH POND	FREEDOM	0.240	MILES	Aquatic Life	pH	5-P	N	LOW	2019	Source Unknown
NHRIV600020804-03	Phillips Brook	EFFINGHAM	1.900	MILES	Aquatic Life	OXYGEN, DISSOLVED	5-P	N	LOW	2023	Source Unknown
						pH	5-P	N	LOW	2019	Source Unknown

Appendix E- NH Watershed Report Card (1008)- Bear Camp River

TAMWORTH SITE
NHDOT

Welcome to New Hampshire's Watershed Report Cards built from the 2008, 305(b)/303(d)

Each Watershed Report Card covers a single 12 digit Hydrologic Unit Code (HUC12), on average a 34 square mile area. Each Watershed Report Card has three components;

1. REPORT CARD - A one page card that summarizes the overall use support for Aquatic Life, Primary Contact (i.e. Swimming), and Secondary Contact (i.e. Boating) Designated Uses on every Assessment Unit ID (AUID) within the HUC12.
2. HUC 12 MAP - A map of the watershed with abbreviated labels for each AUID within the HUC12.
3. ASSESSMENT DETAILS - Anywhere from one to forty pages with the detailed assessment information for each and every AUID in the Report Card and Map.

How are the Surface Water Quality Assessment determinations made?

All readily available data with reliable Quality Assurance/Quality Control is used in the biennial surface water quality assessments. For a full understanding of how the Surface Water Quality Standards (Env-Wq 1700) are translated into surface water quality assessments we urge the reader to review the 2008 Consolidated Assessment and Listing Methodology (CALM) at http://des.nh.gov/organization/divisions/water/wmb/swqa/2008/index.htm (appendices 4 & 5)

Where can I find more advanced resources?

Additional resources including GIS shapefiles (appendix 12) of all AUIDs in a sortable EXCEL file (appendix 22) of the detailed assessments are available at http://des.nh.gov/organization/divisions/water/wmb/swqa/2008/index.htm.

How are assessments coded in the report card?

Assessment outcomes are displayed on a color scale as well as an alpha numeric scale that provides additional distinctions for the designated use and Parameter level assessments as outlined in the table below.

			Poor Not Supporting, Marginal	Likely Bad Insufficient Information – Potentially Not Supporting	No Data No Data	Likely Good Insufficient Information – Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
CATEGORY	Description							
*Category 2	Meets standards						2-M or 2-OBS	2-G
Category 3	Insufficient Information			3-PNS	3-ND	3-PAS		
Category 4	Does not Meet Standards;							
4A	TMDL^ Completed		4A-M or 4A-T					
4B	Other enforceable measure will correct the issue.		4B-M or 4B-T					
4C	Non-pollutant (i.e. exotic weeds)		4C-M					
Category 5	TMDL^ Needed		5-M or 5-T					

* "Category 1" only exists at the Assessment Unit Level.

^ TMDL stands for Total Maximum Daily Load studies (http://des.nh.gov/organization/divisions/water/wmb/tmdl/index.htm)

WATERSHED 305(b) ASSESSMENT SUMMARY REPORT:

HUC 12 010600020605

HUC 12 NAME LOWER BEARCAMP RIVER

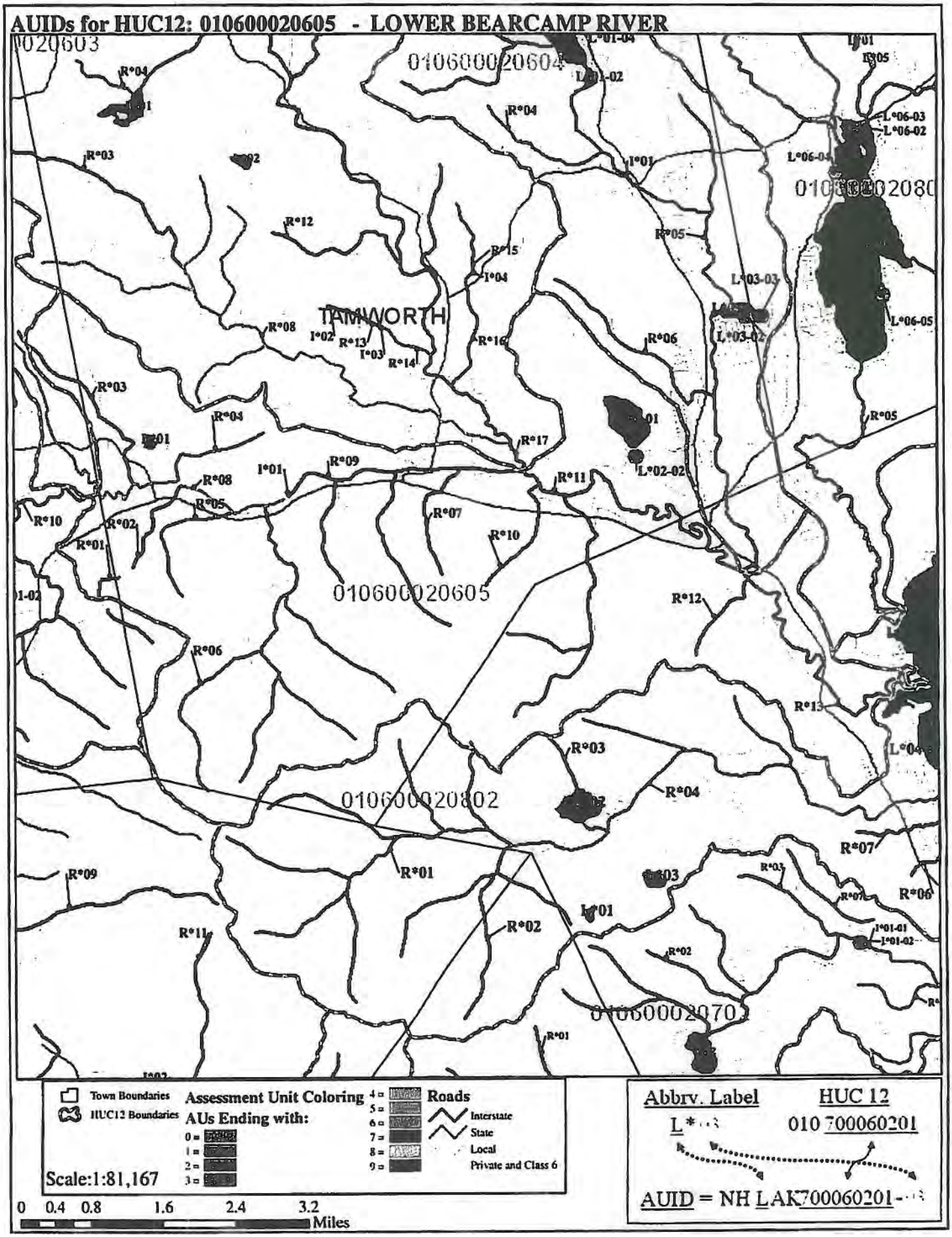
(Locator map on next page only applies to this HUC12)

Assessment Cycle 2008

Good		Full Support Good
Marginal		Full Support Marginal
Likely Good		Insufficient Information – Potentially Full Support
No Data		No Data
Likely Bad		Insufficient Information – Potentially Not Support
Poor		Not Support Marginal

ASSESSMENT UNIT ID	MAP LABEL	ASSESSMENT UNIT NAME	AQUATIC LIFE	SWIMMING	BOATING	FISH CONSUMP.
NHIMP600020605-01	I*01	BEARCAMP RIVER II	3-ND	3-ND	3-ND	
NHLAK600020605-01	L*01	JACKMAN POND	3-ND	3-ND	3-ND	
NHLAK600020605-02-01	L*02-01	WHITE LAKE		3-ND	3-ND	
NHLAK600020605-02-02	L*02-02	WHITE LAKE - STATE PARK BEACH				
NHRIV600020605-01	R*01	UNNAMED BROOK - TO BEAVER POND	3-ND	3-ND	3-ND	
NHRIV600020605-02	R*02	UNNAMED BROOK - FROM BEAVER POND TO COLD RIVER	3-ND	3-ND	3-ND	
NHRIV600020605-03	R*03	MEADOW BROOK	3-ND	3-ND	3-ND	
NHRIV600020605-04	R*04	UNNAMED BROOK - TO COLD RIVER	3-ND	3-ND	3-ND	
NHRIV600020605-05	R*05	UNNAMED BROOK - TO COLD RIVER	3-ND	3-ND	3-ND	
NHRIV600020605-06	R*06	COLD BROOK - BACK BROOK - LORD BROOK	3-ND	3-ND	3-ND	
NHRIV600020605-07	R*07	SANGER BROOK	3-ND	3-ND	3-ND	
NHRIV600020605-08	R*08	BEARCAMP RIVER		3-ND	3-ND	
NHRIV600020605-09	R*09	BEARCAMP RIVER	3-ND	3-ND	3-ND	
NHRIV600020605-10	R*10	STONY BROOK	3-ND	3-ND	3-ND	
NHRIV600020605-11	R*11	BEARCAMP RIVER		3-ND	3-ND	
NHRIV600020605-12	R*12	UNNAMED BROOK - TO COLD RIVER	3-ND	3-ND	3-ND	
NHRIV600020605-13	R*13	BEARCAMP RIVER - CHOCORUA RIVER		3-ND	3-ND	

Date: 2/6/09


AUIDs for HUC12: 010600020605 - LOWER BEARCAMP RIVER
010600020604
010600020605
010600020802
TAMWORTH
Town Boundaries
HUC12 Boundaries
Assessment Unit Coloring
AUs Ending with:
0 =
1 =
2 =
3 =
4 =
5 =
6 =
7 =
8 =
9 =
Roads
Interstate
State
Local
Private and Class 6
Scale:1:81,167
0 0.4 0.8 1.6 2.4 3.2
Miles
Abbrv. Label
HUC 12
010700060201
AUID = NH LAK700060201-

Assessment Unit ID NHIMP600020605-01 Size 1.0000 ACRES

Assessment Unit Name BEARCAMP RIVER II Beach N

Primary Town TAMWORTH Assessment Unit Category*- 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai: Date	Source Name (Impairments only)
Aquatic Life	3-ND		Dissolved oxygen saturation	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2007		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B-Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Date: 2/6/09

Assessment Unit ID NHLAK600020605-01 Size 17.2000 ACRES

Assessment Unit Name JACKMAN POND Beach N

Primary Town TAMWORTH Assessment Unit Category*- 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai: Date	Source Name (Impairments only)
Aquatic Life	3-ND		Dissolved oxygen saturation	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHLAK600020605-02-01
Assessment Unit Name WHITE LAKE
Primary Town TAMWORTH

Size 123.0000 ACRES
Beach N
Assessment Unit Category* 4A-M

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attain Date	Source Name (Impairments only)
Aquatic Life	4A-M		ALKALINITY, CARBONATE AS CACO3	N	3-PNS			
			ALUMINUM	N	2-G			
			CHLORIDE	N	3-PAS			
			Dissolved oxygen saturation	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	4A-M	2004		Atmospheric Deposition - Acidity
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

	Poor	Likely Bad	No Data	Likely Good	Marginal	Good
	Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G - Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5-Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHLAK600020605-02-02 Size 2.5700 ACRES

Assessment Unit Name WHITE LAKE - STATE PARK BEACH Beach Y

Primary Town TAMWORTH Assessment Unit Category 5-M

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attain Date	Source Name (Impairments only)
Aquatic Life	5-M		ALKALINITY, CARBONATE AS CACO3	N	3-PNS			
			ALUMINUM	N	2-G			
			CHLORIDE	N	3-PAS			
			Dissolved oxygen saturation	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	5-M	2019		Atmospheric Deposition - Acidity
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	5-M		ESCHERICHIA COLI	N	5-M	2021		Source Unknown
Secondary Contact Recreation	2-G		ESCHERICHIA COLI	N	2-G			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
(Not Supporting, Marginal)	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND - Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS- Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M-Marginally Impairment, P-Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-01 | Size 0.4400 MILES

Assessment Unit Name UNNAMED BROOK - TO BEAVER POND | Beach N

Primary Town SANDWICH | Assessment Unit Category*~ 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai: Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-02 Size 1.1600 MILES

Assessment Unit Name UNNAMED BROOK - FROM BEAVER POND TO COLD Beach N

Primary Town TAMWORTH Assessment Unit Category*~ 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai: Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

	Poor	Likely Bad	No Data	Likely Good	Marginal	Good	
	Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good	

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A-Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C-Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M-Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-03 Size 2.4000 MILES

Assessment Unit Name MEADOW BROOK Beach N

Primary Town TAMWORTH Assessment Unit Category*- 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Date: 2/6/09

Assessment Unit ID NHRIV600020605-04 Size 1.2800 MILES

Assessment Unit Name UNNAMED BROOK - TO COLD RIVER Beach N

Primary Town TAMWORTH Assessment Unit Category*- 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2007		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A-Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5-Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID	NHRIV600020605-05	Size 1.6100 MILES	**2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit**
Assessment Unit Name	UNNAMED BROOK - TO COLD RIVER	Beach N	
Primary Town	TAMWORTH	Assessment Unit Category*- 3-ND	

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attain Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-06 Size 8.6100 MILES

Assessment Unit Name COLD BROOK - BACK BROOK - LORD BROOK Beach N

Primary Town TAMWORTH Assessment Unit Category*- 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attain Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

	Poor	Likely Bad	No Data	Likely Good	Marginal	Good
	Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-07 | Size 4.7500 MILES

Assessment Unit Name SANGER BROOK | Beach N

Primary Town TAMWORTH | Assessment Unit Category*~ 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai: Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M ~ Supports Parameter marginally above criteria, 2-OBS ~ Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND ~ Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-08 Size 2.4500 MILES

Assessment Unit Name BEARCAMP RIVER Beach N

Primary Town TAMWORTH

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai Date	Source Name (Impairments only)
			Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			CHLORIDE	N	3-PAS			
			DISSOLVED OXYGEN SATURATION	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			OXYGEN, DISSOLVED	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting; Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories: 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T-Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-09 Size 2.7400 MILES

Assessment Unit Name BEARCAMP RIVER Beach N

Primary Town TAMWORTH Assessment Unit Category*~ 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

	Poor	Likely Bad	No Data	Likely Good	Marginal	Good
	Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T-Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-10
Assessment Unit Name STONY BROOK
Primary Town OSSIPEE

Size 5.6700 MILES
Beach N
Assessment Unit Category*~ 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A-Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-11 Size 4.4300 MILES

Assessment Unit Name BEARCAMP RIVER Beach N

Primary Town TAMWORTH [redacted]

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai: Date	Source Name (Impairments only)
			Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			CHLORIDE	N	3-PAS			
			DISSOLVED OXYGEN SATURATION	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			OXYGEN, DISSOLVED	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B-Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M-Marginally Impairment, P=Severe Impairment, T=Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-12 Size 1.1100 MILES

Assessment Unit Name UNNAMED BROOK - TO COLD RIVER Beach N

Primary Town OSSIPEE Assessment Unit Category*- 3-ND

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai: Date	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5-Impaired/TMDL needed) M-Marginally Impairment, P=Severe Impairment, T-Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Assessment Unit ID NHRIV600020605-13 Size 4.5100 MILES

Assessment Unit Name BEARCAMP RIVER - CHOCORUA RIVER Beach N

Primary Town OSSIPEE [redacted]

2008, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attai: Date	Source Name (Impairments only)
			Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			CHLORIDE	N	3-PAS			
			DISSOLVED OXYGEN SATURATION	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			OXYGEN, DISSOLVED	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Secondary Contact Recreation	3-ND		Escherichia coli	N	3-ND			
Wildlife	3-ND							

Poor	Likely Bad	No Data	Likely Good	Marginal	Good
Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A-Impaired/TMDL Completed, 4B-Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P-Severe Impairment, T-Threatened (http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm)

Date: 2/6/09

Appendix F – Calculation of Dilution Factor

NHDOT Tamworth Site, Tamworth, NH

TMC Services, Inc.
One William Way
Bellingham, MA 02019
TEL: 508-966-3737
FAX: 508-966-4861

JOB 4009-580 NO 1
CALCULATED BY ZSE DATE 4-08-10
CHECKED BY _____ DATE _____
DESCRIPTION DF. CALCS SHEET NO 1/1
TAMWORTH PATROL SHED

APPENDIX F

CALCULATION OF DILUTION FACTOR (DF),

SITE: TAMWORTH, NH

DISCHARGE: BROOK FROM WHITE LAKE TO BEAR CAMP RIVER

DES 7Q10: 0.081 CFS
(DAN DUDLEY, MARCH 26, 2010)

$$DF = [(Qd + Qs)/Qd] \times 0.9 \quad NH$$

$$DF = (70gpm \times 0.00223 + 0.081)/70 \times 0.00223) \times 0.9$$

$$DF = [(0.161 + 0.081)/0.161] \times 0.9$$

$$DF = 1.35$$

THEREFORE, W/ A DILUTION FACTOR OF 1.27 UTILIZE COLUMN W/ DILUTION RANGE CONCENTRATION OF 0-5 IN APPENDIX IV IN THE NPDES RGP.

DF - DILUTION FACTOR
Qd - MAX FLOW RATE DISCHARGE IN (CFS)
Qs - RCVG WATER 7Q10
7Q10 - THE MIN FLOW (CFS) FOR 7 CONSEQ. DAYS W/ A RECURRENCE INTERVAL OF 10 YRS.

Brandon Fagan

From: Dudley, Dan [Daniel.Dudley@des.nh.gov]
Sent: Friday, March 26, 2010 4:32 PM
To: Brandon Fagan
Cc: Andrews, Jeff
Subject: RE: Site Location Maps for Tamworth and Twin Mountain UST Excavation & Replacement
Attachments: 2010 303(d) list excerpts.pdf

Brandon,

It appears that the discharge from Tamworth site would be to the brook that flows from White Lake to the Bearcamp River. The 7Q10 for this stream at the proposed discharge site is 0.081 cfs.
It appears that the discharge from the Twin Mountain site would be to the small brook behind the site. The 7Q10 there is 0.07 cfs
If the Twin Mountain discharge is to the Ammonoosuc River (on the south side of highway), the 7Q10 for that location is 18.6 cfs.

Both the Tamworth and Twin Mountain sites would discharge to Class B surface waters.

Surface water assessment units are as follows:

Stream from White Lake to Bearcamp River: NHRIV600020605-14 (not assessed)
Bearcamp River at confluence with above stream NHRIV600020605-11 (pH impairments)
Select Tamworth at this link to 2008 303(d) report cards: http://www2.des.nh.gov/SWQA/SWQAList.aspx

Small Stream behind Twin Mountain Site: NHRIV801030402-28 (part of NHRIV801030402-07-01 below)
Ammonoosuc R at Twin Mountain Site: NHRIV801030402-07-01 (pH impairment)
Select Carroll at this link to 2008 303(d) report cards: http://www2.des.nh.gov/SWQA/SWQAList.aspx

Also see attached excerpts from 2010 draft 303(d) list

I will be out of the office on Monday. Feel free to call me on Tuesday.

Dan

Daniel Dudley, P.E.
N.H. Department of Environmental Services
Wastewater Engineering Bureau
P.O. Box 95 - 29 Hazen Drive
Concord, NH 03302-0095

Phone: 603-271-0671
Fax: 603-271-4128
e-mail: Daniel.Dudley@des.nh.gov

-----Original Message-----
From: Brandon Fagan [mailto:bfagan@hazmatt.com]
Sent: Friday, March 26, 2010 1:43 PM
To: Dudley, Dan
Subject: FW: Site Location Maps for Tamworth and Twin Mountain UST Excavation & Replacement

Brandon Fagan PG, LSP
Director of Technical Services
bfagan@hazmatt.com
www.hazmatt.com

Appendix B – Laboratory Analytical Reports – Tamworth Troop E Facility

1864 White Mountain Highway, Tamworth, NH 03886

NPDES Appendix III Effluent Limits

Project: NHDOT Patrol Shed Facilities, Tamworth, NH
TMC Project No.: 4009-580
Analysis: NPDES Remediation General Permit List

Sample Location		GW-1	GW-2	Tamworth GW1	Field Blank
Laboratory ID				SB09711-01	SB09711-02
Sample Date				3/25/2010	3/25/2010
EPA 1664 Rev. A (mg/l)					
TPHSGTHEM	Non-polar material (SGT-HEM)			<1.0	
EPA 200.7 (mg/l)					
7440-36-0	Antimony	0.006		0.0072	
7439-89-6	Iron			6.47	
7439-92-1	Lead	0.015		0.0425	
7440-02-0	Nickel	0.1		0.0069	
7782-49-2	Selenium	0.05		<0.0150	
7440-66-6	Zinc	5		0.0289	
7440-38-2	Arsenic	0.01		0.0084	
7440-43-9	Cadmium	0.005		<0.0025	
7440-47-3	Chromium	0.1		0.0076	
7440-50-8	Copper			0.0547	
7440-22-4	Silver	0.1		<0.0050	
EPA 245.1/7470A (mg/l)					
7439-97-6	Mercury	0.002		<0.00020	
EPA 335.4 / SW846 9012A (mg/l)					
57-12-5	Cyanide (total)	0.2		<0.00500	
EPA 504.1 (µg/l)					
106-93-4	1,2-Dibromoethane (EDB)	0.02	2	<0.0100	
EPA 608 (µg/l)					
12674-11-2	Aroclor-1016			<0.0650	
11104-28-2	Aroclor-1221			<0.0650	
11141-16-5	Aroclor-1232			<0.0650	
53469-21-9	Aroclor-1242			<0.0650	
12672-29-6	Aroclor-1248			<0.0650	
11097-69-1	Aroclor-1254			<0.0650	
11096-82-5	Aroclor-1260			<0.0650	
37324-23-5	Aroclor-1262			<0.0650	

11100-14-4	Aroclor-1268			<0.0650		
Hach 8167 (mg/l)						
7782-50-5	Total Residual Chlorine			<0.200		
SM2540D (mg/l)						
TSS	Total Suspended Solids			168		
SW846 7196A/SM3500CrD (mg/l)						
18540-29-9	Hexavalent Chromium			<0.025	R01	
SW846 8260B (µg/l)						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)			<1.0		
67-64-1	Acetone	6300	50000	<10.0		<10.0
71-43-2	Benzene	5	2000	<1.0		<1.0
56-23-5	Carbon tetrachloride	5	2	<1.0		<1.0
106-93-4	1,2-Dibromoethane (EDB)	0.02	2	<0.5		<0.5
95-50-1	1,2-Dichlorobenzene	600	2000	<1.0		<1.0
541-73-1	1,3-Dichlorobenzene	40	2000	<1.0		<1.0
106-46-7	1,4-Dichlorobenzene	5	200	<1.0		<1.0
75-34-3	1,1-Dichloroethane	70	1000	<1.0		<1.0
107-06-2	1,2-Dichloroethane	5	5	<1.0		<1.0
75-35-4	1,1-Dichloroethene	7	80	<1.0		<1.0
156-59-2	cis-1,2-Dichloroethene	70	100	<1.0		<1.0
100-41-4	Ethylbenzene	700	20000	<1.0		<1.0
1634-04-4	Methyl tert-butyl ether	70	50000	<1.0		<1.0
75-09-2	Methylene chloride	5	10000	<2.0		<2.0
91-20-3	Naphthalene	140	1000	<1.0		<1.0
127-18-4	Tetrachloroethene	5	50	<1.0		<1.0
108-88-3	Toluene	1000	50000	<1.0		<1.0
71-55-6	1,1,1-Trichloroethane	200	4000	<1.0		<1.0
79-00-5	1,1,2-Trichloroethane	5	900	<1.0		<1.0
79-01-6	Trichloroethene	5	30	<1.0		<1.0
75-01-4	Vinyl chloride	2	2	<1.0		<1.0
179601-23-1	m,p-Xylene			<2.0		<2.0
95-47-6	o-Xylene			<1.0		<1.0
994-05-8	Tert-amyl methyl ether			<1.0		<1.0
75-65-0	Tert-Butanol / butyl alcohol			<10.0		<10.0
123-91-1	1,4-Dioxane	3	6000	<20.0		<20.0
SW846 8270C (µg/l)						
83-32-9	Acenaphthene	20		<5.10		

208-96-8	Acenaphthylene	30		<5.10
62-53-3	Aniline			<5.10
120-12-7	Anthracene	60		<5.10
1912-24-9	Atrazine			<5.10
103-33-3	Azobenzene/Diphenyldiazine			<5.10
92-87-5	Benzidine			<5.10
56-55-3	Benzo (a) anthracene	1		<5.10
50-32-8	Benzo (a) pyrene	0.2		<5.10
205-99-2	Benzo (b) fluoranthene	1		<5.10
191-24-2	Benzo (g,h,i) perylene	50		<5.10
207-08-9	Benzo (k) fluoranthene	1		<5.10
65-85-0	Benzoic acid			<5.10
100-51-6	Benzyl alcohol			<5.10
111-91-1	Bis(2-chloroethoxy)methane			<5.10
111-44-4	Bis(2-chloroethyl)ether	30	30	<5.10
108-60-1	Bis(2-chloroisopropyl)ether			<5.10
117-81-7	Bis(2-ethylhexyl)phthalate	6	50000	<5.10
101-55-3	4-Bromophenyl phenyl ether			<5.10
85-68-7	Butyl benzyl phthalate			<5.10
86-74-8	Carbazole			<5.10
59-50-7	4-Chloro-3-methylphenol			<5.10
106-47-8	4-Chloroaniline	20	50000	<5.10
91-58-7	2-Chloronaphthalene			<5.10
95-57-8	2-Chlorophenol	10		<5.10
7005-72-3	4-Chlorophenyl phenyl ether			<5.10
218-01-9	Chrysene	2		<5.10
53-70-3	Dibenzo (a,h) anthracene	0.5		<5.10
132-64-9	Dibenzofuran			<5.10
95-50-1	1,2-Dichlorobenzene	600	2000	<5.10
541-73-1	1,3-Dichlorobenzene	40	2000	<5.10
106-46-7	1,4-Dichlorobenzene	5	200	<5.10
91-94-1	3,3'-Dichlorobenzidine	80		<5.10
120-83-2	2,4-Dichlorophenol	10	30000	<5.10
84-66-2	Diethyl phthalate	2000	50000	<5.10
131-11-3	Dimethyl phthalate	30000	50000	<5.10
105-67-9	2,4-Dimethylphenol	60	40000	<5.10
84-74-2	Di-n-butyl phthalate			<5.10
534-52-1	4,6-Dinitro-2-methylphenol			<5.10
51-28-5	2,4-Dinitrophenol	200	50000	<5.10
121-14-2	2,4-Dinitrotoluene	30	20000	<5.10
606-20-2	2,6-Dinitrotoluene			<5.10
117-84-0	Di-n-octyl phthalate			<5.10

206-44-0	Fluoranthene	90		<5.10
86-73-7	Fluorene	30		<5.10
118-74-1	Hexachlorobenzene	1	1	<5.10
87-68-3	Hexachlorobutadiene	0.6	1	<5.10
77-47-4	Hexachlorocyclopentadiene			<5.10
67-72-1	Hexachloroethane	8	100	<5.10
193-39-5	Indeno (1,2,3-cd) pyrene	0.5		<5.10
78-59-1	Isophorone			<5.10
91-57-6	2-Methylnaphthalene	10	2000	<5.10
95-48-7	2-Methylphenol			<5.10
108-39-4, 106-44-5	3 & 4-Methylphenol			<10.2
91-20-3	Naphthalene	140	1000	<5.10
88-74-4	2-Nitroaniline			<5.10
99-09-2	3-Nitroaniline			<5.10
100-01-6	4-Nitroaniline			<20.4
98-95-3	Nitrobenzene			<5.10
88-75-5	2-Nitrophenol			<5.10
100-02-7	4-Nitrophenol			<20.4
62-75-9	N-Nitrosodimethylamine			<5.10
621-64-7	N-Nitrosodi-n-propylamine			<5.10
86-30-6	N-Nitrosodiphenylamine			<5.10
87-86-5	Pentachlorophenol	1		<20.4
85-01-8	Phenanthrene	40		<5.10
108-95-2	Phenol	1000	50000	<5.10
129-00-0	Pyrene	80		<5.10
110-86-1	Pyridine			<5.10
120-82-1	1,2,4-Trichlorobenzene	70	2000	<5.10
90-12-0	1-Methylnaphthalene			<5.10
95-95-4	2,4,5-Trichlorophenol	200	50000	<5.10
88-06-2	2,4,6-Trichlorophenol	10	5000	<5.10
82-68-8	Pentachloronitrobenzene			<5.10
95-94-3	1,2,4,5-Tetrachlorobenzene			<5.10

Report Date:
29-Mar-10 14:06

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

TMC Services, Inc.
One William Way
Bellingham, MA 02019
Attn: Brandon Fagan

Project: 1864 White Mtn. Hwy - Tamworth, NH
Project #: 4009-580

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB09711-01	Tamworth GW1	Ground Water	25-Mar-10 11:52	25-Mar-10 17:46
SB09711-02	Field Blank	Aqueous	25-Mar-10 00:00	25-Mar-10 17:46

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 25 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.