7/29/11
received

Town of Winchester
Water Pollution
Control Facility
64 Duso Road
Winchester, NH 03470
NPDES Permit # NHG580404

Town Hall
Sherm Tedford– Chairman
Board of Selectmen
1 Richmond Road
Winchester, NH 03470

Facility Phone: (603) 239-4132
Facility Fax: (603) 239-6346

U.S. EPA –New England, Region 1
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, Massachusetts, 02114-2023

July 19, 2011

Re: Request for authorization to discharge under New Hampshire General Permit NHG580000, Part II.A

Dear Sir:

This letter is requesting authorization for the Winchester, New Hampshire Wastewater Treatment Facility to discharge under New Hampshire General Permit NHG580000, Part II.A. The Winchester Wastewater Treatment Facility discharges to a receiving water within the Connecticut River watershed. The discharge at this plant meets the applicable requirements of the POTW GP for the State of New Hampshire. If you have any Questions concerning this request please contact me at 603-239-4132.

Respectfully,

Richard Meleski – Plant Manager – Winchester WWTF
Cc:
Amy Clark, DES
Sherm Tedford – Chairman, Board of Selectman – Town of Winchester
Plant File

TOWN OF WINCHESTER

INCORPORATED JULY 2ND 1753

1 Richmond Road • Winchester, New Hampshire 03470
Voice: (603) 239-4951 • Fax: (603) 239-4710 • TDD Access: Relay NH 1-800-735-2964
selectmen@winchester.nh.gov • www.winchester-nh.gov

March 24, 2010

United States Environmental Protection Agency
Region 1
Attn: Mr. Brian Pitt Acting Chief
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: Town of Winchester Publicly Owned Treatment Works
General NPDES Permit No. NHG580404-Winchester Wastewater Treatment Facility

Dear Mr. Pitt:

We are in receipt of your letter dated March 19, 2010, addressed to John Stetser, Town Manager. In 2008 the people of Winchester voted to discontinue the town manager form of government and Mr. Stetser left the employ of the Town in April 2008.

Please update your records for future correspondence as follows:

Town of Winchester
Board of Selectmen
1 Richmond Road
Winchester, NH 03470

Thank you for your prompt attention to this matter.

Sincerely,

Robert Gray
Town Administrator
Ext. 111

RG:eac

cc: Board of Selectmen
Rick Meleski, Wastewater Superintendent

for Rik Meleshe

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 19, 2010

John H. Stetser, Town Manager
64 Duso Road
Winchester, New Hampshire 03470

Re: Publicly Owned Treatment Works General NPDES Permit No. NHG580404-
Winchester Wastewater Treatment Facility

Dear Mr. Stetser:

This letter acknowledges your submittal of a Notice of Intent (NOI), dated February 19, 2010, for coverage under the Publicly Owned Treatment Works General NPDES Permit (POTW GP) No. NHG580404. Your NOI has been received and reviewed by this office. The information submitted appears to be complete and will be kept at our offices until such a time as the POTW GP is reissued. Since you submitted a timely and complete NOI, coverage of the discharge from your facility under the current POTW GP is administratively continued until a new permit is issued, in accordance with the Administrative Procedure Act (5 U.S.C. 558(c)) and 40 CFR §122.6. Please be advised that upon reissuance of the POTW GP, an NOI for coverage will need to be submitted in accordance with the notification requirements of that permit.

Please note that should you make any change to you processes that you believe may affect your coverage under the final permit, please contact Meridith Timony of my staff at (617) 918-1533 to discuss those changes.

Sincerely,

Brian Pitt, Acting Chief
NPDES Municipal Permits Branch
Office of Ecosystem Protection

Enclosures:

cc: Daniel Dudley, New Hampshire Department of Environmental Services

The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Thomas S. Burack, Commissioner

January, 14, 2009

Rick Meleski, Chief Operator
Winchester WWTF
P.O. Box 25
Winchester, New Hampshire 03470

Re: Winchester WWTF
Notice of Intent Requirements for NPDES General Permit NHG580404

Dear Mr. Meleski:

This is to follow up on our telephone conversation regarding the POTW General Permit, and the Notice of Intent (NOI) required by EPA's letter dated September 24, 2009 (copy attached). Part III.M.2.h (page 41) of the general permit requires that the Town confirm certain information with the New Hampshire Department of Environmental Services (NHDES) prior to submitting the NOI. Accordingly, NHDES is providing the following information for use in completing the NOI form:

NOI Part	Description	Value
A4.	Treatment Plant Design Flow	0.28 mgd
B2.	Annual 7Q10 Stream Flow	40.9
B3.	Dilution Factor	86
B7.	Monthly Average Total Residual Chlorine Limit	0.95 mg/l
B7.	Maximum Daily Total Residual Chlorine Limit	1.0 mg/l
B8.	Is the Discharge Near a Designated Beach?	No
B10.	Monthly Average Mass TSS Limit	70 lb/day
B10.	Monthly Average Mass BOD_5 Limit	70 lb/day
B11.	Weekly Average Mass TSS Limit	105 lb/day
B11.	Weekly Average Mass BOD_5 Limit	105 lb/day
B11.	Maximum Daily Mass TSS Limit	116.8 lb/day
B11.	Maximum Daily Mass BOD_5 Limit	116.8 lb/day

You should attach a copy of this letter to your completed NOI form. Please call me at 271-0671 if you have questions.

Sincerely,

Daniel Dudley, P.E.
Sanitary Engineer
NHDES Wastewater Engineering Bureau

Enclosure: EPA letter dated September 24, 2009

cc: Brian Pitt, EPA-New England
Paul L. Heirtzler, NHDES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
1 CONGRESS STREET, SUITE 1100
BOSTON, MASSACHUSETTS 02114-2023

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 24, 2009

John H. Stetser, Town Manager
Town of Winchester
64 Duso Road
Winchester, NH 03470

RE: Reapplying under the New Hampshire General Permit for **certain** POTWs and other Treatment Works - NHG580404- Winchester Treatment Facility

Dear Mr. Stetser:

Please be advised that the General Permit for **certain** POTWs and Sanitary Wastewater Facilities in the State of New Hampshire will be expiring on September 23, 2010. This permit will be administratively continued in accordance with the Administrative Procedures Act and will remain in effect as long as a new Notice of Intent for your facility is received by March 26, 2010. Please refer to page 38, Part III.L.3, of the POTW General Permit concerning the continuation conditions and page 39, Part III.M.3, of this permit for the Notice of Intent requirements. The complete POTW General Permit is at EPA's website: http://www.epa.gov/region1/npdes/potw-gp.html .

The Notice of Intent (NOI) form to reapply for General Permit coverage is the New Hampshire Department of Environmental Services' NOI form that is available at: http://des.nh.gov/organization/divisions/water/wweb/documents/notice_of_intent_form.pdf . Please contact Dan Dudley at 603-271-0671 with any questions concerning this form.

Failure to submit the Notice of Intent by the deadline date would violate Section 301(a) of the Clean Water Act, and would render you subject to the civil and/or criminal enforcement provisions of the Act.

Should you have any questions pertaining to this matter please do not hesitate to contact me at 617/918-1545.

Sincerely,

Shelley Puleo

Shelley Puleo
Environmental Protection Specialist
Municipal Assistance Unit

cc: Dan Dudley, NHDES ✓

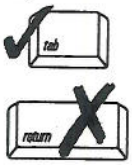
NOTICE OF INTENT
FOR
N.H. GENERAL PERMIT #NHG580000

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

For Coverage Under the NPDES General Permit for Publicly Owned Treatment Works (POTWs) and Other Treatment Works Treating Domestic Sewage With Dilution Factors Greater than Fifty

Instructions

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Submission of this Notice of Intent (NOI) constitutes notice that the entity named at item A1. of this form intends to be covered by the NPDES General Permit for POTWs and Other Treatment Works Treating Domestic Sewage (TWTDS) issued by EPA, in the location identified at item A1. of this form. Submission of the Notice of Intent also constitutes notice that the party identified at item A1. has read, understands and meets the eligibility conditions of Part III.K. of the NPDES General Permit for POTWs and Other TWTDS, agrees to comply with all applicable terms and conditions of the permit, and understands that continued authorization to discharge is contingent on maintaining eligibility for coverage.

In order to be granted coverage, all information required on this Notice of Intent form must be completed. A facility that fails to submit an NOI and/or receive written notification of permit coverage from EPA-New England is not authorized to discharge under this general permit. Please read the permit and make sure you comply with all requirements, including the requirement to contact the NH Department of Environmental Services (DES) prior to filling out this NOI. (Please contact Dan Dudley, (603) 271-0671, or Susan Willoughby (603) 271-3307 at DES.) The NOI instructions applicable to New Hampshire facilities begin on page 40 of the general permit.

Part A. Basic Application Information

A1. Facility Information:

Town of Winchester Wastewater Treatment Facility — Facility Name
NHG580404 — NPDES Permit Number
1 Richmond Road, Winchester, N.H. 03470 — Mailing Address
Richard Meleski / Plant Manager — Contact and Title
603-239-4132 — Telephone
sewerdept@winchester.nh.gov — E-mail (if available)
64 Duso Road, Winchester, N.H. 03470 — Facility Address

A2. Applicant Information (if different than above)

Applicant Name

Mailing Address

Contact and Title | Telephone | E-mail (if available)

Is the applicant the owner or operator (or both) of the POTW? x Owner ☐ Operator ☐ Both

A3. Facility Status: ☐ Major x Minor

A4. Flow Information:

Permitted Design Flow 0.284 mgd — Any planned increase? ☐ Yes x No

Average Daily Flow based on the most recent 24 months:

Actual Time Period Jan 2008 thur Dec 2009 — Average Daily Flow 0.2318 mgd

NOTICE OF INTENT
FOR
N.H. GENERAL PERMIT #NHG580000

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

A5. Collection System Information:

Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each other.

x Separate sanitary sewer 100 %

☐ Combined storm and sanitary sewer _____ %

A6. Outfall Information:

Provide the latitude and longitude coordinates for each outfall.

Outfall Number	Latitude	Longitude
001	42deg.,46min. 6sec.	72deg.,23min. 29sec
_____	_____	_____
_____	_____	_____

Does this outfall have a periodic discharge? ☐ Yes x No

If yes, time period during which discharge occurs: _____ days/year

A7. Receiving Water Information:

Ashuelot River Class B
Name

A8. Treatment Facility Information:

Type of Wastewater Treatment Facility (Check only one)

Sand Filter ☐ Lagoon ☐ Others x

Type of Disinfection: Chlorination x Ultraviolet Light ☐

Current sludge use and disposal practice:

Land Application ☐ Incineration* ☐ Surface Disposal ☐

Other x Describe: Liquid hauling to Erving, Mass.

(*Note: Facilities incinerating their sludge are ineligible to receive coverage under this General Permit.)

A9. Topographic Map (For facilities with a design flow greater than or equal to 0.1 MGD)

Attach to this application a topographic map of the area showing the location of the treatment plant and all of the outfalls.

A10. Process Flow Diagram (For facilities with a design flow greater than or equal to 0.1 MGD)

Provide a diagram or schematic showing the processes of the treatment plant from the headworks to the outfall(s) and including any bypass piping.

NOTICE OF INTENT
FOR
N.H. GENERAL PERMIT #NHG580000

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

Part B. Applicable Limits Information

B1. Type of Receiving Water (Check One):

x Freshwater – Permit Part II.A. is applicable.

☐ Marine Waters – Permit Part II.B. is applicable.

Dischargers to freshwater must answer "N/A" to questions B4 through B6 below

Dischargers to marine waters must answer "N/A" to questions B7 through B8 below

B2. 7Q10 (freshwater only) 40.90cfs **(Contact DES for this information)**

B3. Dilution Factor: 86 **(Contact DES for this information)**

B4. Do you discharge to marine waters used for swimming purposes? **(Contact DES for this information)**

☐ Yes Limits for Enterococci are found in Part II.B. of the general permit

☐ No Reporting for Enterococci are found in Part II.B. of the general permit

x N/A

B5. Choose one set of bacteria limits for the protection of the shellfishing use:

☐ Total Coliform - Limits for Total Coliform are found in Part II.B. of the general permit

☐ Fecal Coliform - Limits for Fecal Coliform are found in Part II.B. of the general permit

X N/A

B6. Chlorine limits for discharges to marine waters (From Table C in Part II.B. of the permit)

Monthly Average Limit from Table C for dilution factor of _____ (Question B3) = _____ mg/l

Maximum Daily Limit from Table C for dilution factor of _____ (Question B3) = _____ mg/l

X N/A

B7. Chlorine limits for discharges to freshwaters (From Table C in Part II.A. of the permit)

Monthly Average Limit from Table C for dilution factor of 86 (Question B3) = 0.95 mg/l

Maximum Daily Limit from Table C for dilution factor of 86 (Question B3) = 1.0 mg/l

☐ N/A

NOTICE OF INTENT
FOR
N.H. GENERAL PERMIT #NHG580000

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

B8. Do you discharge upstream of a freshwater designated beach? **(Contact DES for this information)**

☐ Yes Escherichia coli limits for bathing beach waters are found in Part II.A. of the general permit.

x No Escherichia coli limits for non-bathing beach waters are found in Part II.A. of the general permit.

☐ N/A

B9. Choose one set of biochemical oxygen demand limits.

X BOD_5 ☐ $CBOD_5$ (Concentration limits are found in Parts II.A. and II.B. of the general permit)

B10. Monthly Average Mass TSS and BOD_5 (or $CBOD_5$) limits

Mass TSS limit = 30 mg/l x 8.34 x permitted design flow 0.28 mgd (Question A4) = 70 lbs/day

AND

Mass BOD_5 limit = 30 mg/l x 8.34 x permitted design flow 0.28 mgd (Question A4) = 70 lbs/day

OR

Mass $CBOD_5$ limit = 25 mg/l x 8.34 x permitted design flow _____ mgd (Question A4) = _____ lbs/day

B11. Weekly Average Mass TSS and BOD_5 (or $CBOD_5$) limits

Mass TSS limit = 45 mg/l x 8.34 x permitted design flow 0.28 mgd (Question A4) = 105 lbs/day

AND

Mass BOD_5 limit = 45 mg/l x 8.34 x permitted design flow 0.28 mgd (Question A4) = 105 lbs/day

OR

Mass $CBOD_5$ limit = 40 mg/l x 8.34 x permitted design flow mgd (Question A4) = _____ lbs/day

B12. Maximum Daily Mass TSS and BOD_5 (or $CBOD_5$) limits

Mass TSS limit = 50 mg/l x 8.34 x permitted design flow 0.28 mgd (Question A4) = 116.8 lbs/day

AND

Mass BOD_5 limit = 50 mg/l x 8.34 x permitted design flow 0.28 mgd (Question A4) = 116.8 lbs/day

OR

Mass $CBOD_5$ limit = 45 mg/l x 8.34 x permitted design flow _____ mgd (Question A4) = _____ lbs/day

NOTICE OF INTENT
FOR
N.H. GENERAL PERMIT #NHG580000

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

Part C. Effluent Testing for All Applicants

All applicants must provide effluent testing data for the following parameters. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least one sample collected within the past two years. All available data collected in accordance with 40 CFR Part 136 within the past year must be included.

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	# of Samples
pH* (Minimum)	6.50	s.u.			
pH* (Maximum)	7.03	s.u.			
Temperature (Winter)	14.1	Deg C	9.06	Deg C	89 days
Temperature (Summer)	21.7	Deg C	18.29	Deg C	93 days

* For pH please report a minimum and a maximum daily value

POLLUTANT		Max. Daily Value Discharge		Average Daily Value			Analytical Method	ML/MDL
		Conc.	Units	Conc.	Units	# of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS								
BIOCHEMICAL OXYGEN DEMAND (Report one)	BOD5	5.64	mg/l	4.30	mg/l	8	5210B	
	CBOD5		mg/l		mg/l			
BACTERIA (Report all that are applicable)	Fecal Coliform		cts/ 100ml		cts/ 100ml			
	Total Coliform		cts/ 100ml		cts/ 100ml			
	E. Coli	29.9	cts/ 100ml	5.35	cts/ 100ml	13	9223B	
	Entero-cocci		cts/ 100ml		cts/ 100ml			
TOTAL SUSPENDED SOLIDS (TSS)		8.6	mg/l	4.13	mg/l	8	2540D	

NOTICE OF INTENT
FOR
N.H. GENERAL PERMIT #NHG580000

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

Part D. Effluent Testing for Applicants with Design Q ≥ 0.1 mgd Only

If the treatment works has a design flow greater than or equal to 0.1 mgd then provide effluent testing data for the following parameters. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least one sample collected within the past two years. All available data collected in accordance with 40 CFR Part 136 within the past two years must be included.

POLLUTANT	Max. Daily Value		Average Daily Value			Analytical Method	ML/MDL
	Conc.	Units	Conc.	Units	# of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS							
AMMONIA (as N)	0.13	mg/l		mg/l	1	4500NH3D	
CHLORINE (TOTAL RESIDUAL, TRC)	0.87	mg/l	0.16	mg/l	30	4500-CLG	
DISSOLVED OXYGEN	7.6	mg/l		mg/l	1	4500O-G	
TOTAL KJELDAHL NITROGEN (TKN)	0.7	mg/l		mg/l	1	4500NorgC	
NITRATE PLUS NITRITE	7.9 <0.5	mg/l		mg/l	1	353.2	
OIL and GREASE	<5	mg/l		mg/l	1	1664A	
TOTAL PHOSPHORUS	1.2	mg/l		mg/l	1	365.3	
TOTAL DISSOLVED SOLIDS (TDS)	230	mg/l		mg/l	1	2540C	
OTHER*							

*Report any additional parameters requested by EPA or DES here

NOTICE OF INTENT
FOR
N.H. GENERAL PERMIT #NHG580000

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

Part E. Effluent Testing for Applicants with Design Q ≥ 1.0 mgd Only

E1. Parameters in Table 2 of Appendix J of 40 CFR 122

If the treatment works has a design flow greater than or equal to 1.0 mgd then provide effluent testing data for the parameters in Table 2 of Appendix J of 40 CFR 122. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least one pollutant scan collected within the past two years. All available data collected in accordance with 40 CFR Part 136 within the last two years must be included.

Attach the results from your contract laboratory to this Notice of Intent and include the following:

POLLUTANT	MAXIMUM DAILY VALUE				AVERAGE DAILY VALUE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	# of Samples		

E2. Whole Effluent Toxicity Test Results

If the treatment works has a design flow greater than or equal to 1.0 mgd then provide the results of at least one multiple species (minimum of two species) acute whole effluent toxicity test performed on a sample of the effluent collected within the last two years. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136. If you have already submitted the information requested in this part you do not need to submit it again but you must provide the date it was submitted and a brief summary of the results (LC50 endpoints).

Attach the results from your contract laboratory to this Notice of Intent and include the following:

a. Description of sample collection procedures (grab or 24-hour composite), site description;

b. Names of individuals collecting and transporting samples, times and dates of sample collection and analysis on chain of custody; and

c. General description of tests: age of test organisms, origin, dates and results of standard toxicant tests; light and temperature regime; other information on test conditions if different than procedures recommended. Reference toxicity test data must be included.

d. Raw data and bench sheets.

e. All chemical/physical data generated. (Include minimum detection levels and minimum quantification levels).

f. Provide a description of dechlorination procedures (as applicable).

g. Any other observations or test conditions affecting test outcome.

h. Statistical tests used to calculate endpoints.

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

Part F. Eligibility

F1. Any facility seeking coverage under this general permit must certify in its NOI that each discharge for which it is seeking coverage meets one or more of the National Historic Preservation Act (NHPA) eligibility criteria in Attachment C to the permit

Does each discharge meet one or more of the NHPA eligibility criteria? xYes ☐ No

Attach all documentation necessary to support the eligibility demonstration.

Was the State Historic Preservation Officer or Tribal Historic Preservation Officer involved in the determination of eligibility? xYes ☐ No

F2. For coverage under this general permit, a facility with a discharge outside the areas identified in Part III.K.4.b and currently covered under an individual NPDES permit can meet the ESA eligibility criteria by providing the individual NPDES permit number and certifying that the discharge is not in proximity to a dwarf wedgemussel or shortnose sturgeon population. Does your facility meet these criteria? xYes ☐ No

Attach any documentation to support this determination.

Any other facility seeking coverage under this general permit, including facilities discharging or proposing to discharge into the areas identified in Part III.K.4.b, must certify in this NOI that each discharge for which it is seeking coverage meets one or more of the Endangered Species Act eligibility criteria in Attachment D to the permit.

Have the Endangered Species Act eligibility criteria been met? xYes ☐ No

Attach all documentation necessary to support the eligibility demonstration.

Part G. Certification

The Notice of Intent must be signed in accordance with the signatory requirements of 40 CFR§122.22, including the following certification (*Original Signature Required*):

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Richard Meleski / Plant Manager
Printed Name and Official Title

Signature

7/19/11
Date Signed

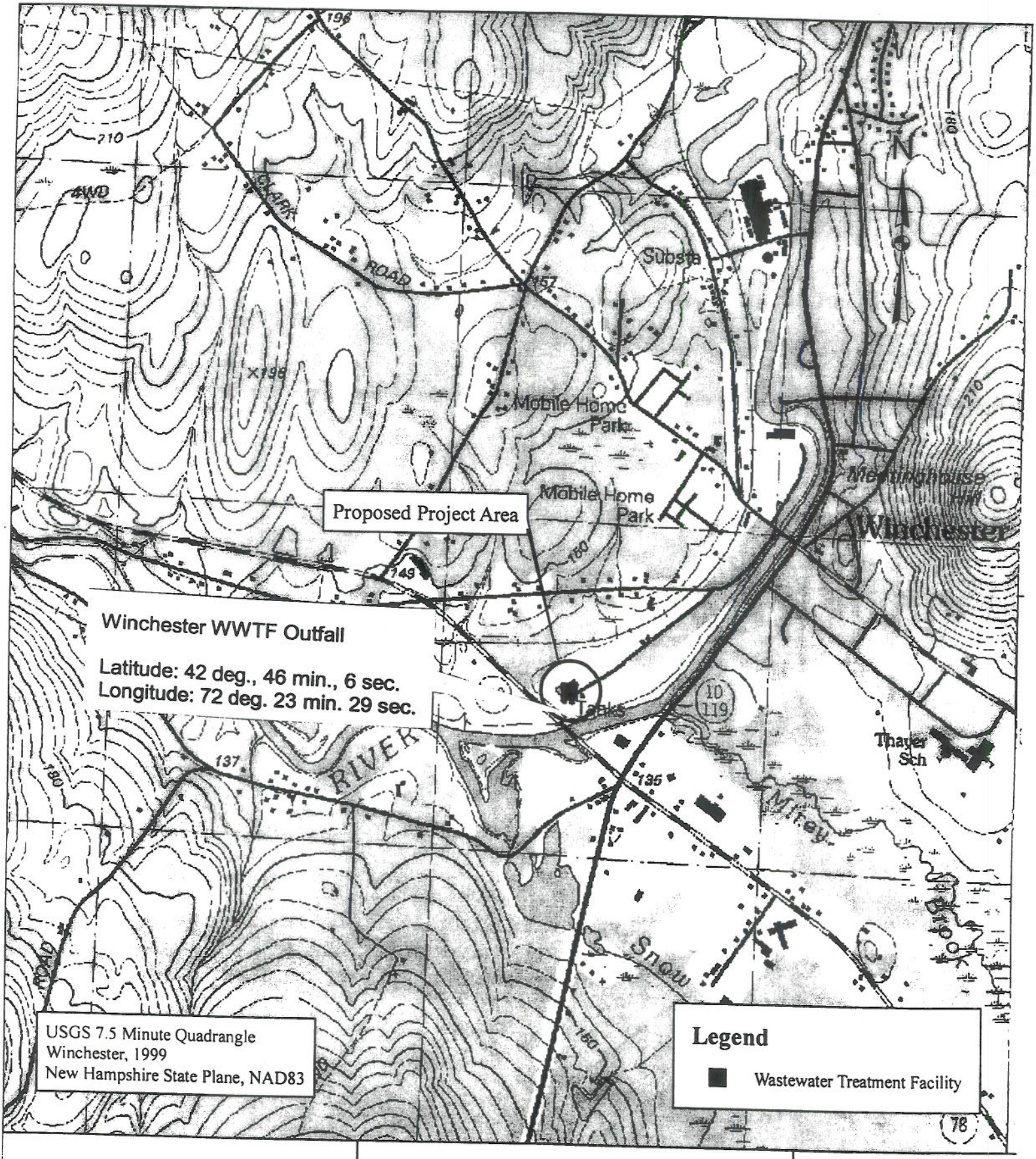
603-239-4132
Telephone Number

H. Federal and State Addresses

This Notice of Intent must be sent to the U.S. Environmental Protection Agency with a copy to the New Hampshire Department of Environmental Services at the addresses listed below. Applications are due at least 180 days before the expiration date of the existing NPDES permit.

1. U.S. EPA - New England, Region I
   Municipal Assistance Unit (CMU)
   1 Congress Street, Suite 1100
   Boston, Massachusetts 02114-2023

2. N.H. Department of Environmental Services
   Water Division, Wastewater Engineering Bureau
   Permits and Compliance Section
   29 Hazen Drive – PO Box 95
   Concord, New Hampshire 03302-0095



TATA & HOWARD

INCORPORATED

Date: April 2009 Scale: 1:15,000

Locus Map

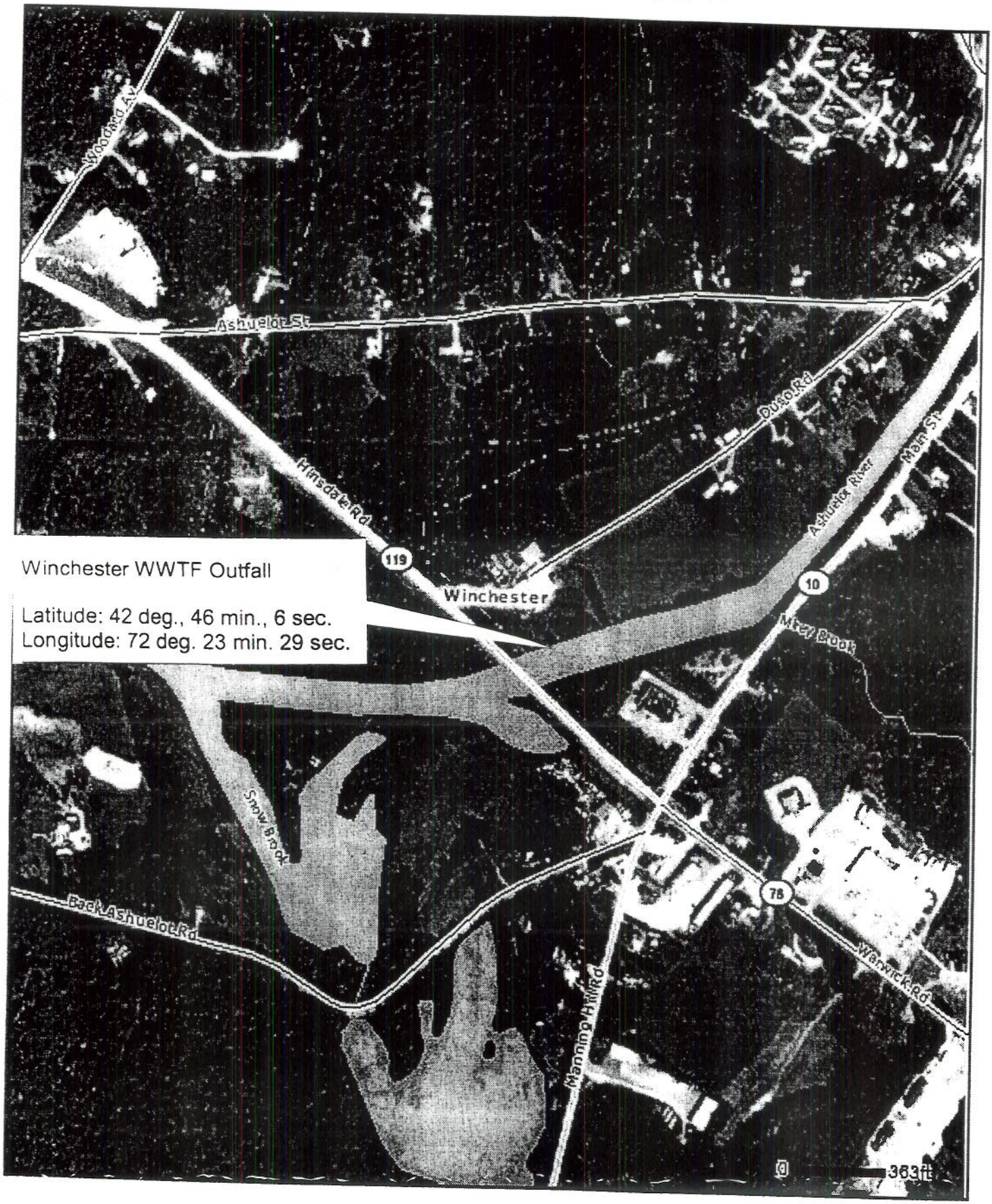
Wastewater Treatment Facility Upgrades
CWSRF ARRA Application
Winchester, New Hampshire

Figure No.

1

NH GRANIT DATA MAPPER

Base Map: Winchester WWTF

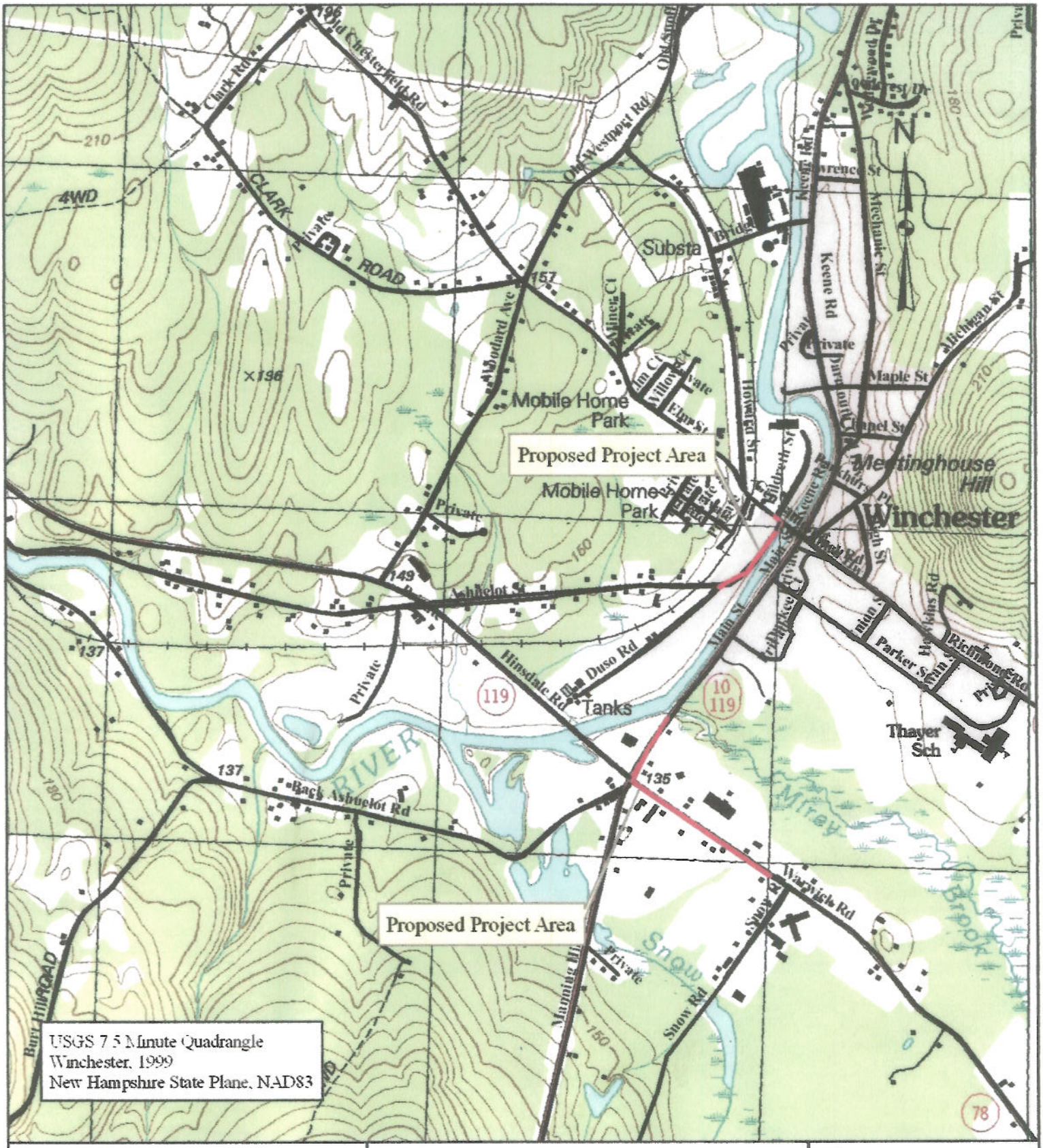


Winchester WWTF Outfall

Latitude: 42 deg., 46 min., 6 sec.
Longitude: 72 deg. 23 min. 29 sec.

USGS **Not found** Not found

Image courtesy of the U.S. Geological Survey
© 2004 Microsoft Corporation. **Terms of Use** **Privacy Statement**



TATA & HOWARD

INCORPORATED

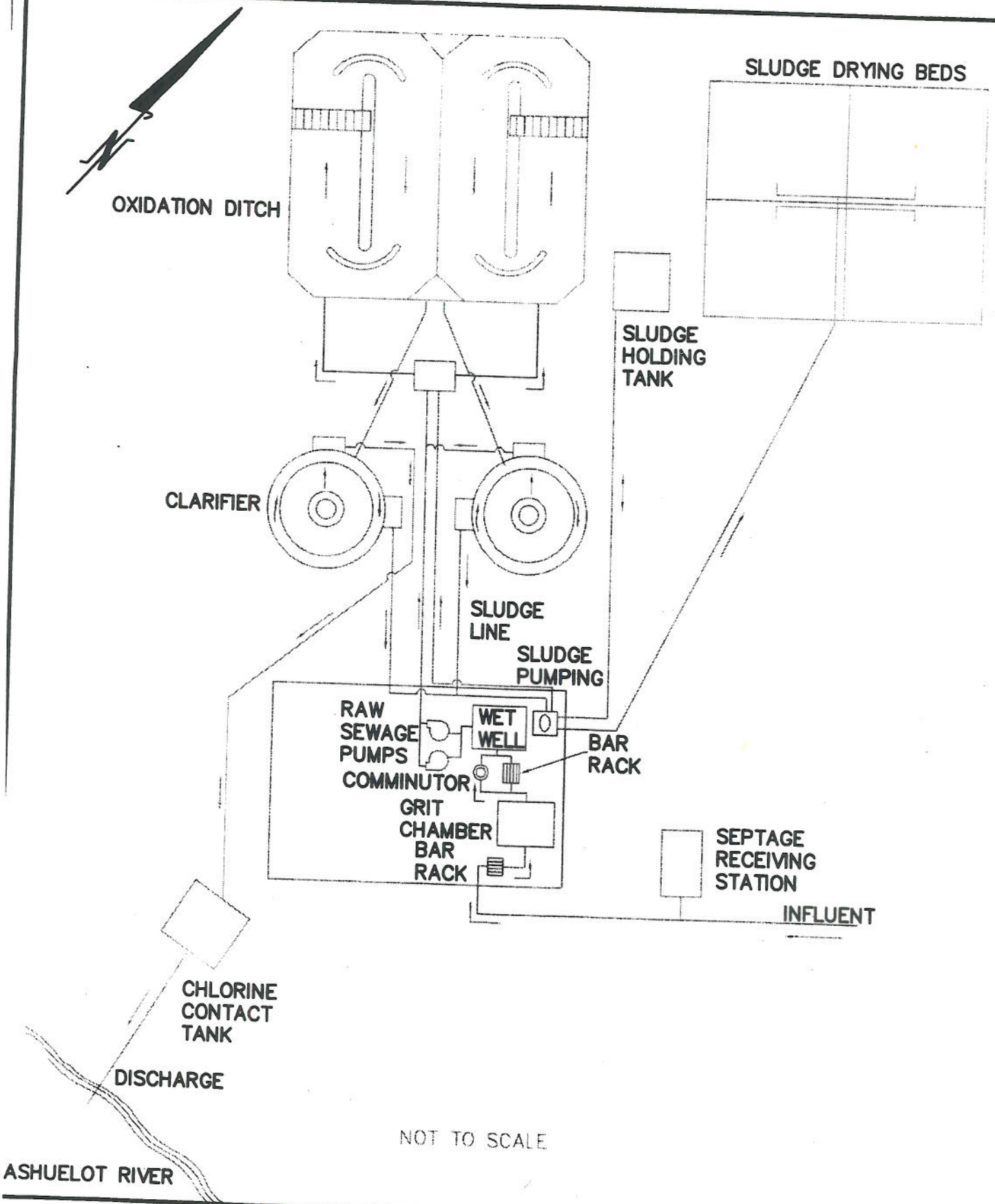
Date September 2009 Scale 1 15,000

Locus Map

Priority I Repair/Rehabilitation
of the Sewer Collection System
Winchester, New Hampshire

Figure No.

1



TATA & HOWARD
INCORPORATED
Consulting Engineers
125 Turnpike Road Westborough, MA

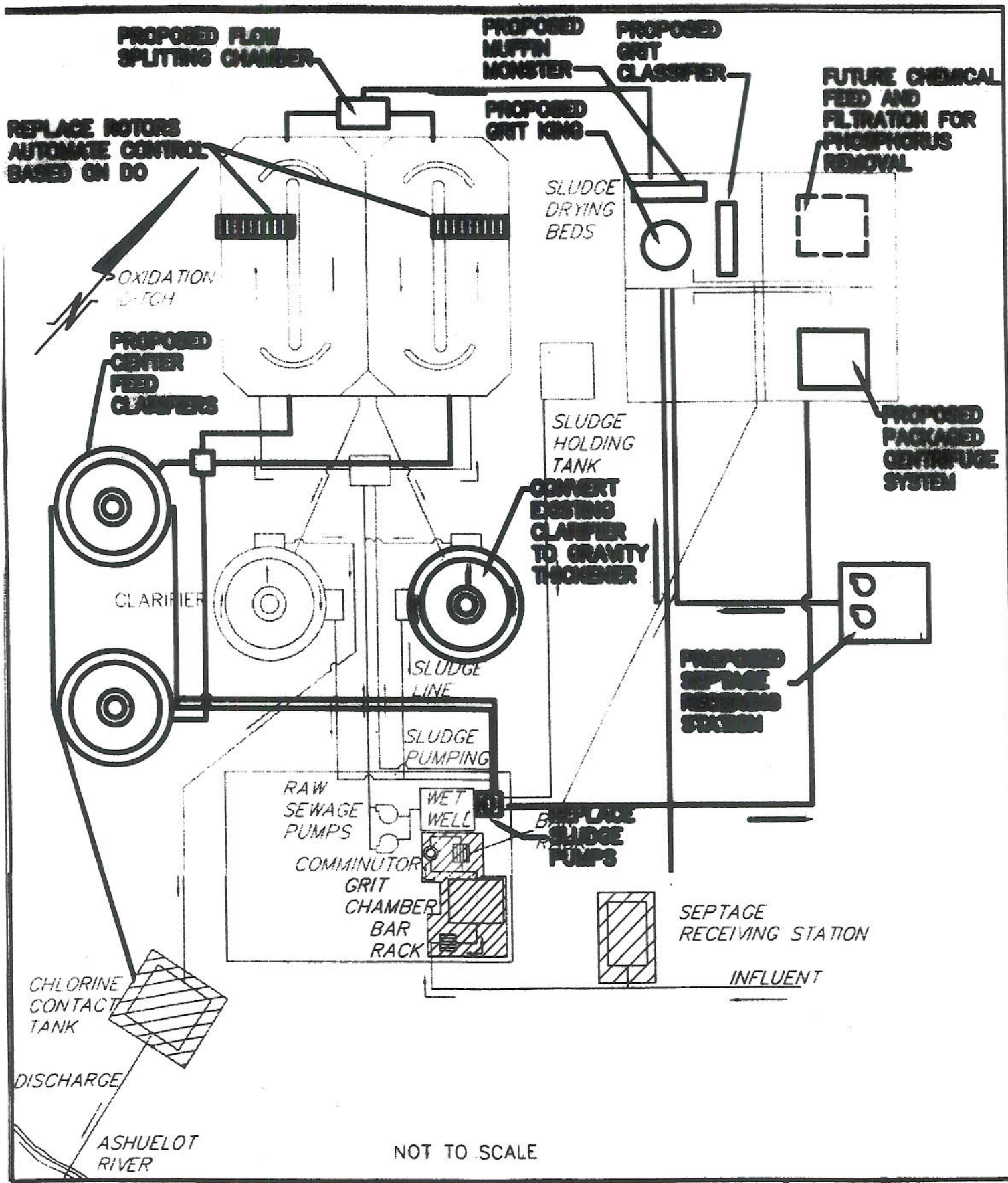
Flow Schematic

Wastewater Treatment Facility

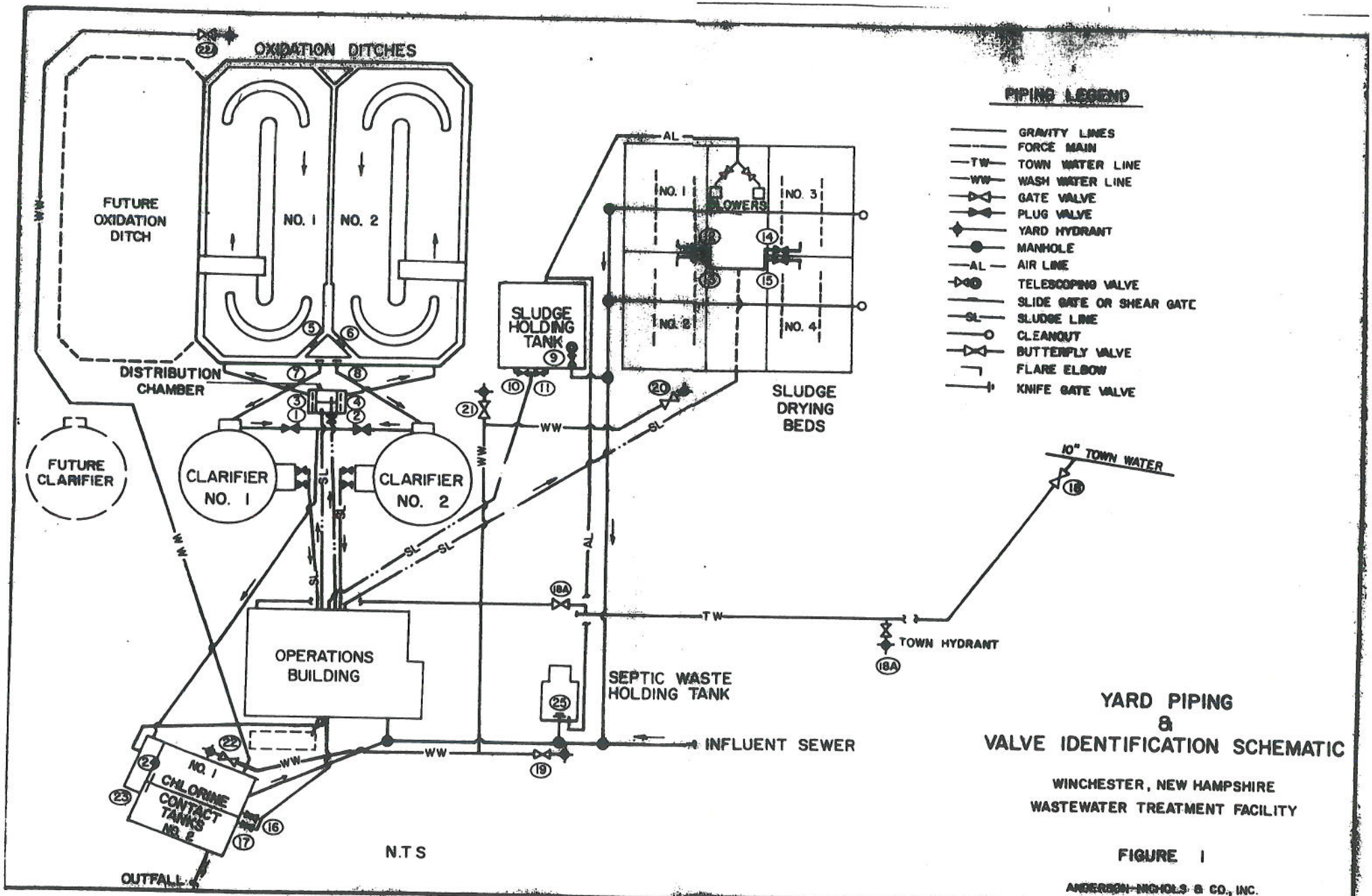
Winchester, New Hampshire

Drawing No.

1-2



TATA & HOWARD INCORPORATED Consulting Engineers 125 Turnpike Road Westborough, MA	Proposed Flow Schematic Wastewater Treatment Facility Winchester, New Hampshire	Drawing No. 6-1



YARD PIPING & VALVE IDENTIFICATION SCHEMATIC

WINCHESTER, NEW HAMPSHIRE
WASTEWATER TREATMENT FACILITY

FIGURE 1

ANDERSON-NICHOLS & CO., INC.

Winchester Wastewater Treatment Facilitty
Winchester, NH

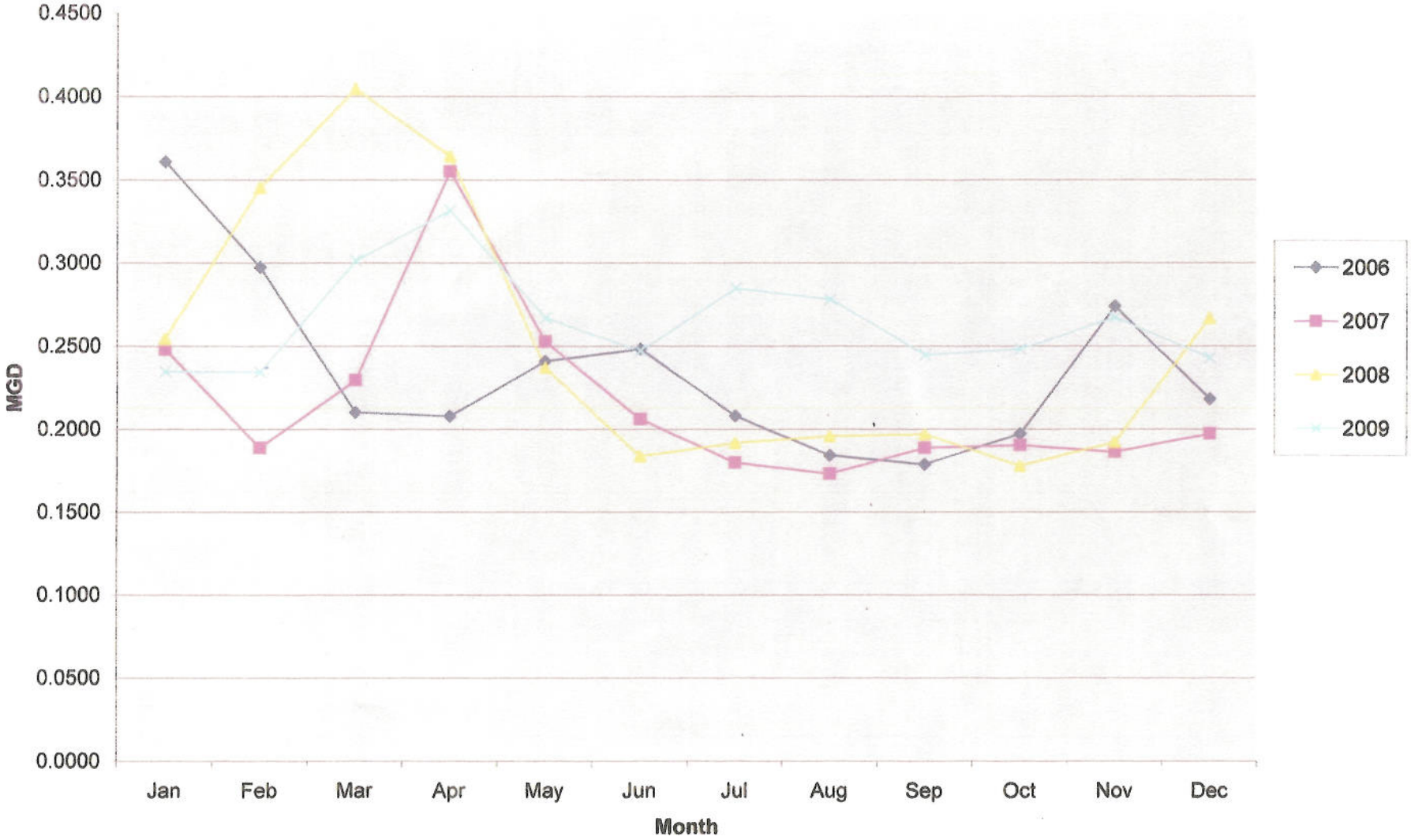
Influent Flow Records (MGD)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2006	0.3609	0.2974	0.2102	0.2079	0.2411	0.2484	0.2081	0.1841	0.1787	0.1972	0.2740	0.2183
2007	0.2480	0.1887	0.2297	0.3550	0.2529	0.2061	0.1798	0.1731	0.1888	0.1903	0.1862	0.1972
2008	0.2543	0.3452	0.4044	0.3641	0.2372	0.1836	0.1916	0.1958	0.1970	0.1778	0.1921	0.2667
2009	0.2348	0.2345	0.3014	0.3316	0.2667	0.2473	0.2849	0.2782	0.2448	0.2484	0.2672	0.2432
2010												
Annual Influent Average	0.2745	0.2665	0.2864	0.3147	0.2495	0.2214	0.2161	0.2078	0.2023	0.2034	0.2299	0.2314

Effluent Flow Records (MGD)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2006	0.3500	0.2848	0.1986	0.1864	0.2343	0.2390	0.1917	0.1690	0.1638	0.1810	0.2607	0.2095
2007	0.2408	0.1783	0.2201	0.3327	0.2377	0.1976	0.1764	0.1617	0.1692	0.1726	0.1696	0.1849
2008	0.2449	0.3339	0.3864	0.3304	0.2132	0.1528	0.1701	0.1723	0.1725	0.1512	0.1716	0.2478
2009	0.2145	0.2054	0.2651	0.2939	0.2416	0.2253	0.2556	0.2541	0.2012	0.2152	0.2316	0.2118
2010												
Annual Effluent Average	0.2626	0.2506	0.2676	0.2859	0.2317	0.2037	0.1985	0.1893	0.1767	0.1800	0.2084	0.2135

WasteWater Flows 2006 Thru 2009



Winchester WWTF Daily Effluent Temperture Deg C													
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	
1	9.9	10	10				17.8	17.9	18				
2	12	8.3	10				18	18.4	18				
3	10	9	12				18	18	19				
4	11	8	10				18	18.1	18.8				
5	11	10	10				19	19.1	18.8				
6	12	8	10				19	18.6	17.4				
7	12	7.4	11.5				18	17.4	16.8				
8	12	9.1	12.2				18	16.8	18.2				
9	12	9	12				18	17.5	19				
10	9.3	9	9				17	19	18				
11	10	11	11				16.4	20	17				
12	10	10	9.8				17.2	20	19				
13	10	9	8				16.1	19	19				
14	10	9	11				16	17.5	18				
15	8	11	9				17	19	17				
16	10	10	10				17.9	19	18				
17	8	8	9				18.1	19.3	17				
18	8	9	9				20	20.3	17				
19	8	10	10				19	19.9	18.1				
20	11	9					18	20.1	15.5				
21	7	12.2				19	17	21.7	17				
22	9	8.8				15.8	17	20.4					
23	9	10				16.7	18	19.3					
24	10.5	8				16.3	18	20					
25	10	8				16.7	17.1	20					
26	8	8				18.9	18.4	20					
27	10	10				16.9	18	19					
28	8	13				17.8	21	19					
29	10					17.7	20	19					
30	11					19	19	19					
31	11						20	19					

Year: 2009

Winter: December 21,2008 Thur March 19, 2009

Summer: June 21, 2009 Thur September 21, 2009

Winchester WWTF Daily Effluent Temperture Deg C													
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21												9	
22												9	
23												9	
24												11.2	
25												11	
26												14	
27												12.8	
28												14.1	
29												11	
30												14	
31												10	

Year: 2008

Monthly Operations Report
Town of WINCHESTER N.H.
Wastewater Treatment Plant

State of NH
Water Division
P.O. Box 95
Concord, NH 03301

Facility : Winchester WWTP NHG580404
Supt. : Richard M. Meleski
Month : November
Year : 2009

Date	Day of	Rain or Snow	Wastewater Flow In (MGD)				Chlorine Residua mg/l		Daily Cl_2 Average	Settleable Solids ml/l		pH Influent	pH Effluent S.U.		Sludge Processed	E-Coli #/100 ml	Total Suspended Solids mg/l		Total Suspended Solids Lbs/day		Biochemical Oxygen Demand mg/l		Biochemical Oxygen Demand Lbs/day	
	week	inches	Influent Total	Influent - GPM Minimum	Influent - GPM Maximum	Effluent Total	Sample 1	Sample 2	Sample 3	Influent	Effluent	S.U.	Sample 1	Sample 2	DryLbs/Day	Week	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
11/01/09	SUN	0	0.2976			0.2475			0.17		<0.1	6.75	6.88											
11/02/09	MON	0	0.2863			0.2391			0.06		<0.1	7.22	6.74			6.3								
11/03/09	TUE	0.00	0.2765			0.2336			0.05		<0.1	7.17	6.72			4.1	1490.00	2.60	3435.96	5.07	285.30	4.01	657.91	7.81
11/04/09	WED	0.00	0.2785			0.2279			0.11		<0.1	7.35	6.59		1192	12.0								
11/05/09	THUR	0.05	0.2714			0.2317			0.04		<0.1	7.21	6.83				1004.00	2.00	2272.53	3.87	212.10	3.87	480.08	7.48
11/06/09	FRI	0.00	0.2684			0.2312			0.11		<0.1	7.34	7.03											
11/07/09	SAT	0.00	0.2666			0.2295			0.14		<0.1	7.06	6.63											
11/08/09	SUN	0.00	0.2712			0.2293			0.16		<0.1	6.99	6.59											
11/09/09	MON	0.00	0.2619			0.2201			0.14		<0.1	7.23	6.80			2								
11/10/09	TUE	0.00	0.2584			0.2190			0.11		<0.1	7.08	6.77			3.1	552.00	3.30	1189.59	6.03	206.10	4.46	444.16	8.15
11/11/09	WED	0.00	0.2618			0.2229			0.17		<0.1	6.79	6.74			3.1								
11/12/09	THUR	0.00	0.2471			0.2010			0.04		<0.1	7.46	6.58		1282		516.00	7.30	1063.38	12.24	195.52	3.40	402.93	5.70
11/13/09	FRI	0.35	0.2696			0.2367			0.07		<0.1	7.15	6.95											
11/14/09	SAT	0.91	0.2764			0.2498			0.06		<0.1	7.25	6.52											
11/15/09	SUN	0.00	0.2825			0.2475			0.20		<0.1	6.91	6.59											
11/16/09	MON	0.00	0.2752			0.2382			0.04		<0.1	7.11	6.74			2								
11/17/09	TUE	0.00	0.2716			0.2355			0.06		<0.1	6.94	6.82			1	4674.00	2.60	10587.28	5.11	336.73	4.05	762.74	7.95
11/18/09	WED	0.00	0.2657			0.2280			0.25		<0.1	7.17	6.75			3.1								
11/19/09	THUR	0.25	0.2658			0.2275			0.06		<0.1	6.90	6.52		1252		1628.00	8.60	3608.91	16.32	313.80	3.86	695.62	7.32
11/20/09	FRI	0.43	0.2787			0.2490			0.04		<0.1	6.93	6.63											
11/21/09	SAT	0.00	0.2820			0.2476			0.19		<0.1	6.66	6.73											
11/22/09	SUN	0.00	0.2867			0.2522			0.07		<0.1	6.76	6.55											
11/23/09	MON	0.12	0.2788			0.2509			0.05		<0.1	7.11	6.55											
11/24/09	TUE	0.00	0.2706			0.2420			0.12		<0.1	6.84	6.50				520.00	2.60	1173.54	5.25	178.33	5.64	402.46	11.38
11/25/09	WED	0.00	0.2725			0.2392			0.15		<0.1	6.83	6.72		1200	1.0								
11/26/09	THUR	0.00	0.2446			0.2189			0.17		<0.1	6.71	6.72			29.9	300.00	4.00	611.99	7.30	271.67	5.13	554.20	9.37
11/27/09	FRI	0.55	0.2376			0.2158			0.15		<0.1	7.02	6.72			1								
11/28/09	SAT	0.00	0.2388			0.2147			0.75		<0.1	6.68	6.79											
11/29/09	SUN	0.00	0.2417			0.2128			0.87		<0.1	6.77	6.84											
11/30/09	MON	0.07	0.2305			0.2075			0.06		<0.1	7.31	6.73			1								
		2.73	8.0150		Total	6.9466			4.66						4926		10684.00	33.00	23943.18	61.19	1999.55	34.42	4400.10	65.16
		0.00	0.2672		Avg.	0.2316			0.16			7.02	6.71		1232		1335.50	4.13	2992.90	7.65	249.94	4.30	550.01	8.15
					Minimum	0.2010						Minimum	6.50			2.9165		Minimum	611.99	3.87		Minimum	402.46	5.70
					Maximum	0.2522			0.87			Maximum	7.03			1.00		Maximum	10587.28	16.32		Maximum	762.74	11.38
																29.90	% Removal	99.69			% Removal	98.28		

Richard
Lab for

Split E-
11/27/0

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Winchester Wastewater Treatmen Plant
ADDRESS: 1 Richmond Road
Winchester, NH 03470

FACILITY: WINCHESTER WASTEWATER TREATMENT PLANT
LOCATION: 64 DUSO ROAD
WINCHESTER, NH 03470

ATTN: John H. Stetser

NHG580404	001A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 03470
MINOR

freshwater
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	11/01/2009	TO	11/30/2009

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
BOD, 5-day, 20 deg. C 00310 1 0 Effluent Gross	SAMPLE MEASUREMENT	8.15	11.38	lb/d	4.30	5.34	5.64	mg/l	0	02/07	24
	PERMIT REQUIREMENT	70 MO AVG	116.8 DAILY MX	lb/d	30 MO AVG	45 WKLY AVG	50 DAILY MX	mg/L		Twice Every Week	COMP24
BOD, 5-day, 20 deg. C 00310 W 0 See Comments	SAMPLE MEASUREMENT	10.38	******	lb/d	******	******	******	******	0	02/07	24
	PERMIT REQUIREMENT	105 WKLY AVG	******	lb/d	******	******	******	******		Twice Every Week	COMP24
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	6.50	******	7.03	SU	0	01/01	GR
	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	8 MAXIMUM	SU		Daily	GRAB
Solids, total suspended 00530 1 0 Effluent Gross	SAMPLE MEASUREMENT	7.65	16.32	lb/d	4.13	5.60	8.60	mg/l	0	02/07	24
	PERMIT REQUIREMENT	70 MO AVG	116.8 DAILY MX	lb/d	30 MO AVG	45 WKLY AVG	50 DAILY MX	mg/L		Twice Every Week	COMP24
Solids, total suspended 00530 W 0 See Comments	SAMPLE MEASUREMENT	10.72	******	lb/d	******	******	******	******	0	02/07	24
	PERMIT REQUIREMENT	105 WKLY AVG	******	lb/d	******	******	******	******		Twice Every Week	COMP24
E. coli, thermotol, MF, MTEC 31633 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	2.9165	******	29.90	#/100mL	0	14/30	GR
	PERMIT REQUIREMENT	******	******	******	126 MO GEO	******	406 DAILY MX	#/100mL		Three Per Week	GRAB
Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.2316	0.2522	MGD	******	******	******	******	0	99/99	RC
	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Richard Meleski / Plant MGR	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, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Richard Meleski	603-239-4132		12/10/2009
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Richard Meleski and Francis Dominick worked in Lab for month of November; all other information on cover Letter

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Winchester Wastewater Treatmen Plant
ADDRESS: 1 Richmond Road
Winchester, NH 03470

FACILITY: WINCHESTER WASTEWATER TREATMENT PLANT
LOCATION: 64 DUSO ROAD
WINCHESTER, NH 03470

ATTN: John H. Stetser

NHG580404	001A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	11/01/2009	TO	11/30/2009

DMR Mailing ZIP CODE: 03470
MINOR

freshwater
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Chlorine, total residual 50060 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	0.16	******	0.87	mg/l	0	01/01	GR
	PERMIT REQUIREMENT	******	******	******	.95 MO AVG	******	1 DAILY MX	mg/L		Daily	GRAB
BOD, 5-day, percent removal 81010 K 0 Percent Removal	SAMPLE MEASUREMENT	******	******	******	98.28	******	******	%	0	01/30	CA
	PERMIT REQUIREMENT	******	******	******	Req. Mon. DAILY MN	******	******	%		Monthly	~~GRAB~~ CA
Solids, suspended percent removal 81011 K 0 Percent Removal	SAMPLE MEASUREMENT	******	******	******	99.69	******	******	%	0	01/30	CA
	PERMIT REQUIREMENT	******	******	******	Req. Mon. DAILY MN	******	******	%		Monthly	~~GRAB~~ CA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Richard Meleski/Plant MGR	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, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Richard Meleski	603.239.4132		12/10/2009
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Richard Meleski and Francis Dominick worked in Lab for month of November; all other information on cover Letter

eastern analytical

professional laboratory services

Rick Meleski
Winchester, Town of
1 Richmond Road
Winchester , NH 03470

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 85218
Client Identification: Wastewater Treatment Plant | 5825
Date Received: 12/10/2009

Dear Mr. Meleski :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:
Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director

12.29.09
Date

4
# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 85218

Client: **Winchester, Town of** Client Designation: **Wastewater Treatment Plant | 5825**

Temperature upon receipt (°C): 1.8 **Received on ice or cold packs (Yes/No): Y**

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
85218.01	Effluent	12/10/09	12/10/09	aqueous		Adheres to Sample Acceptance Policy
85218.02	Effluent	12/10/09	12/10/09	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 85218

Client: **Winchester, Town of** Client Designation: **Wastewater Treatment Plant | 5825**

Sample ID:	Effluent
Lab Sample ID:	85218.01
Matrix:	aqueous
Date Sampled:	12/10/09
Date Received:	12/10/09

		Analysis			
	Units	Date	Time	Method	Analyst
Solids Dissolved	230 mg/L	12/15/09	9:00	2540C	SEL
Nitrite-N	< 0.5 mg/L	12/11/09	19:25	353.2	KL
Nitrate-N	7.9 mg/L	12/11/09	18:14	353.2	KL
Ammonia-N	0.13 mg/L	12/18/09	8:30	4500NH3D	SEL
TKN	0.7 mg/L	12/15/09	11:00	4500NorgC	SEL
Total Phosphorus-P	1.2 mg/L	12/11/09	16:10	365.3	JCC

Sample ID:	Effluent
Lab Sample ID:	85218.02
Matrix:	aqueous
Date Sampled:	12/10/09
Date Received:	12/10/09

		Analysis			
	Units	Date	Time	Method	Analyst
Dissolved Oxygen	7.6 mg/L	12/10/09	17:00	4500O-G	JL

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 85218

Client: **Winchester, Town of** Client Designation: **Wastewater Treatment Plant | 5825**

Sample ID:	Effluent
Lab Sample ID:	85218.01
Matrix:	aqueous
Date Sampled:	12/10/09
Date Received:	12/10/09
Units:	mg/L
Date of Extraction/Prep:	12/11/09
Date of Analysis:	12/11/09
Analyst:	JW
Method:	1664A
Dilution Factor:	1
Oil & Grease (HEM)	< 5

Page ______ of ______

CHAIN-OF-CUSTODY RECORD

85218

4

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

				VOC				SVOC					TCLP	METALS		INORGANICS								MICRO		OTHER				
SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/COMPOSITE	524.2 / 524.2 BTEX / 524.2 MTBE ONLY	8260B 624 VTICS / 1,4 DIOXANE EDB DBCP	8021B BTEX HALOS	8015B GRO MEGRO MAVPH	8270C 625 SVTICS / ABN A BN PAH	TPH8100 L1 L2	8015B DRO MEDRO MAEPH	608 PEST/PCB / PEST 8081A PCB 8082	OIL & GREASE 1664 TPH 1664	TCLP 1311 ABN METALS / VOC PEST HERB	DISSOLVED METALS (LIST BELOW)	TOTAL METALS (LIST BELOW)	TS TSS TDS SPEC. COND. (Solids Dissolved)	BR CL SO4 / NO3 NO2 NO3/NO2	BOD CBOD T. ALK.	TKN NH3 T. PHOS.	PH T. RES. CHLORINE	COD PHENOLS TOC	TOTAL CYANIDE TOTAL SULFIDE	REACTIVE CYANIDE REACTIVE SULFIDE / FLASHPOINT IGNITABILITY	T. COLIFORM E. COLI / F. COLIFORM	ENTEROCOCCI / HETEROTROPHIC PLATE COUNT	DO			# OF CONTAINERS	NOTES MEOH VIAL #
Effluent	12/9-12/10 7am-7am	WW	G									✓				✓	✓		✓										5	
Effluent	12/10 1315 (C3)	WW	G																							✓			2	

MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER

PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

PROJECT MANAGER: Rick Meleski

COMPANY: Town of Winchester WWTF

ADDRESS: 64 Durso Road (mailing) → 1 Richmond Rd.

CITY: Winchester STATE: NH ZIP: 03470

PHONE: 1-603-239-4132 EXT.:

FAX: 1-603-239-6346

E-MAIL: Sewerdept@winchester.nh.gov

SITE NAME: Wastewater treatment Plant

PROJECT #: 5825

STATE: (NH) MA ME VT OTHER:

REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:

QUOTE #: 5825 PO #:

DATE NEEDED:

TEMP. 1.8 °C

ICE? (YES) NO

QA/QC REPORTING LEVEL
A B C
OR
MA MCP
PRESUMPTIVE CERTAINTY

REPORTING OPTIONS
PRELIMS: YES OR NO
IF YES: FAX OR PDF

ELECTRONIC OPTIONS
NO FAX E-MAIL PDF EQUIS

SAMPLER(S): Francis Dominick 12/10/09

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Francis Dominick	12/10/09	1319	Norman Cain
Norman Cain	12/10/09	1610	Clen Johnson

METALS: 8 RCRA 13 PP FE, MN PB, CU

OTHER METALS:

DISSOLVED METALS FIELD FILTERED? YES NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

SITE HISTORY:

SUSPECTED CONTAMINATION:

FIELD READINGS:

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Field Office
70 Commercial Street, Suite 300
Concord, New Hampshire 03301-5087
http://www.fws.gov/northeast/newenglandfieldoffice

March 30, 2009

Reference: Project: Wastewater treatment facility upgrades; Location: Winchester, NH

Paul Sirois
Tata & Howard, Inc.
33 Main St.
Nashua, NH 03060

Dear Mr. Sirois:

This responds to your recent correspondence requesting information on the presence of federally-listed and/or proposed endangered or threatened species in relation to the proposed activity(ies) referenced above.

Based on information currently available to us, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes our review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

In order to curtail the need to contact this office in the future for updated lists of federally-listed or proposed threatened or endangered species and critical habitats, please visit the Endangered Species Consultation page on the New England Field Office's website:

www.fws.gov/northeast/newenglandfieldoffice/EndangeredSpec-Consultation.htm

In addition, there is a link to procedures that may allow you to conclude if habitat for a listed species is present in the project area. If no habitat exists, then no federally-listed species are present in the project area and there is no need to contact us for further consultation. If the above conclusion cannot be reached, further consultation with this office is advised. Information describing the nature

TATA & HOWARD
INCORPORATED

February 24, 2009

U. S. Department of the Interior
Fish & Wildlife Service
New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087

Subject: Identification of Rare and Endangered Plants and Animals
Wastewater Treatment Facility Upgrades
USDA Grant Application
Board of Selectmen
Winchester, New Hampshire

Dear Sir/Madam:

The Town of Winchester, Board of Selectmen has commenced with preparation of an application to the U.S. Department of Agriculture, Rural Development (USDA RD) for financial assistance. One of the requirements of the USDA RD is to have the U.S. Fish and Wildlife Service review the proposed project and comment on the potential impact that the project may have on any Federally listed threatened or endangered species and their habitat in accordance with Section 7 of the Endangered Species Act of 1973.

Attached herewith, please find the following:

- A narrative of the proposed project.
- A locus map of the existing wastewater treatment facility.
- A flow schematic of the proposed wastewater treatment facility upgrades.

Please review this information and provide any comments at your earliest convenience. Please contact us if you have any questions.

Sincerely,

TATA & HOWARD, INC.

Paul Sirois, P.E.
Vice President

CONSULTING ENGINEERS

MAIN OFFICE
67 Forest Street, Marlborough, MA 01752
508-303-9400 Fax: 508-303-9500

OTHER OFFICES
Lakeville, MA • Meriden, CT • Goodyear, AZ
www.tataandhoward.com

BRANCH OFFICE
33 Main Street, Nashua, NH 03060
603-883-5760 Fax: 603-883-1314

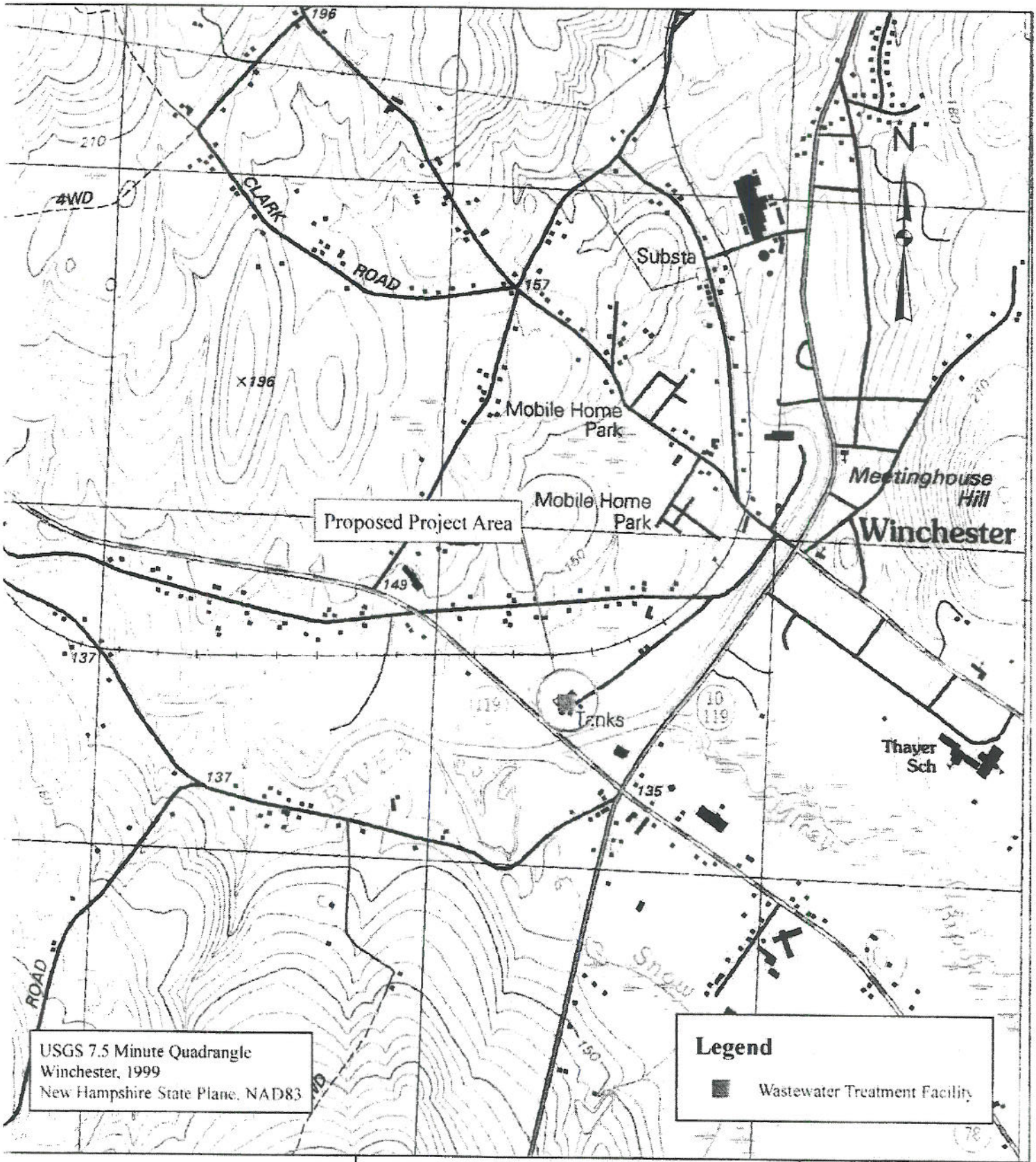
Wastewater Treatment Facility Upgrades
Project Narrative
Board of Selectmen
Winchester, New Hampshire

Project Narrative

The Town of Winchester (Town) proposes to replace and upgrade several critical unit processes within the existing Wastewater Treatment Facility (WWTF). The State of New Hampshire Department of Environmental Services (DES) issued a notification to the Town in February 2004 indicating that the Town's WWTF is approaching 80 percent of its permitted flow capacity. Tata & Howard, Inc. conducted an evaluation of the Town's existing WWTF, which included assessing the capability of each unit process to treat current and future wastewater flows, projecting future flow rates through the design year 2026, and identifying potential deficiencies based on future loading rates and upcoming National Pollutant Discharge Elimination Systems (NHDES) permit requirements. The existing activated sludge WWTF consists of a grit chamber, comminutor and bypass bar rack, raw waste feed pumps, two oxidation ditches, two clarifiers, an aerated sludge digestion tank, four drying beds, two chlorine contact tanks for disinfection and the addition of sodium bisulfate for dechlorination. Since the design and operation of each unit process has a direct impact on the size and operating performance of the WWTF, each unit process was evaluated individually. The final Wastewater Treatment Facility Evaluation dated August 2007 was prepared to assist the Town with compliance of the (NPDES) Permit for the next 20 years.

The proposed Town's WWTF upgrades include the installation of new rotors with automated controls within the oxidation ditches, installation of two (2) new center feed clarifiers with flocculators in the center well, replacement of the existing chlorination/dechlorination system with an Ultraviolet Disinfection Unit (UVDU), installation of a package centrifuge system within the existing drying bed enclosure, installation of a new generator, installation of new return activated sludge (RAS) and waste activated sludge (WAS) pumps, the purchase of new laboratory equipment and additional I/I investigations. Additional upgrades include the upgrades to the existing headworks such as a new grit removal system and grinder and the construction of a septage receiving facility onsite. These upgrades also identify the necessary improvement required to maintain the long term viability of the wastewater treatment facility processes.

The existing WWTF is located in Winchester, NH at 64 Duso Road. Please refer to the attached Figure No. 1. It should be noted that this proposed project will have limited impact to the surrounding area, for the proposed work is to be conducted on existing structures and sites. No long term impacts are anticipated, therefore mitigation measures beyond upgrading the existing facility will not be required.



TATA & HOWARD

INCORPORATED

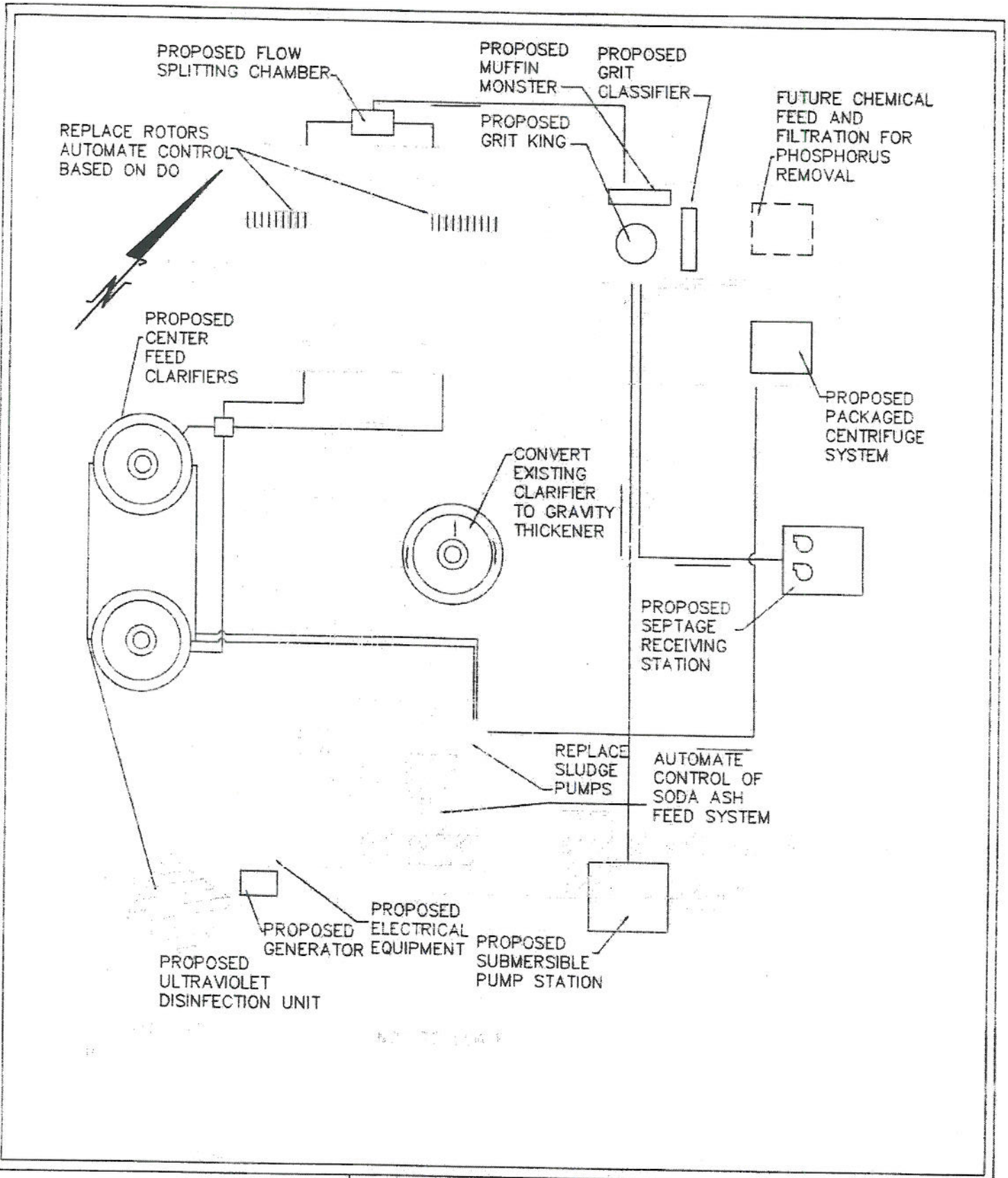
Date: February 2009 Scale: 1:15,000

Locus Map

Wastewater Treatment Facility Upgrades
USDA Grant Application
Winchester, New Hampshire

Figure No.

1



TATA & HOWARD INCORPORATED Consulting Engineers 33 Main Street Nashua, NH	Proposed Flow Schematic Wastewater Treatment Facility Upgrades Town of Winchester, New Hampshire	Drawing No. 2 Scale: NOT TO SCALE Date: FEBRUARY 2009

FILE

DHR Use Only	
R&C #	908
Log In Date	5/1/09
Response Date	5/6/09
Sent Date	5/7/09

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED MAY 01 2009

Request for Project Review by the New Hampshire Division of Historical Resources

Please see our web site for an updated form. Thank You.

☒ This is a new submittal

☐ This is additional information relating to DHR Review #:

GENERAL PROJECT INFORMATION

Project Title Wastewater Treatment Facility Upgrades

Project Location Winchester, NH

Tax Map & Lot # Map 25, Lot 11

NH State Plane Geographic Coordinates: Easting 789227 Northing 98249

Lead Federal Agency CleanWaterSRF American Recovery & Reinvestment Act
(Agency providing funds, licenses, or permits)

Permit or Job Reference #

State Agency and Contact (if applicable) Department of Environmental Services

Permit or Job Reference #

APPLICANT INFORMATION

Applicant Name Town of Winchester, Board of Selectman

Street Address One Richmond Road Phone Number 603-239-4951

City Winchester State NH Zip 3470 Email bgray@winchester.nh.gov

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Tata & Howard, Inc.

Street Address 33 Main Street Phone Number 603-883-5760

City Nashua State NH Zip 03060 Email vzabierek@tataandhoward.com

Please refer to the Request for Project Review manual for direction on completing this form. Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, the Division of Historical Resources (DHR) may require additional information to complete our review. All items and supporting documentation submitted with a review request, including photographs and publications, must be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review

process, please visit our website at: http://www.nh.gov/nhdhr/review or contact the R&C Specialist at 603.271.3558.

PROJECT BOUNDARIES AND DESCRIPTION

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

REQUIRED

☒ Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) ***indicating the defined project boundary.***

☒ Attach a detailed written description of the proposed project. Include: (1) a narrative description of the proposed project; (2) site plan; (3) photos and description of the proposed work if the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures; and (4) a photocopy of the relevant portion of a soils map (if accessible) for ground-disturbing projects.

Architecture

Are there any buildings or structures within the project area? ☒ Yes ☐ No

If yes, submit all of the following information:

Approximate age(s): 1980's

☒ Photographs of ***each*** building located within the project area along with a photo key. Include streetscape images if applicable. (Digital photographs are accepted. All photographs must be clear, crisp and focused)

☒ DHR file review conducted on 3/31/2009 (It should be noted that no Hisorical Resources were located within the proposed project area.)

Please note that as part of the review process, the DHR may request an architectural survey or other additional information.

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☒ Yes ☐ No

If yes, submit all of the following information:

☒ Project specific map and/or preliminary site plan that fully describes the project boundaries and areas of proposed excavation.

☒ Description of current and previous land use and disturbances.

☒ Any available information concerning known or suspected archaeological resources within the project area.

Please note that as part of the review process, the DHR may request an archaeological survey or other additional information.

DHR COMMENT *This Space for Division of Historical Resources Use Only*

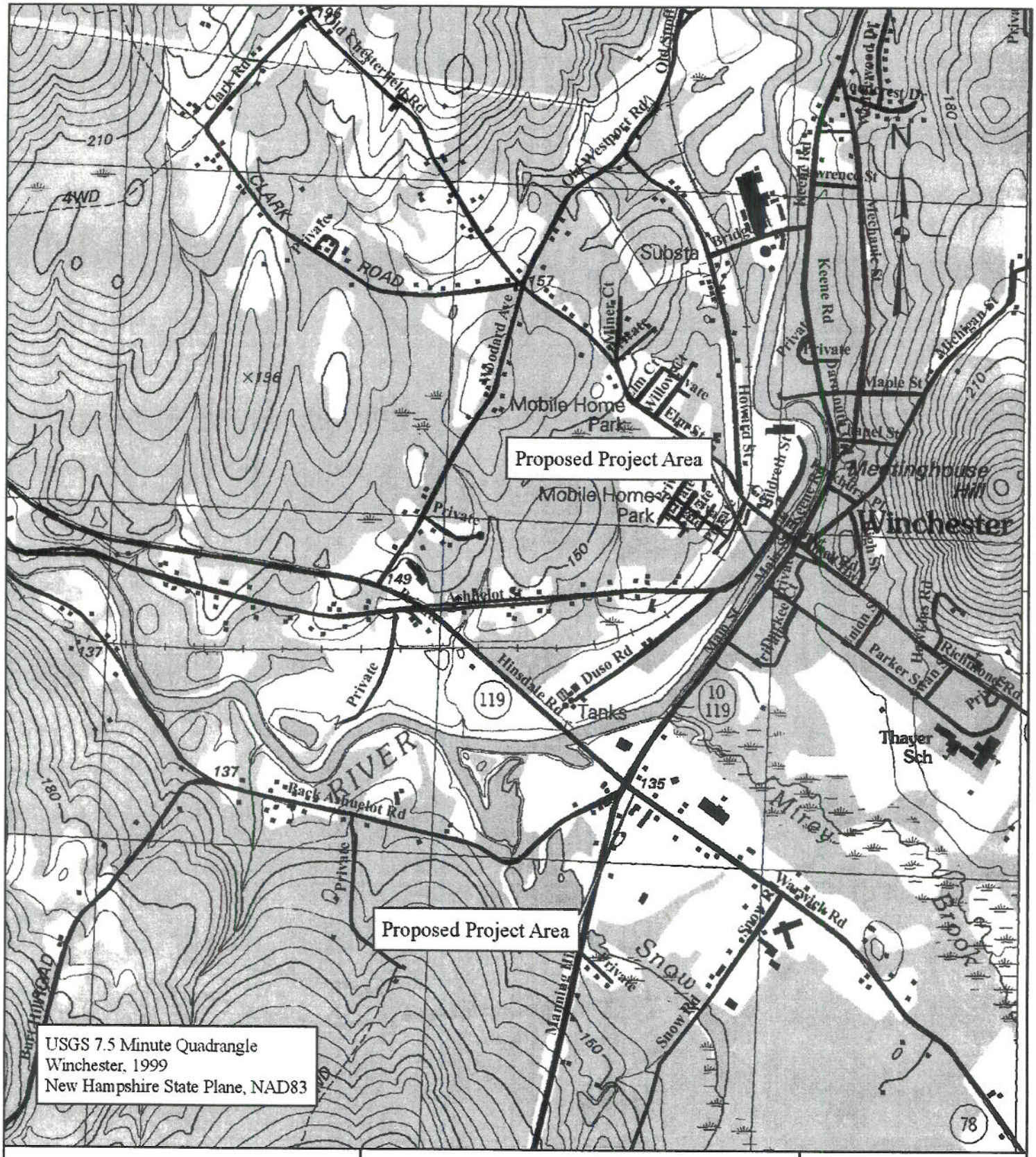
☐ No Potential to cause Effects ☐ Additional information is needed in order to complete our review

☐ No Adverse Effect ☑ No Historic Properties Affected ☐ Adverse Effect

Comments: _____

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: E Jr Murphy Date: 5/6/09



TATA & HOWARD
INCORPORATED

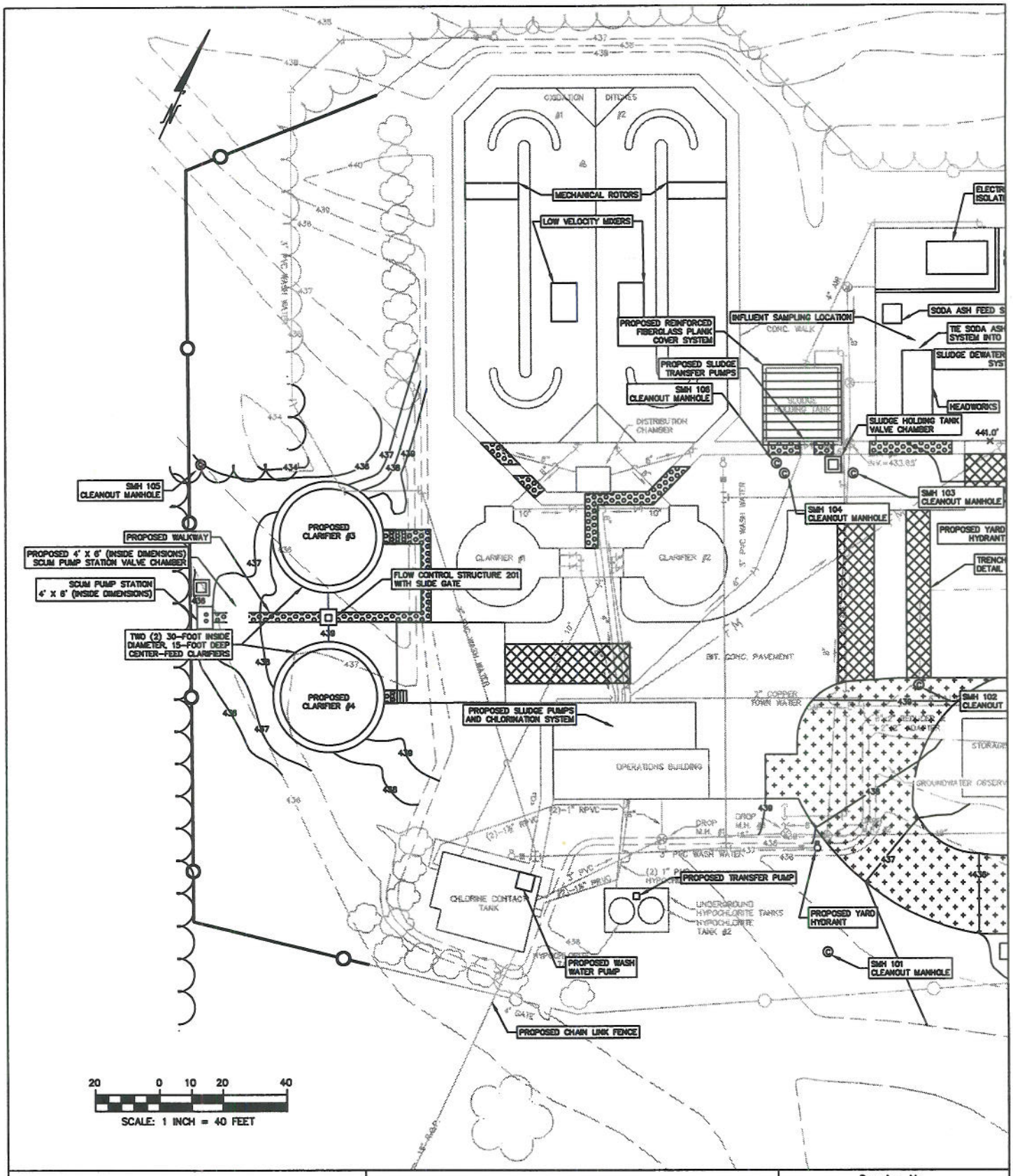
Date: September 2009 Scale: 1:15,000

Locus Map

Priority I Repair/Rehabilitation
of the Sewer Collection System
Winchester, New Hampshire

Figure No.

1



TATA & HOWARD
INCORPORATED
Consulting Engineers
67 Forest Street Marlborough, MA

Proposed Site Plan

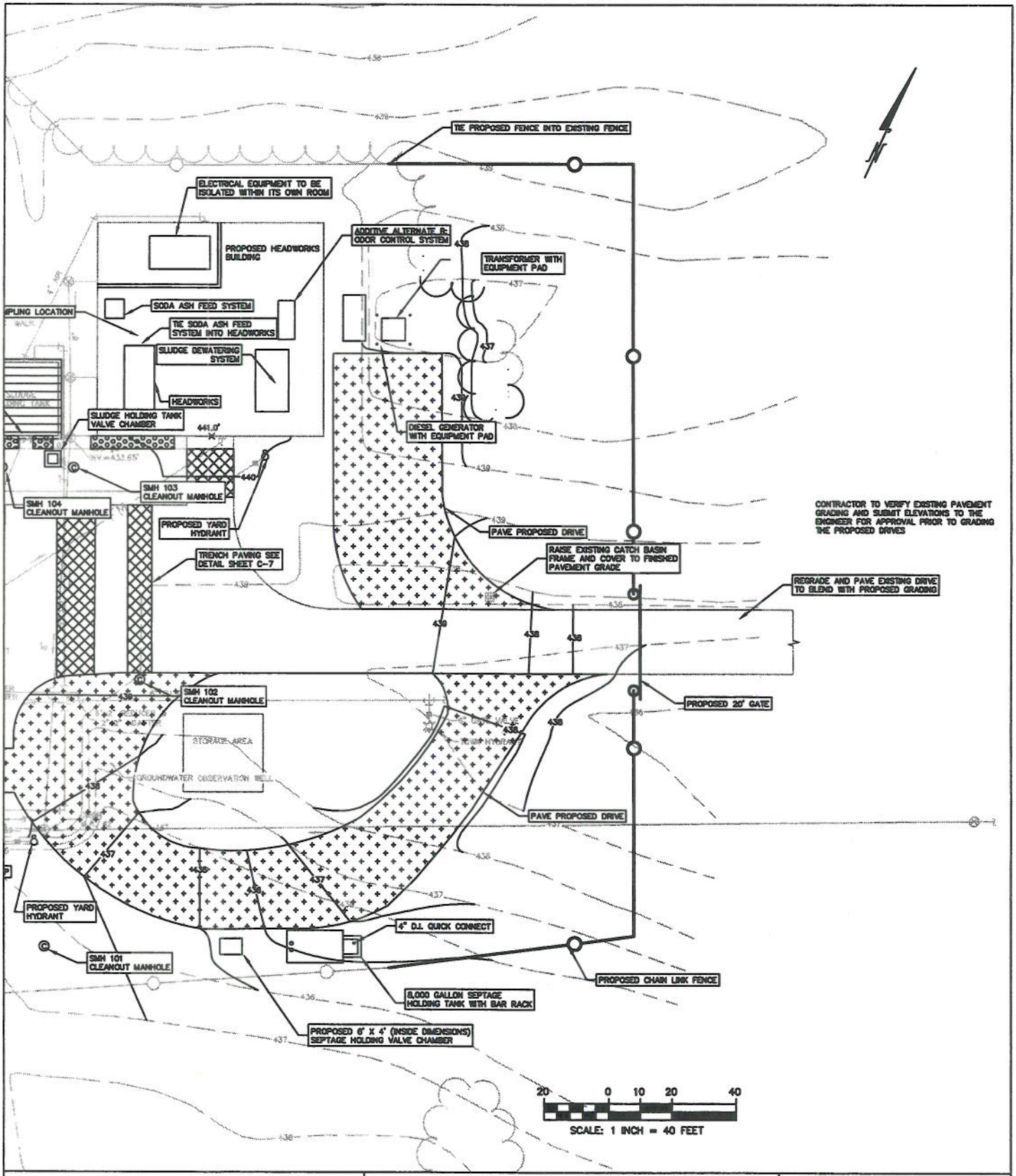
Design Improvements to the WWTF

Winchester, NH

Drawing No.

1 of 2

Scale: 40 FEET TO AN INCH
Date: January 2010



TATA & HOWARD
INCORPORATED
Consulting Engineers
67 Forest Street Marlborough, MA

Proposed Site Plan

Design Improvements to the WWTF

Winchester, NH

Drawing No.

2 of 2

Scale: 40 FEET TO AN INCH
Date: January 2010