

Municipality/Organization: Town of Boxborough

EPA NPDES Permit Number: MA941183/MaDEP

MaDEP Transmittal Number: W-03602

**Annual Report Number
& Reporting Period:** No. 2: May 04 – May 05

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Elizabeth Hughes **Title:** Town Planner

Telephone #: 978/263-1116 x 112 **Email:** elizabeth.hughes@town.boxborough.ma.us

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, 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.

Signature: Natalie Lashmit

Printed Name: Natalie Lashmit

Title: Town Administrator

Date: April 29, 2005

Part II. Self-Assessment

The Town of Boxborough has completed the required self assessment and has determined that our municipality is in compliance with all permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3(**Reliance on non-municipal partners indicated)
1.1	Educate the community by informing them that any dumping into town storm drains is illegal.	CC, BoH	Prepare brochure for distribution in 2005. Post information on CC & BoH web page.	In progress.	Finalize brochure for distribution to residents and business owners in 2006. Put information on the town website.
1.2	Distribute information regarding the following items: <ul style="list-style-type: none"> ▪ function and proper maintenance of private wells and septic systems with any well and septic permit. ▪ the use of detergents, fertilizers, and other potentially harmful practices. ▪ the use of environmentally friendly products. 	CC, BoH	Prepare brochure for distribution in 2005. Post information on CC & BoH web page.	In progress.	Finalize brochure for distribution to residents and business owners in 2006. Put information on town website. Distribute EPA’s “The Solution to Stormwater Pollution” brochure at annual Town Meeting on May 9, 2005

1.3	Distribute information explaining the hazards of dumping hazardous materials and the importance of participating in Hazardous Waste collections.	BoS, BoH, DPW	Prepare brochure and distribute at the town transfer station.	Brochure distributed at least two weeks prior to the collection date – publicize date in the local newspaper, on town website and via BoS email list. Hazardous Waste Collection day held April 30, 2005	Distribute information similar to last year. Hazardous Waste Collection day to be held in April or May 2006
1.4	Develop Stormwater Management Plan	PB	Prepare Stormwater Management Plan.	Draft copy of Plan reviewed by all Town Boards/Committees/Staff.	Make necessary revisions to the Stormwater Management Plan

1a. Additions

1.5	Develop pet waste program for municipal & conservation land	BoS, CC, DPW, TP	Develop informational pamphlet Provide proper waste disposal items at municipal and conservation land		Prepare informational pamphlet. Submit grant proposal to purchase proper waste disposal items, such as Mutt Mitts to be located at the entrance to all municipal and conservation land.
-----	---	------------------	--	--	--

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
2.1	Water Resources Committee	BoS, CC, PB, BoH	Put water quality monitoring under the WRC's charge.	Water Resources Committee formed and Committee has been monitoring water quality reports and assessing pollution issues	Committee will continue to monitor reports and follow-up on any pollution issues
2.2	Implement a stewardship program for conservation lands.	BoS, CC	Develop a volunteer stewardship program	Land Stewardship Committee formed in 2004	LansCom currently evaluating drainage issues on existing trails and will be recommending improvements to the CC for implementation in summer/fall 2005

2.3	Evaluate the Use Schedule of the Zoning Bylaw to further regulate uses that may impact groundwater quality.	PB	Prepare Article for changing Use Schedule so that Automobile fuel/ service stations and repair garages are allowed by special permit instead of by right.	An Article for changing the use schedule has been included in the ATM 2004 Warrant.	Review the Zoning Bylaws for other Uses that may be further regulated.
-----	---	----	---	---	--

2a. Additions

2.4	Public hearings on Draft Stormwater Management Plan	PB, BoS	Hold public hearings in 2005/2006		Hold public hearing, incorporate changes and have Plan accepted by PB & BoS
-----	---	---------	-----------------------------------	--	---

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3.1	Map the location of all catch basins, manholes, pipes, outfall pipes, and the names of all waters that receive discharges from those outfalls on GIS.	DPW	Number of drainage facilities mapped.	All catchbasins have been mapped on GIS.	Map drainage manholes, pipes, and outlet pipes. (GPS of structures done by WPI students)
3.2	Dry Weather Screening and mapping of Outfalls.	DPW, BoH	Perform inspections.	Scheduled for years 4 through 5.	
3.3	Develop a System for removal, clean-up, and mitigation of Illicit Discharges once detected.	PB, BoH	Number of illegal discharges that have been detected.	Scheduled for year 5.	

3.4	Stencil all storm drains with "NO DUMPING – Drains to the Environment" stencils.	DPW	Stencil basins	Develop stencil	Scheduled for summer/fall of 2005
-----	--	-----	----------------	-----------------	-----------------------------------

3a. Additions

3.5	Draft illicit connection bylaw	BoS, BoH, DPW	Warrant article on 2006 Annual Town meeting		Complete draft bylaw in fall/winter 2005 for internal review
-----	--------------------------------	---------------	---	--	--

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
4.1	Review existing regulations for adequate construction site erosion and post-construction stormwater management.	CC, PB, BoH	Amendments to existing regulations and develop standard conditions of approval.	No action to date	Review and propose changes to the Subdivision Rules and Regulations and develop standard conditions. Review Site Plan regulations and propose changes to 2006 Annual Town Meeting.
4.2	Building Inspector to aggressively enforce regulations and bylaws pertaining to construction run-off.	BoS, BI, TP	Number of enforcement orders issued.	No enforcements issued	Continued enforcement of site construction erosion control measures.

4a. Additions

4.3	Erosion Control Plan	PB, TP	Submission of Erosion Control Plan for subdivisions and commercial developments	Put into place regulations requiring the submission of erosion control plans and develop standard conditions of approval	Continue implementation of regulation and conditions
-----	----------------------	--------	---	--	--

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
5.1	Review existing regulations for adequate construction site erosion and post-construction stormwater management.	CC, PB, BoH	Amendments to existing regulations and develop standard conditions of approval.	No action to date	Review and propose changes to the Subdivision Rules and Regulations and develop standard conditions. Review Site Plan regulations and propose changes to 2006 Annual Town Meeting.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
6.1	Minimize the use of road salt.	DPW	Miles of public road where a reduced salt mix has been used.	DPW used a reduced salt mix ratio: (25%NaCL to 75% Sand) for FY04.	Continue to use a reduced salt mixture for winter of 2005-2006.
6.2	Sweep all streets and town parking lots annually by June 1 st .	DPW	Miles of streets swept.	Spring street sweeping has begun scheduled completion date: June 1, 2005	Sweep all streets by June 1, 2006
6.3	Clean all town catch basins annually.	DPW	Number of catch basins cleaned	Spring catch basin cleaning has begun scheduled completion date: June 30, 2005: 430 structures cleaned in FY05.	Clean all town catch basins by June 30, 2006
6.4	Test Water Quality in municipal buildings once every two years.	BoH	Number of tests performed.	Town Hall water tested in Dec. 2000. Blanchard Memorial School/ Fire/Police water tested on a regular basis as a Community Water Supply.	Schedule water quality test at Town buildings.
6.5	Municipal employee training.	BoS, DPW	Establish procedures to train municipal employees on using BMPs for all municipal operations	No action to date	Draft employee training manual

6.6	Monitor 21E sites and their clean up.	BoH	Number of sites monitored.	Continue to monitor all open 21E Sites.	Same as Year 2
6.7	Track failed septic systems on GIS	BoH,TP	Number of failed systems mapped.	No failed systems mapped to date.	Begin failed septic system failure mapping on GIS.
6.8	Continue groundwater monitoring program along with Site Plan Approval and continue to monitor groundwater quality reports prepared by the Littleton Water Department. Track results on GIS.	BoH, PB, TP	Require groundwater monitoring for all commercial operations requiring Site Plan Approval from the Planning Board.	Commercial Site Plans groundwater monitoring was conducted by Littleton Water Department. No commercial site plans issued in Permit Year 2	Continue commercial groundwater monitoring. Put Groundwater Monitoring information on GIS.

(BoS: Board of Selectmen; PB: Planning Board; TP: Town Planner; BI: Building Inspector; BoH: Board of Health; CC: Conservation Commission; DPW: Public Works Director)

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>
(Not Applicable in Boxborough)

See attached water quality information collected in Permit Year 2.



39 Ayer Road, P. O. Box 2406
Littleton, MA 01460-3406
Telephone (978) 486-3104
Fax (978) 486-8549
www.lclwd.com

Savas C. Danos, General Manager

March 4, 2005

Boxborough Board of Health
Town Hall
29 Middle Road
Boxborough, MA 01719

BOXBOROUGH BOH

1 _____

2 _____

3 _____

RECEIVED

ACTION:

Re: Boxborough Transfer Station
Semi-annual Groundwater Monitoring

Dear Board Members:

The Littleton Water Department sampled the monitoring well network at the Boxborough Transfer Station on June 26, and December 29, 2004. Four monitoring wells (BLF-1 through BLF-4) were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2, Safe Drinking Water Act (SDWA) heavy metals and general water quality parameters. A surface water sample (SW-1) was collected from the wetland located on the southern side of the landfill and sampled for VOCs. Copies of the laboratory reports are provided in Appendix A and field measurements with groundwater elevations are included in Appendix B.

Arsenic was detected in wells BLF-3 and BLF-4 during both sampling events at concentrations that exceed the US EPA standard of 0.05 mg/L. MTBE was detected in the groundwater sample from BLF-3 in June and December concentrations of 0.68 micrograms per liter (ug/L) and 1.1 ug/L, respectively. All other tested parameters were found to be within acceptable levels for both groundwater and surface water samples at the site.

The next scheduled sampling event is in the Spring of 2005 and will include general water quality parameters, SDWA heavy metals and VOCs. Please call me at (978) 486-3104 with any questions or concerns.

Sincerely,

Gregory A. Woods, PG.
Environmental Analyst

Enclosures

cc: Paul Anderson, DEP, DSWM
Nashoba Associated Boards of Health

G:\Water Dept\WATER\GWMP\Boxborough\Codman Hill - BLF\Reports\BLF-04ii.DOC



PRINTED ON RECYCLED PAPER

Thorstensen Laboratory, Inc.

66 LITTLETON ROAD WESTFORD, MA 01886 (978) 692-8395 FAX (978) 692-0023 1-800-649-TEST

Report Number: C-83728
Client:

Littleton Water Dept.
P.O.Box 2406
Littleton MA 01460

BOXBOROUGH BOH

1 _____
2 _____
3 _____

ACTION:

RECEIVED
3/9/05

Report Date: June 30, 2004

Sample taken at:

Boxboro Landfill
BLF #1, BLF #2, BLF #3, BLF #4
WQ-2274

Sample Taken By: LWD Staff

Received on: 6/24/04

Certificate of Analysis

TEST PARAMETER	BLF	BLF	BLF	BLF	UNITS
	#1	#2	#3	#4	
Calcium	35	13.1	33.7	31.4	mg/L
Copper	<0.02	<0.02	<0.02	<0.02	mg/L
Iron	0.24	8.3	12.4	19.9	mg/L
Magnesium	4.8	3.0	3.3	3.1	mg/L
Manganese	1.1	0.27	1.6	1.5	mg/L
Potassium	3.6	3.3	6.2	5.8	mg/L
Sodium	128.0	117	56.5	70.2	mg/L
Alkalinity	21.0	7.0	105	97.5	mg/L
Ammonia	0.06	0.11	0.30	0.51	mg/L
Chloride	272	268	108	155	mg/L
Conductivity	889	729	566	673	umhos/cm
Hardness	107	45	98	91	mg/L
Nitrates	1.7	<0.01	<0.01	<0.01	mg/L
Nitrites	<0.01	<0.01	<0.01	<0.01	mg/L
pH	5.4	6.4	6.8	6.5	SU
Sulphates	32.4	3.6	7.5	8.2	mg/L
Total Dissolved Solids	525	425	293	378	mg/L

Massachusetts State Certified
Testing Laboratory #MA048

Michael P. Carlson
Michael P. Carlson, for
Thorstensen Laboratory Inc.

Thorstensen Laboratory, Inc.

66 LITTLETON ROAD, WESTFORD, MA 01886

Report Number: C-lwd-89221

Client:

Littleton Water Dept.

P.O.Box 2406

Littleton MA 01460

(978) 692-8395 FAX (978) 692-0023 1-800-649-TEST

Report Date: January 10, 2005

Sample Taken At:

Boxboro Landfill

BLF#1, BLF #2, BLF #3, BLF #4

WQ-2365

Sample Taken By: LWD Staff


On: 12/29/04

Certificate of Analysis

Test Parameter	BLF-1	BLF-2	BLF-3	BLF-4	Detection Limit	Units	Analytical Method
Calcium	59.0	9.6	31.5	24.3	0.01	mg/L	200.7
Copper	ND	ND	ND	ND	0.02	mg/L	200.7
Iron	0.12	0.90	0.22	0.66	0.01	mg/L	200.7
Magnesium	7.4	2.0	3.1	2.3	0.01	mg/L	200.7
Manganese	0.92	0.14	1.4	1.2	0.01	mg/L	200.7
Sodium	162	74.5	57.3	63.1	0.1	mg/L	200.7
Potassium	5.6	2.4	6.9	5.5	0.05	mg/L	200.7
Alkalinity	ND	9.5	75.5	56.0	1	mg/L	310.1
Ammonia	0.12	0.10	0.60	0.53	0.03	mg/L	350.3
Chloride	365	126	101	118	0.05	mg/L	300.0
Conductivity	1351	489	534	542	0	umhos/cm	120.1
Hardness	178	32	91	70	2	mg/L	SM2350B
Nitrates	6.8	0.29	ND	ND	0.01	mg/L	300.0
Nitrites	ND	ND	ND	ND	0.01	mg/L	300.0
pH	5.0	6.2	6.4	6.1	-	SU	150.1
Sulphates	50.3	8.5	10.3	13.2	0.1	mg/L	300
TDS	893	260	305	303	1	mg/L	160.1

ND=None detected

Massachusetts State Certified
Testing Laboratory #MA048


Michael P. Carlson, for
Thorstensen Laboratory Inc.



6-30-04

BOXBOROUGH BOH
1 Noted
2 _____
3 _____
ACTION:

RECEIVED
5/27/04

39 Ayer Road, P. O. Box 2406
Littleton, MA 01460-3406
Telephone (978) 486-3104
Fax (978) 486-8549
www.lclwd.com
Savas C. Danos, General Manager

May, 17, 2004

Boxborough Board of Health
Town Hall
29 Middle Road
Boxborough, MA 01719

Re: Boxborough Transfer Station
Semi-annual Groundwater Monitoring

Dear Board Members:

The Littleton Water Department sampled the monitoring well network at the Boxborough Transfer Station on December 11, 2003. Four monitoring wells (BLF-1 through BLF-4) were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2, Safe Drinking Water Act (SDWA) heavy metals and general water quality parameters. A surface water sample (SW-1) was collected from the wetland located on the southern side of the landfill and sampled for VOCs. A copy of the laboratory report is provided in Appendix A and field measurements with groundwater elevations are included in Appendix B.

Arsenic was detected in wells BLF-3 and BLF-4 at concentrations of 0.078 milligrams per liter (mg/L) and 0.078 mg/L, respectively. These concentrations exceed the US EPA standard of 0.05 mg/L. MTBE was detected in the groundwater sample from BLF-3 at a concentration of 0.94 micrograms per liter (ug/L). All other tested parameters were found to be within acceptable levels for both groundwater and surface water samples at the site.

The next scheduled sampling event is in the Spring of 2004 and will include general water quality parameters, SDWA heavy metals and VOCs. Please call me at (978) 486-3104 with any questions or concerns.

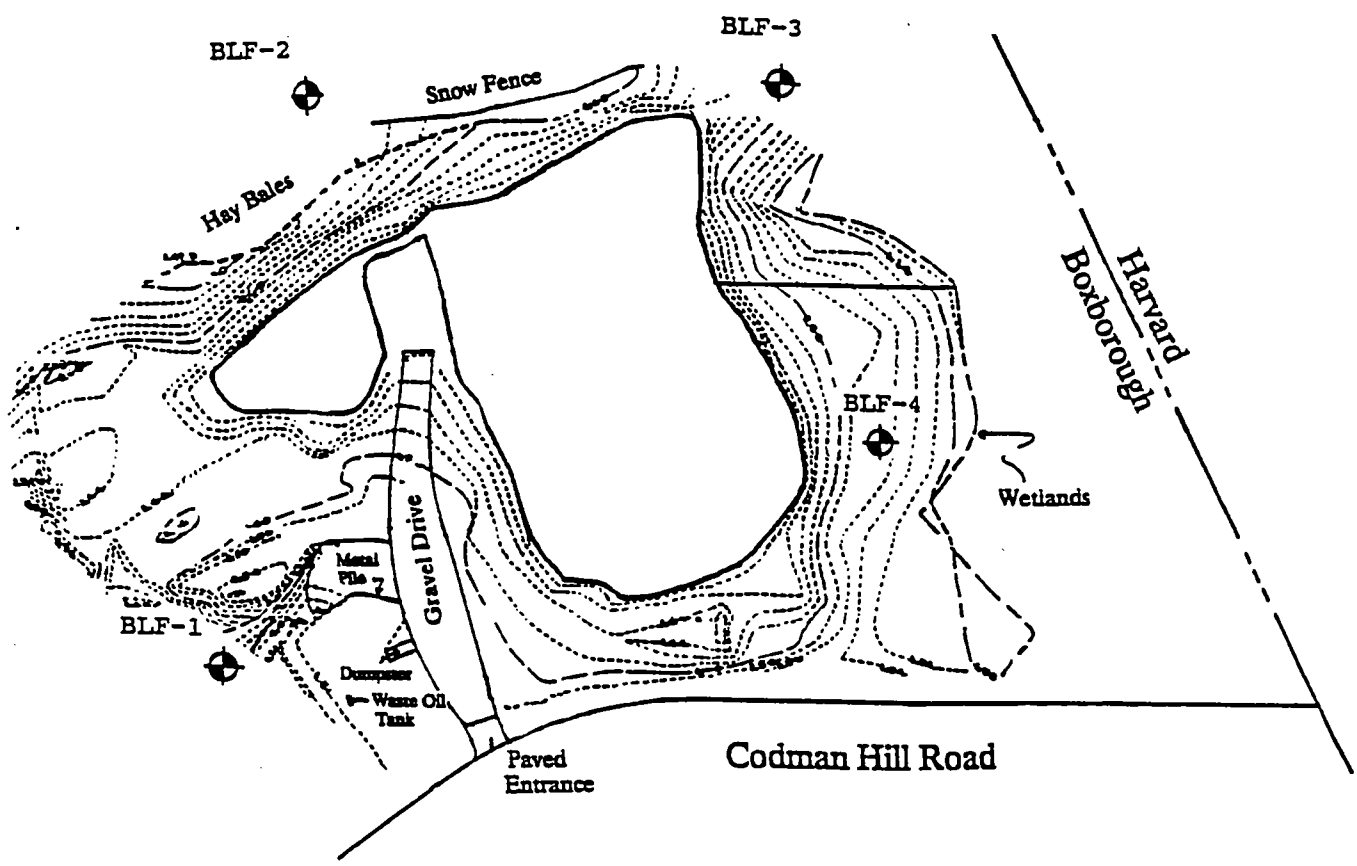
Sincerely,

Gregory A. Woods, PG.
Environmental Analyst

Enclosures
cc: Paul Anderson, DEP, DSWM
Boxborough Planning Board
Nashoba Associated Boards of Health

G:\Water Dept\WATER\GWMP\Boxborough\BLF - Boxboro Landfill\Reports\BLF-03ii.DOC





LEGEND:
MONITORING WELL
(Figure not to scale)

Monitoring Well Network
Boxborough Landfill/Transfer Station

Thorstensen Laboratory, Inc.

66 LITTLETON ROAD, WESTFORD, MA 01886

(978) 692-8395 FAX (978) 692-0023 1-800-649-TEST

Report Number: C-lwd-78871

Report Date: December 19, 2003

Client:

Sample Taken At:

Littleton Water Dept.

P.O.Box 2406

Littleton MA 01460

Boxboro Landfill

BLF#1, BLF #2, BLF #3, BLF #4

WQ-2203

Sample Taken By: LWD Staff


On: 12/12/03

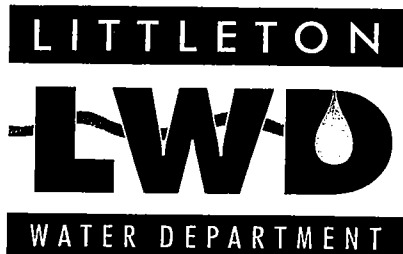
Certificate of Analysis

Test Parameter	BLF-1	BLF-2	BLF-3	BLF-4	Detection Limit	Units	Analytical Method
Calcium	38.6	19.1	42.5	33.2	0.01	mg/L	200.7
Copper	ND	ND	0.03	ND	0.02	mg/L	200.7
Iron	0.10	2.8	6.8	10.0	0.01	mg/L	200.7
Magnesium	5.0	4.0	4.5	3.2	0.01	mg/L	200.7
Manganese	1.2	0.48	1.8	1.6	0.01	mg/L	200.7
Sodium	113	113	65.5	83.4	0.1	mg/L	200.7
Potassium	4.1	2.5	6.3	5.6	0.05	mg/L	200.7
Alkalinity	18.0	8.0	95.0	69.0	1	mg/L	310.1
Ammonia	0.10	0.08	0.63	0.79	0.03	mg/L	350.3
Chloride	238	212	122	150	0.05	mg/L	300.0
Conductivity	865	753	645	708	0	umhos/cm	120.1
Hardness	117	64	125	96	2	mg/L	SM2350B
Nitrates	1.8	0.24	ND	ND	0.01	mg/L	300.0
Nitrites	ND	ND	ND	ND	0.01	mg/L	300.0
pH	5.6	5.9	6.4	6.2	-	SU	150.1
Sulphates	26.9	4.8	8.5	11.5	0.1	mg/L	300
TDS	538	418	410	373	1	mg/L	160.1
Zinc	ND	ND	ND	ND	.01	mg/L	200.7

ND=None detected

Massachusetts State Certified
Testing Laboratory #MA048


Michael P. Carlson, for
Thorstensen Laboratory Inc.



BOXBOROUGH BOH
1 _____
2 _____
3 _____
ACTION:

RECEIVED

39 Ayer Road, P. O. Box 2406
Littleton, MA 01460-3406
Telephone (978) 486-3104
Fax (978) 486-8549
www.lclwd.com

Savas C. Danos, General Manager

August 2, 2004

Mr. Charles Nasser
National Technical Systems
1146 Massachusetts Avenue
Boxboro, MA 01719

Re: Groundwater Monitoring Program

Dear Mr. Nasser:

In compliance with the Town of Boxborough's Zoning Bylaws and the occupancy permit issued to this facility, the Littleton Water Department sampled the monitoring well network surrounding NTS on June 14, 2004. Four monitoring wells (NTS-1 through NTS-4) were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2 and general water quality parameters. The cooling tower effluent was tested for SDWA heavy metals. A copy of the laboratory reports are provided in Appendix A.

11.8?

Nitrate levels were low across the site and no VOC's were detected. Groundwater samples from monitoring well NTS-2 exhibited elevated concentrations of sodium and chloride, which is likely the result of road salt on the driveway and along Massachusetts Avenue. All other groundwater quality parameters measured remain at acceptable levels. No SDWA metals were detected in the cooling tower effluent.

The next sampling event at this site will take place in the spring of 2005 and will include general water quality parameters and VOCs. Please call me at (978) 486-3104 with any questions or concerns and again, we thank you for your continued cooperation.

Sincerely,

Gregory A. Woods, PG.
Environmental Analyst

Enclosures

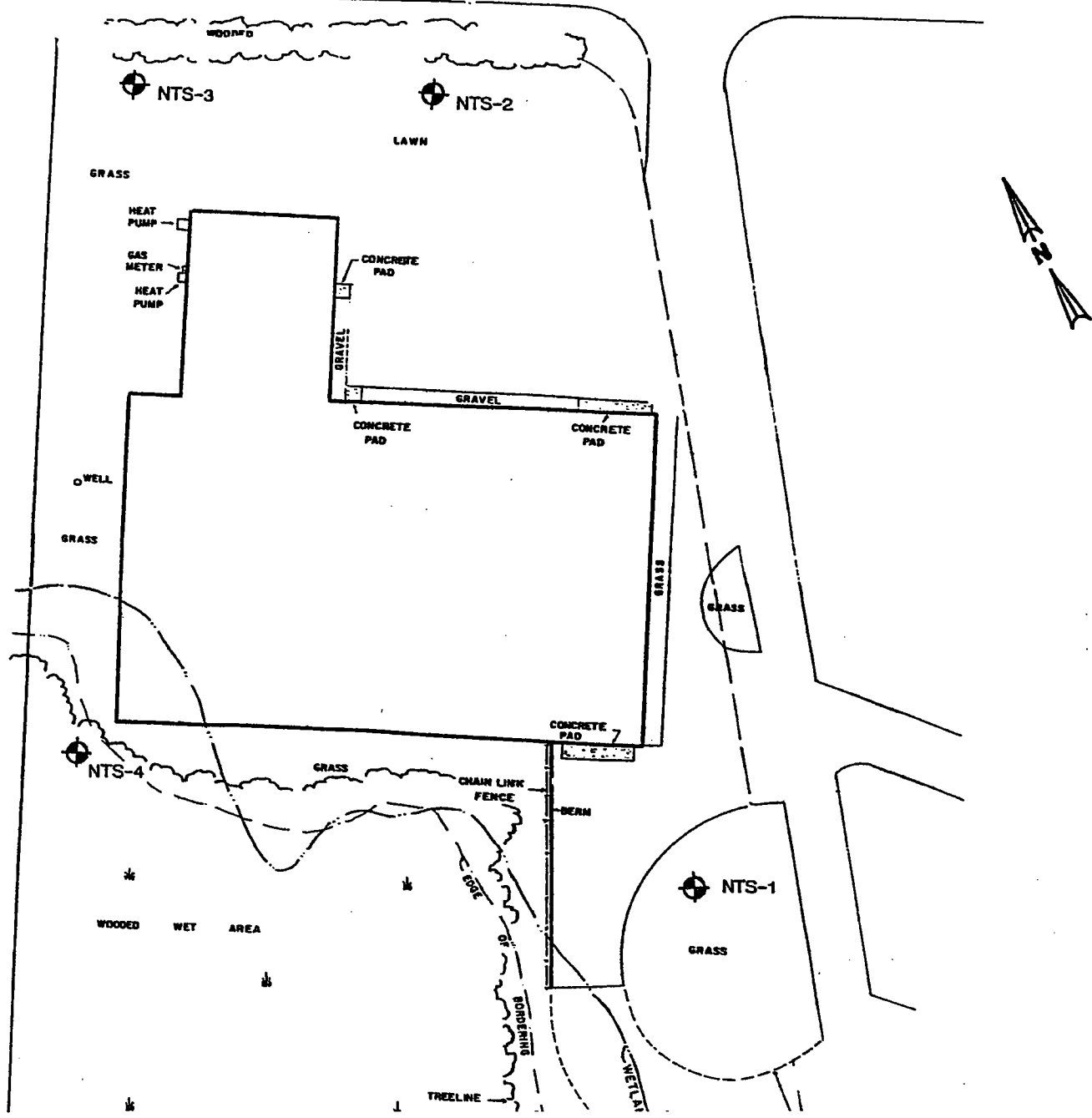
cc: Boxborough Board of Health ✓
Boxborough Planning Board
Nashoba Associated Boards of Health

G:\Water Dept\WATER\GWMP\Boxborough\NTS - National Tech. System\Reports\NTS-04i.DOC



MASSACHUSETTS

AVENUE





BOXBOROUGH BOH

1 _____

2 _____

3 _____

ACTION:

RECEIVED

39 Ayer Road, P. O. Box 2406
Littleton, MA 01460-3406
Telephone (978) 486-3104
Fax (978) 486-8549
www.lclwd.com

Savas C. Danos, General Manager

August 2, 2004

Mr. Scott Turner
National Development
2310 Washington Street
Newton Lower Falls, MA 02462

Re: Groundwater Monitoring Program
Boxborough Technical Park: 155 & 159 Swanson Road

Dear Mr. Turner:

*check out septic system
Nitrate 5.8 ?*

In compliance with the Town of Boxborough's Zoning Bylaws and the Special Permit granted to the Boxborough Technical Park (decision #84-18), the Littleton Water Department sampled a subset of the groundwater monitoring network on this property on June 18, 2004. Monitoring wells BTP-1, BTP-4 and BTP-6 were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2 and general water quality parameters. A copy of the laboratory reports are provided in Appendix A.

Elevated sodium was detected in wells BTP-1 and BTP-4 and most likely attributed to nearby road salting activities. No VOCs were identified in any wells and all other water quality parameters measured remain at acceptable levels.

The next sampling event at this site will take place in the spring of 2005 and will include general water quality parameters and VOCs.

Please call me at (978) 486-3104 with any questions or concerns about the groundwater monitoring plan and we thank you for your continued cooperation.

Sincerely,

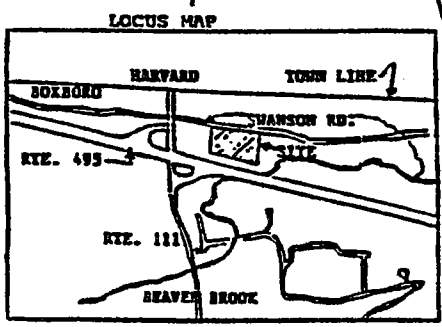
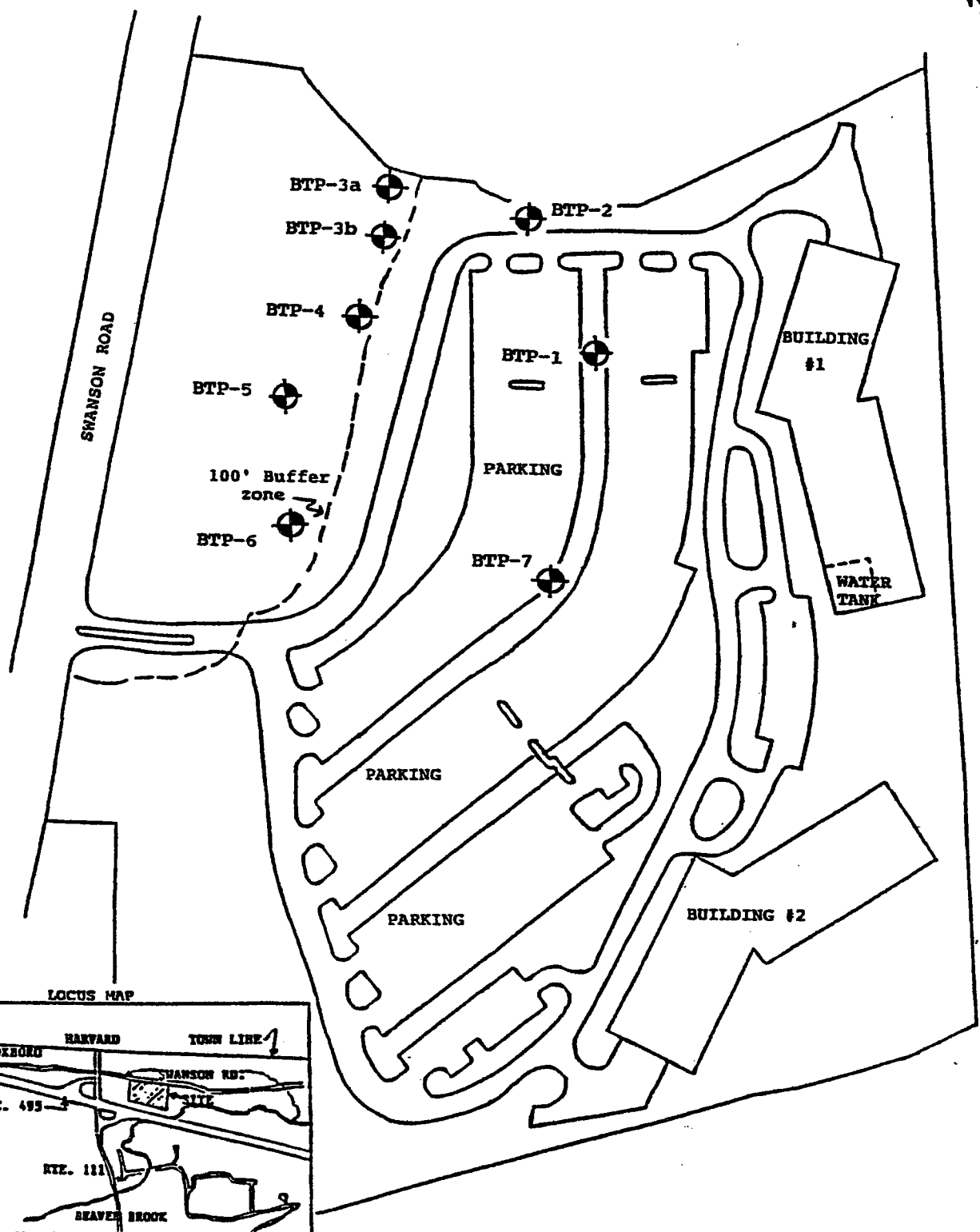
Gregory A. Woods, P.G.
Environmental Analyst

Enclosures

cc: Boxborough Board of Health ✓
Boxborough Planning Board
Nashoba Associated Boards of Health

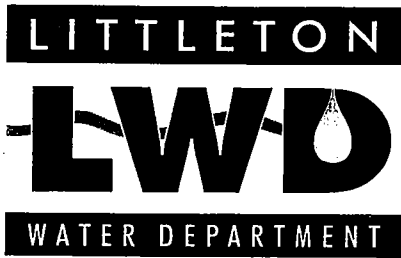
G:\Water Dept\WATER\GWMP\Boxborough\BTP - Boxboro Tech. Park\Reports\BTP-04i.DOC





Monitoring Well Network
Boxborough Technical Park
Swanson Road

LEGEND:
● MONITORING WELL
(Figure not to scale)



BOXBOROUGH BOH

1 _____

2 _____

3 _____

ACTION: *Noted*

RECEIVED

39 Ayer Road, P. O. Box 2406
Littleton, MA 01460-3406
Telephone (978) 486-3104
Fax (978) 486-8549
www.lclwd.com

Savas C. Danos, General Manager

August 2, 2004

Mr. Fred Begien
Spaulding & Slye
30 Nagog Park
Acton, MA 01720

Re: Groundwater Monitoring Program, 330 Codman Hill Road

Dear Mr. Begien:

In compliance with the Town of Boxborough's Zoning Bylaws and the groundwater monitoring program established for this facility, the Littleton Water Department sampled the monitoring well network at 330 Codman Hill Road on June 15, 2004. Monitoring wells CHRT-1, CHRT-2, CHRT-3 and CHRT-4 were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2 and general water quality parameters. A copy of the laboratory report is provided in Appendix A

Nitrate levels were again very low across the site and no VOCs were identified in any of the wells. Sodium levels were elevated in wells CHRT-3 and CHRT-4 and most likely due to nearby road salting activities.

The groundwater-sampling program for this facility remains on an annual schedule. The next sampling event will be conducted in the spring of 2005 and will include VOCs and general water quality parameters. Thank you for your continued cooperation with this important program; please call me at (978) 486-3104 with any questions or concerns.

Sincerely,

Gregory A. Woods, PG.
Environmental Analyst

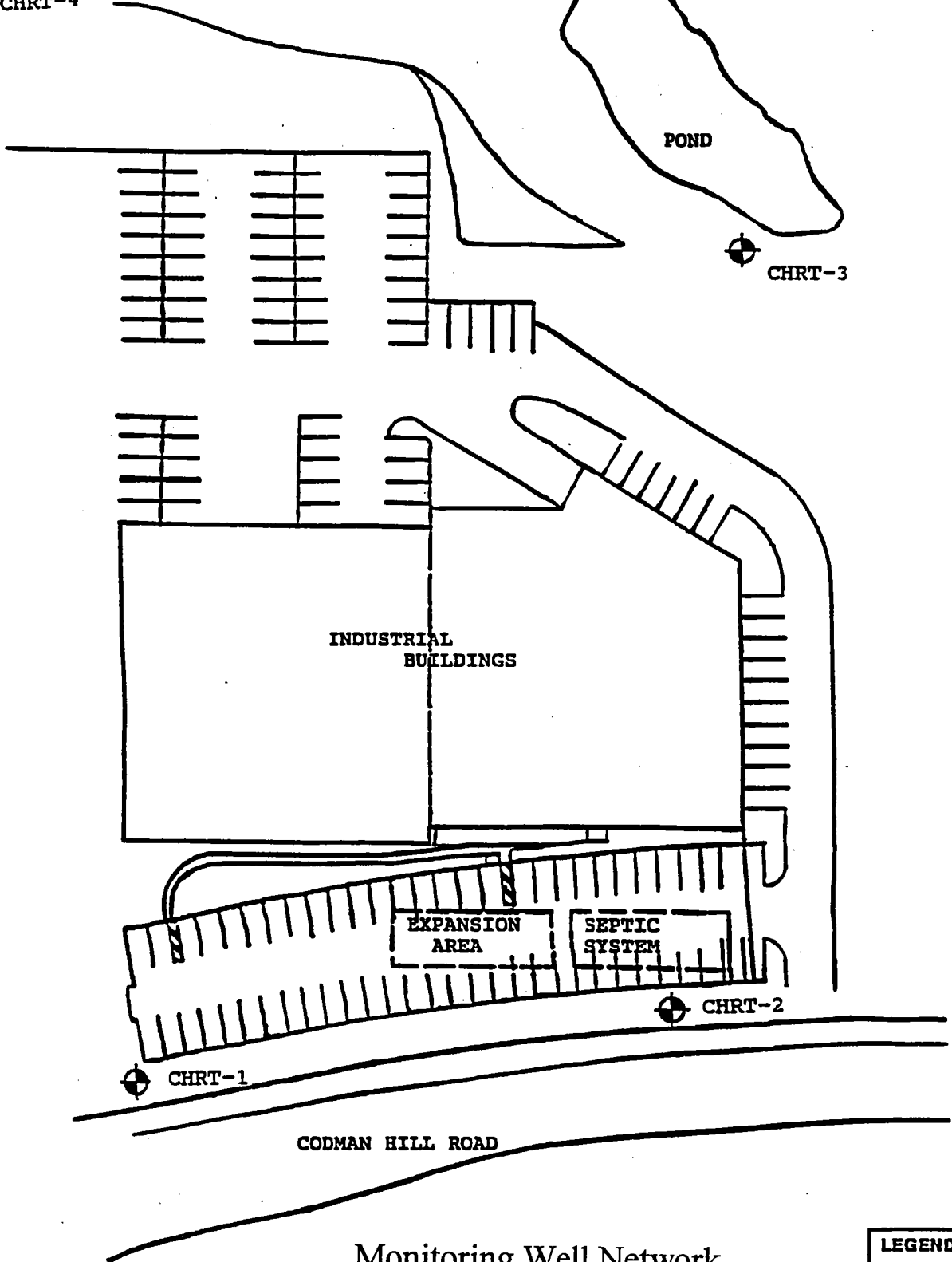
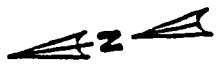
Enclosures

cc: Boxborough Board of Health ✓
Boxborough Planning Board
Nashoba Associated Boards of Health


G:\Water Dep\WATER\GWMP\Boxborough\CHRT - 330 Codman Hill\Reports\330Codman-04i.DOC

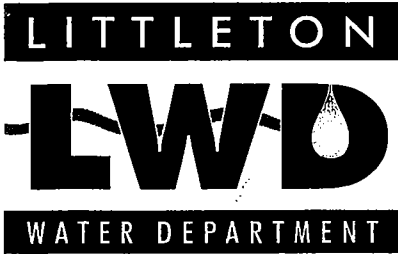


CHRT-4



Monitoring Well Network
 300 Codman Hill Road
 Boxboro

LEGEND:
 MONITORING WELL
 (Figure not to scale)



BOXBOROUGH BOH
1 _____
2 _____
3 _____
ACTION:

RECEIVED

39 Ayer Road, P. O. Box 2406
Littleton, MA 01460-3406
Telephone (978) 486-3104
Fax (978) 486-8549
www.lclwd.com

Savas C. Danos, General Manager

August 2, 2004

Mr. Fred Begien
Spaulding & Slye
30 Nagog Park
Acton, MA 01720

*Check SDS
Nitrates high
Potential failure?*

Re: Groundwater Monitoring Program, 1300 Mass. Avenue

Dear Mr. Begien,

In compliance with the Town of Boxborough's Zoning Bylaws, the Littleton Water Department sampled the groundwater monitoring well network at 1300 Mass Avenue on June 16, 2004. Four monitoring wells (NC13-1, NC13-2, NC13-3, and NC13-4) were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2 and general water quality parameters. A copy of the laboratory reports are provided in Appendix A

Laboratory data of groundwater samples collected from the site indicate that all groundwater quality parameters measured remain at acceptable levels. No VOCs were detected in any of the four groundwater monitoring wells and nitrate levels are below the allowable limit of 10 milligrams per liter (mg/L).

The next sampling event at this site will take place in the spring of 2005 and will include general water quality parameters and VOCs. Please call me at (978) 486-3104 with any questions or concerns and again, we thank you for your continued cooperation.

Sincerely,

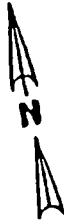
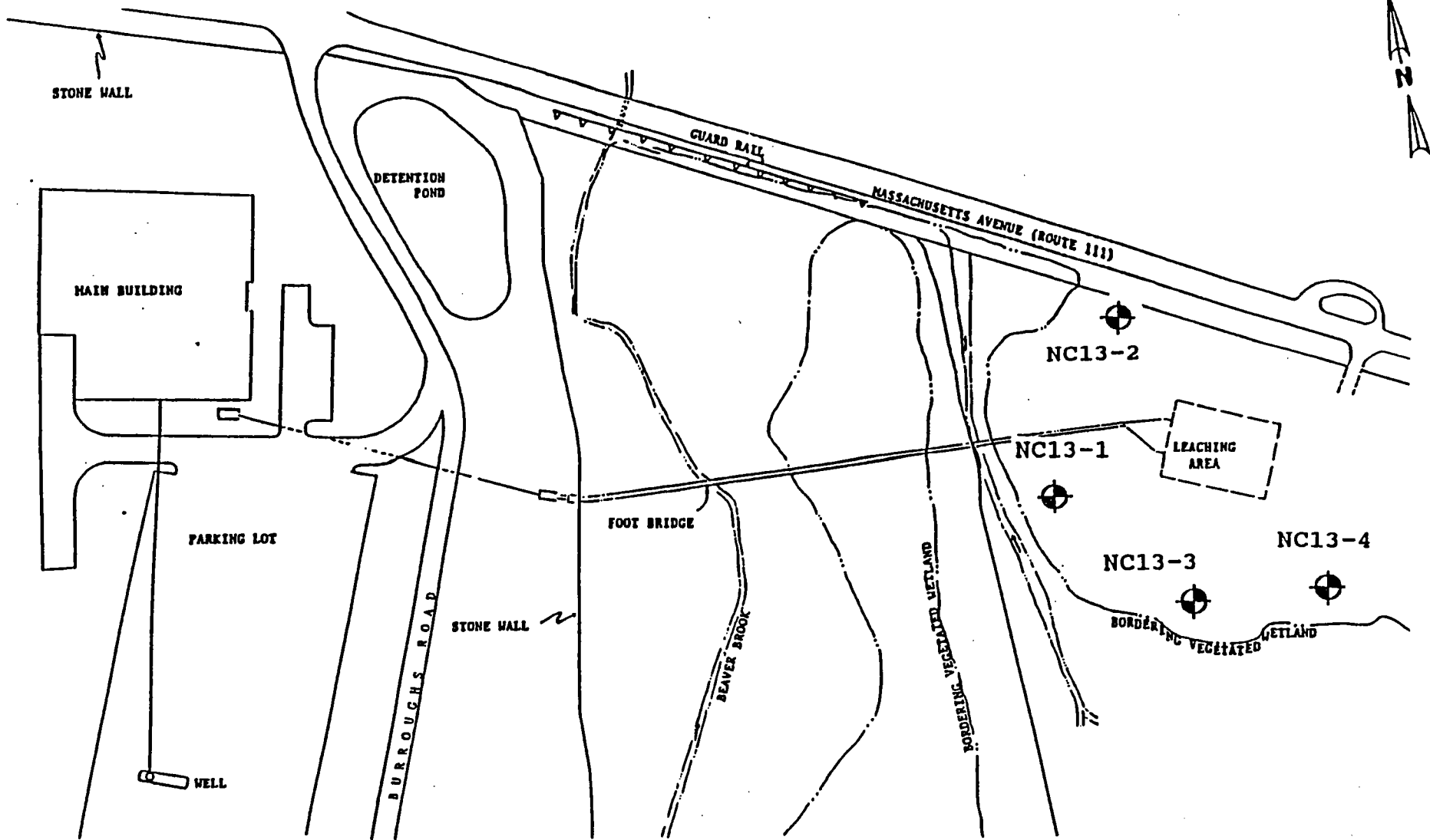
Gregory A. Woods, P.G.
Environmental Analyst

Enclosures

cc: Boxborough Board of Health ✓
Boxborough Planning Board
Nashoba Associated Boards of Health

G:\Water Dept\WATER\GWMP\Boxborough\NC13 - Ren. Office park\Reports\KUR-04i.DOC






Monitoring Well Network
 Renaissance Technology Building
 1300 Massachusetts Avenue

Kurian Ltd. Partnership

LEGEND:

 MONITORING WELL

(Figure not to scale)

Thorstensen Laboratory, Inc.

66 LITTLETON ROAD, WESTFORD, MA 01886

(978) 692-8395 FAX (978) 692-0023 1-800-649-TEST

Report Number: C-76089

Report Date: 8/26/03

Client:

Sample Data:

Business Manager
Boxboro School Dept.
493 Massachusetts Ave.
Boxboro, MA 01719

Nitrate/Nitrite/Ammonia
A-Blanchard Memorial School
B-Boxboro Fire
C-Police

PWS 2037010

Sample Taken By: P. McGovern

On: 8/21/03


CERTIFICATE OF ANALYSIS

TEST PARAMETER:	Nitrates	Nitrites	Ammonia	Units
Blanchard Memorial School	BDL	BDL	BDL	mg/L
Boxboro Fire	BDL	BDL	BDL	mg/L
Police Station	BDL	BDL	BDL	mg/L
Date of Analysis:	8/22/03	8/22/03	8/22/03	
Method of Analysis:	EPA 300.0	4500B	350.3	mg/L
Method Detection Limit:	0.01	0.01	0.03	

BDL= below detection limit

#-Exceeds EPA Limit

Massachusetts State Certified
Testing Laboratory #MA048


Michael P. Carlson, for
Thorstensen Laboratory, Inc.