

November 3, 2009
File No. 01.170055.20

Via Electronic Mail: GeneralPermit.Dewatering@epa.gov

US Environmental Protection Agency
Municipal Assistance Unit (CMU)
Dewatering General Permit Processing
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023



Re: Notice of Intent – Dewatering General Permit
DCAM Project BSC0401 DC1
Marshall Conant Science Building Modernization and Expansion
Bridgewater State College
Bridgewater, Massachusetts

Dear Sir or Madam:

133 Federal St
Floor 3
Boston
Massachusetts
02110
617-963-1000
FAX 617-482-6868
www.gza.com

On behalf of Bridgewater State College, GZA GeoEnvironmental, Inc. (GZA) has prepared the attached Notice of Intent (NOI) for coverage under the National Pollutant Discharge Elimination System (NPDES) Dewatering General Permit (GDP) during temporary construction-related dewatering for the above referenced project.

Bridgewater State College under the guidance of the Massachusetts Division of Capital and Asset Management (DCAM) will be completing the Marshall Conant Science Building Modernization and Expansion. This project will require temporary dewatering of groundwater in limited areas of the site during construction activities, including a basement excavation below existing groundwater levels. All construction activities that may require dewatering will be conducted on a portion of the site that is less than one-acre in area.

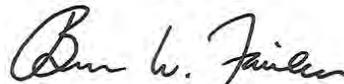
This NOI has been prepared to request coverage under the NPDES DGP for discharge of stormwater and/or uncontaminated groundwater to the existing site stormwater drainage system with subsequent discharge to the nearby Town River. This submittal consists of the NOI with supporting documentation as required by the US Environmental Protection Agency (EPA). A copy of this NOI has also been submitted to the Massachusetts Department of Environmental Protection (MassDEP) Watershed Permitting Program and the Boston Water and Sewer Commission (BWSC).

Should you have any questions regarding this NOI, please do not hesitate to contact the undersigned.

Sincerely,
GZA GeoEnvironmental, Inc.


Alfred Jones, P.E.
Senior Project Manager


Mary B. Hall, P.E.
Principal


Bruce W. Fairless, P.E.
Consultant / Reviewer

cc: Barry Heidke, DCAM
Todd Sloan, Payette
Steven Ventresca, Nitsch



Enter your transmittal number

X230438

Transmittal Number

Your unique Transmittal Number can be accessed online: http://mass.gov/dep/service/online/trasmfirm.shtml or call MassDEP's InfoLine at 617-338-2255 or 800-462-0444 (from 508, 781, and 978 area codes).

Massachusetts Department of Environmental Protection
Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. Copy 2 must accompany your fee payment. Copy 3 should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

MassDEP
P.O. Box 4062
Boston, MA
02211

* Note: For BWSC Permits, enter the LSP.

A. Permit Information

BRP WM 10 NPDES
1. Permit Code: 7 or 8 character code from permit instructions
2. Name of Permit Category
Construction Dewatering
3. Type of Project or Activity

B. Applicant Information - Firm or Individual

Division of Capital and Asset Management (DCAM) for Bridgewater State College
1. Name of Firm - Or, if party needing this approval is an individual enter name below:
2. Last Name of Individual
3. First Name of Individual
4. MI
One Ashburton Place 15th Floor
5. Street Address
Boston MA 02108 617 727 4030 375
6. City/Town 7. State 8. Zip Code 9. Telephone # 10. Ext. #
Barry Heidke barry.heidke@state.ma.us
11. Contact Person 12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Bridgewater State College, Conant Science Building
1. Name of Facility, Site Or Individual
48 Park Avenue
2. Street Address
Bridgewater MA 02325
3. City/Town 4. State 5. Zip Code 6. Telephone # 7. Ext. #
8. DEP Facility Number (if Known) 9. Federal I.D. Number (if Known) 10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

GZA GeoEnvironmental, Inc.
1. Name of Firm Or Individual
133 Federal St, Floor 3
2. Address
Boston MA 02110 617 963 1003
3. City/Town 4. State 5. Zip Code 6. Telephone # 7. Ext. #
Alfred Jones
8. Contact Person 9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

1. Is this project subject to MEPA review? [] yes [x] no
If yes, enter the project's EOE file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:
EOEA File Number

F. Amount Due

Special Provisions:

- 1. [] Fee Exempt (city, town or municipal housing authority)(state agency if fee is \$100 or less). There are no fee exemptions for BWSC permits, regardless of applicant status.
2. [] Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. [] Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. [] Homeowner (according to 310 CMR 4.02).

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

202536 \$385 October 26, 2009
Check Number Dollar Amount Date

II. Suggested Notice of Intent (NOI) Form

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

a) Name of facility:	Mailing Address for the Facility:	
b) Location Address of the Facility (if different from mailing address):	Facility Location	Type of Business:
	longitude: _____ latitude: _____	Facility SIC codes:
c) Name of facility owner: _____ Owner's email: _____ Owner's Tel #: _____ Owner's Fax #: _____ Address of owner (if different from facility address) Owner is (check one): 1. Federal ____ 2. State ____ 3. Tribal ____ 4. Private ____ 4. Other ____ (Describe)		
Legal name of Operator, if not owner: _____ Operator Contact Name: _____ Operator Tel Number: _____ Fax Number: _____ Operator's email: _____ Operator Address (if different from owner)		
d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? ____ Attachment A		
e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? Yes ____ No ____ If Yes, Permit Number: _____ 2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes ____ No ____ 3. Is the facility covered by an individual NPDES permit? Yes ____ No ____ If Yes, Permit Number ____ 4. Is there a pending application on file with EPA for this discharge? Yes ____ No ____ If Yes, date of submittal:		

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

a) Name of receiving water into which discharge will occur: _____
State Water Quality Classification: _____ Freshwater: _____ Marine Water: _____

- b) Describe the discharge activities for which the owner/applicant is seeking coverage:
1. Construction dewatering of groundwater intrusion and/or storm water accumulation.
 - ~~2. Short-term or long-term dewatering of foundation sumps.~~
 - ~~3. Other.~~

c) Number of outfalls _____

For each outfall:

d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow _____ GPD

Average Monthly Flow _____ GPD

e) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH _____ Min pH _____

f) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit. Groundwater and Stormwater, See Attachment B

g) What treatment does the wastewater receive prior to discharge?

h) Is the discharge continuous? Yes _____ No _____ If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) _____
If (P), number of days or months per year of the discharge _____ and the specific months of discharge _____;

If (I), number of days/year there is a discharge _____ Yes _____ No _____
Is the discharge temporary? If yes, approximate start date of dewatering _____ approximate end date of dewatering _____

i) Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long. _____ lat. _____;
Outfall 2: long. _____ lat. _____; Outfall 3: long. _____ lat. _____.

j) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations _____ cfs

(See Appendix VII for equations and additional information)

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

- k) Does the discharge occur in an ACEC? Yes _____ No _____ See Attachment C
If yes, provide the name of the ACEC: _____

3. Contaminant Information

- a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for aquatic organism(s)). ^{NO}
- b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge. See Attachment D

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendices III and IV. In addition, respond to the following questions.

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

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

- a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes _____ No _____
- b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No _____ If yes, attach the results of the consultation(s).
- c) Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1,2 o3) have you met? _____

6. 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

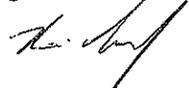
7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or

dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product or finished product; (4) if the discharge of dewatering subsequently mixes with other permitted wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for dewatering discharge; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

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

Facility Name: Bridgewater State College, Conant Science Building Expansion

Operator signature: 

Title: Site Superintendent, Barr & Barr

Date: 10/26/09

Federal regulations require this application to be signed as follows:

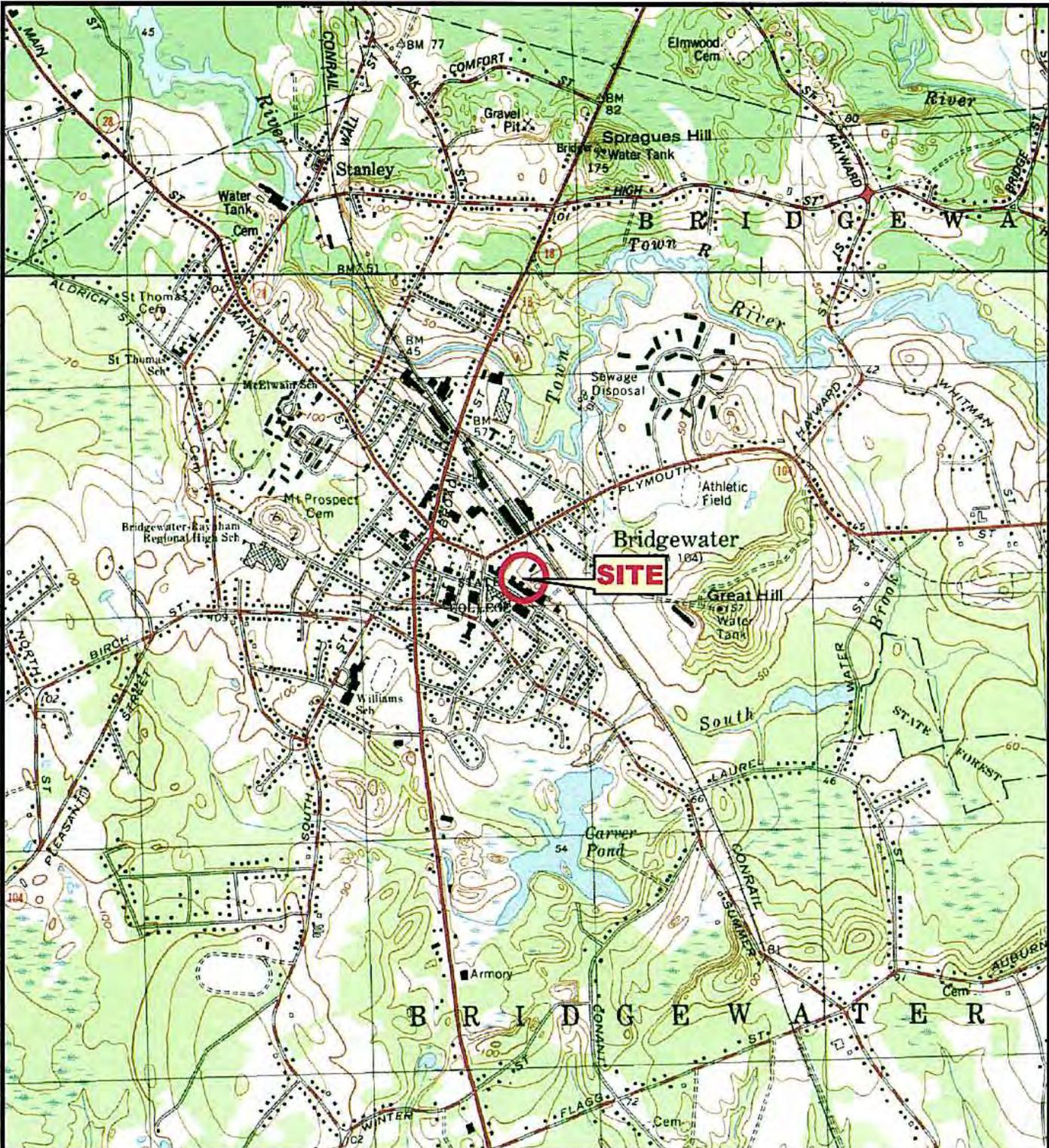
1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer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

ATTACHMENT A

Figure 1

- A site locus plan.
- Aerial photograph including topographic features showing the location of the Site where dewatering will occur and the path to the outfall at the nearby Town River, in Bridgewater, Massachusetts.
- Site plan showing stormwater discharge lines to be used for the work.
- Plan showing the Taunton River basin and the associated River Category B.

J:\170,000-179,999\170055\170055-00_AJ\Figures\GIS\IMXD\170055-00_LOCUS-v1_F01.mxd



USGS QUADRANGLE LOCATION

SOURCE : SCANNED USGS TOPOGRAPHIC QUADRANGLES
SCANNED BY THE MASSACHUSETTS EXECUTIVE OFFICE OF
ENVIRONMENTAL AFFAIRS, MASSGIS. DISTRIBUTED JUNE, 2001.

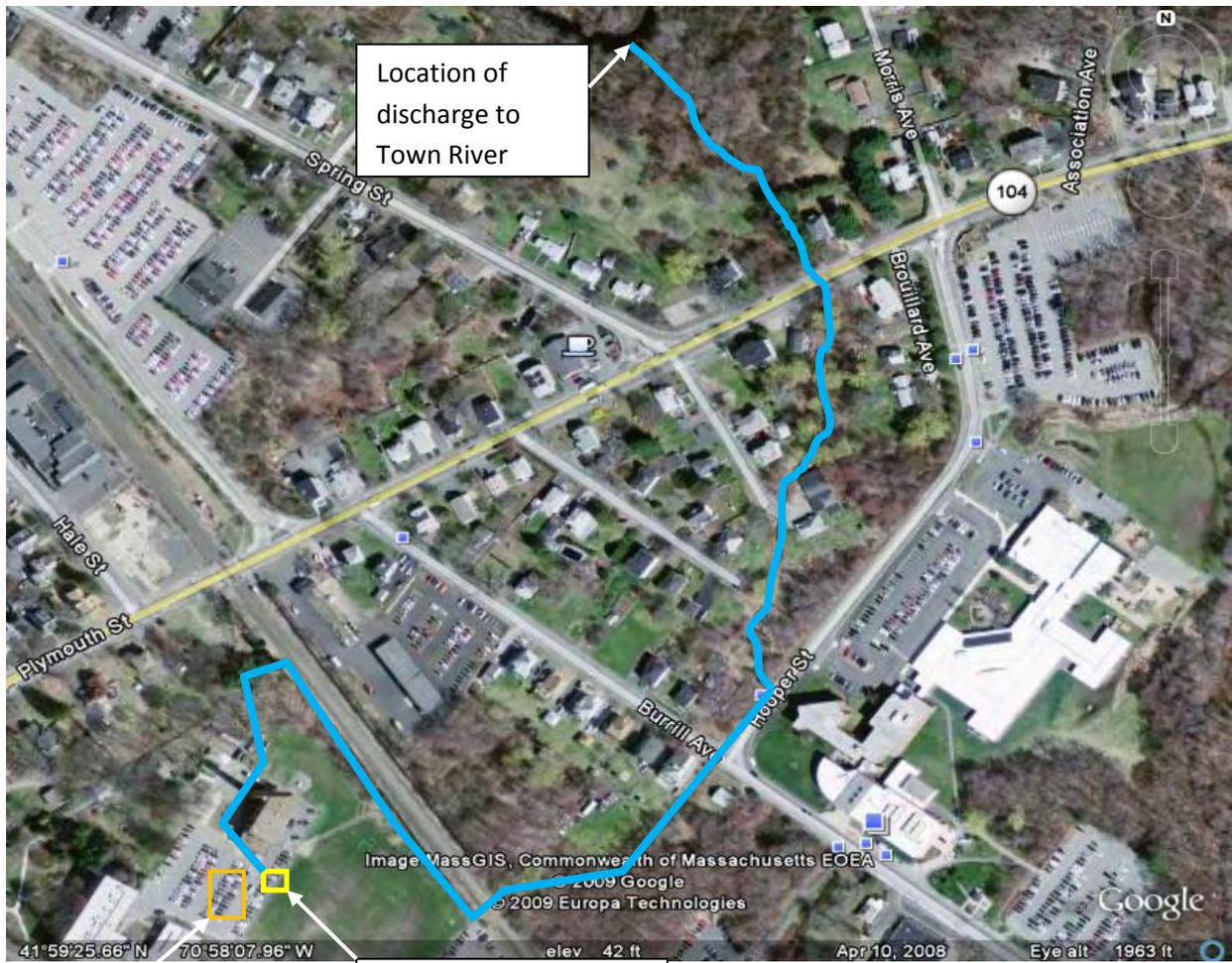
Data Supplied by :



PROJ. MGR.: AJ
DESIGNED BY: AJ
REVIEWED BY: AJ
OPERATOR: EMD
DATE: 02-17-2009

LOCUS PLAN
BRIDGEWATER STATE COLLEGE - MARSHALL CONANT SCIENCE BUILDING EXPANSION
PARK AVENUE
BRIDGEWATER, MASSACHUSETTS

JOB NO.
01.0170055.00
FIGURE NO.
1



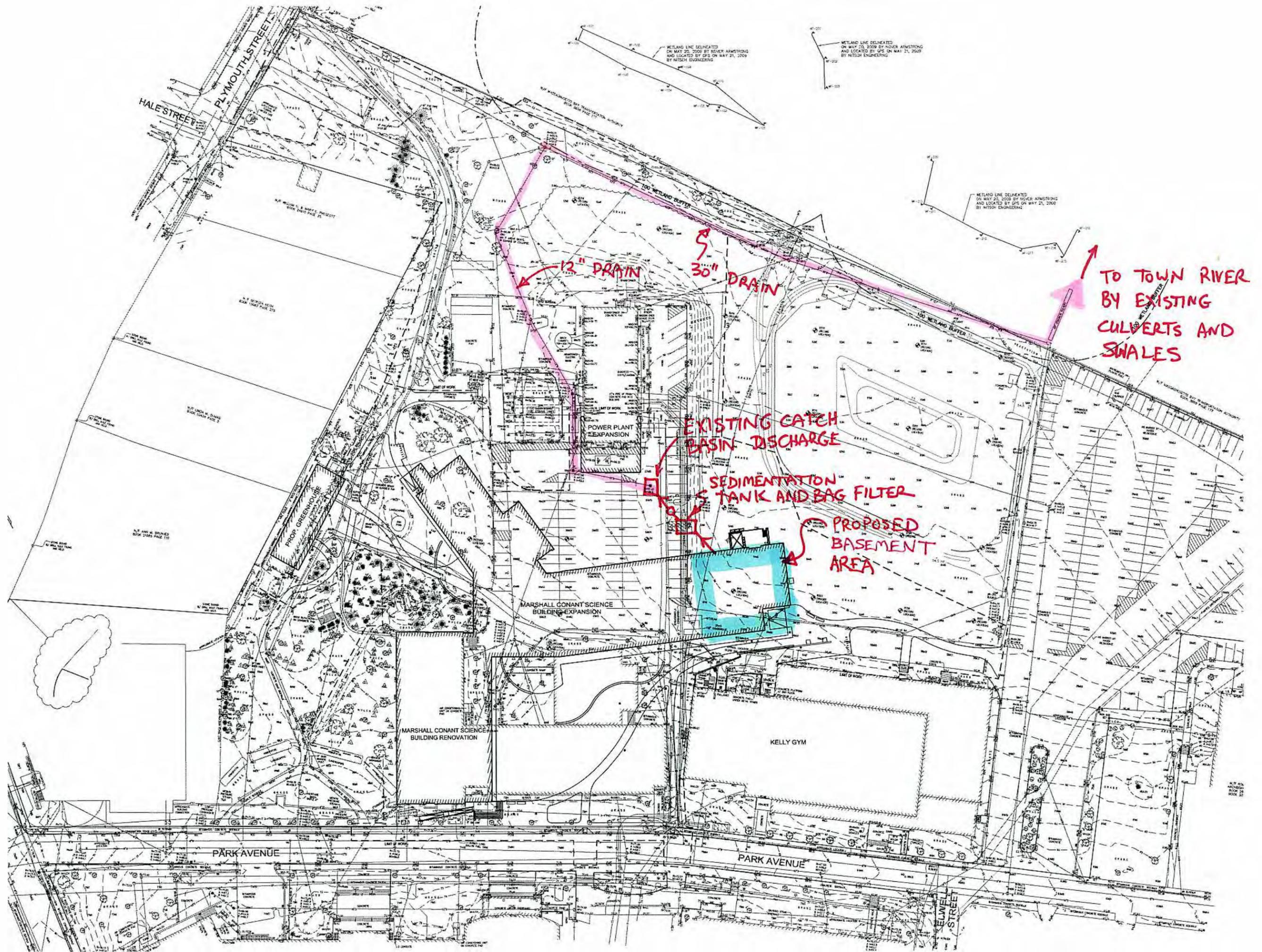
Construction dewatering location

Dewatering discharge to catch basin post-treatment

Plan Showing Route of Dewatering Discharge to Catch Basin (post-treatment) and Route to Receiving Water (Town River)

Bridgewater State College

Bridgewater, Massachusetts



WETLAND LINE DELINEATED ON MAY 20, 2009 BY ROYCE ARMSTRONG AND LOCATED BY GPS ON MAY 21, 2009 BY NITSOH ENGINEERING

WETLAND LINE DELINEATED ON MAY 20, 2009 BY ROYCE ARMSTRONG AND LOCATED BY GPS ON MAY 21, 2009 BY NITSOH ENGINEERING

WETLAND LINE DELINEATED ON MAY 20, 2009 BY ROYCE ARMSTRONG AND LOCATED BY GPS ON MAY 21, 2009 BY NITSOH ENGINEERING

12" DRAIN

30" DRAIN

TO TOWN RIVER BY EXISTING CULVERTS AND SWALES

EXISTING CATCH BASIN DISCHARGE

SEDIMENTATION TANK AND BAG FILTER

PROPOSED BASEMENT AREA

HALE STREET

PLYMOUTH STREET

PARK AVENUE

PARK AVENUE

ELWELL STREET

MARSHALL CONANT SCIENCE BUILDING EXPANSION

MARSHALL CONANT SCIENCE BUILDING RENOVATION

KELLY GYM

POWER PLANT EXPANSION

PROP. GREENHOUSE

4.06: continued



LEGEND

- (A) (B) (SA) (SB) Class
- Change in Class
- River, Stream, Coastline
- Lake, Pond, Reservoir
- Basin Boundary
- Town Boundary

Figure 14
TAUNTON
RIVER BASIN

Miles

0 2.5 5 10 15

4.06: continued

TABLE 14
TAUNTON RIVER BASIN

<u>BOUNDARY</u>	<u>MILE POINT</u>	<u>CLASS</u>	<u>QUALIFIERS</u>
<u>Taunton River</u>			
Source to Rt. 24 Bridge	40.8 - 21.2	B	Warm Water
Rt. 24 Bridge to mouth	21.2 - 0.0	SB	Shellfishing CSO
<u>Salisbury Plain & Matfield Rivers</u>			
Brockton WWTF to confluence	-	B	Warm Water
<u>Town River</u>			
Bridgewater WWTF to confluence	2.4 - 0.0	B	Warm Water
<u>Nemasket River</u>			
Middleborough WWTF to confluence	-	B	Warm Water
<u>Saw Mill Brook</u>			
Entire Length	1.5 - 0.0	B	Warm Water
<u>Mill River</u>			
Outlet Lake Sabbatia, Taunton to confluence with Taunton River	3.4 - 0.0	B	Warm Water
<u>Three Mile River</u>			
Source to confluence	15.8 - 0.0	B	Warm Water
<u>Wading River (Attleboro Reservoir)</u>			
Source to water supply intake in Mansfield and tributaries thereto		A	Public Water Supply
From water supply intake, Mansfield to confluence with Three Mile River		B	Warm Water
<u>Assawompset Pond</u>			
Source to outlet in Lakeville and those tributaries thereto	-	A	Public Water Supply
<u>Great Quittacas Pond</u>			
Source to outlet in Lakeville and those tributaries thereto	-	A	Public Water Supply

4.06: continued

TABLE 14
TAUNTON RIVER BASIN (continued)

<u>BOUNDARY</u>	<u>MILE POINT</u>	<u>CLASS</u>	<u>QUALIFIERS</u>
<u>Little Quittacas Pond</u>			
Source to outlet in Lakeville and those tributaries thereto	-	A	Public Water Supply
<u>Long Pond</u>			
Source to outlet in Lakeville and those tributaries thereto	-	A	Public Water Supply
<u>Pocksha Pond</u>			
Source to outlet in Lakeville and those tributaries thereto	-	A	Public Water Supply
<u>Somerset Reservoir</u>			
Source to outlet in Somerset and those tributaries thereto including Segreganset River from pumping station, Dighton to source	-	A	Public Water Supply
<u>Monponsett Pond</u>			
Source to outlet in Halifax and those tributaries thereto	-	A	Public Water Supply
<u>Elders Pond</u>			
Source to outlet in Lakeville and those tributaries thereto	-	A	Public Water Supply
<u>Brockton Reservoir (Avon Reservoir, Salisbury Brook Reservoir)</u>			
Reservoir to outlet in Avon and those tributaries thereto	-	A	Public Water Supply