Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part I: General Conditions

General Information

Name of Municipality or Organization: Wrentham Development Center State: MA

EPA NPDES Permit Number (if applicable): MAR042030

Primary MS4 Program Manager Contact Information

Name: Michael Gardner Title: Director of Operations

Street Address Line 1: P.O. Box 144

Street Address Line 2: 105 North Street

City: Wrentham State: MA Zip Code: 02093

Email: michael.gardner@state.ma.us Phone Number: (508) 384-5536

Fax Number: (508) 384-1659

Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed): 105 North Street, Wrentham, MA 02093

Eligibility Determination

Endangered Species Act (ESA) Determination Complete? Yes Eligibility Criteria (check all that apply): ☐ A ☐ B ☒ C

National Historic Preservation Act (NHPA) Determination Complete? Yes Eligibility Criteria (check all that apply): ☒ A ☐ B ☐ C

☑ Check the box if your municipality or organization was covered under the 2003 MS4 General Permit

MS4 Infrastructure (if covered under the 2003 permit)

Estimated Percent of Outfall Map Complete? *(Part II, III, IV or V, Subpart B.3.(a.) of 2003 permit)* 100%

If 100% of 2003 requirements not met, enter an estimated date of completion (MM/DD/YY): 06/29/18

Web address where MS4 map is published: see pdf copy of this map, attached.

If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission (see section V for submission options)

Regulatory Authorities (if covered under the 2003 permit)

Illicit Discharge Detection and Elimination (IDDE) Authority Adopted? *(Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit)* No

Effective Date or Estimated Date of Adoption (MM/DD/YY):

Construction/Erosion and Sediment Control (ESC) Authority Adopted? *(Part II,III,IV or V, Subpart B.4.(a.) of 2003 permit)* Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 01/01/14

Post- Construction Stormwater Management Adopted? *(Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)* No

Effective Date or Estimated Date of Adoption (MM/DD/YY):

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part II: Summary of Receiving Waters

Please list the waterbodies to which your MS4 discharges. For each waterbody, please report the number of outfalls discharging into it and, if applicable, the segment ID and any impairments.

Massachusetts list of impaired waters: Massachusetts 2014 List of Impaired Waters- http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf

Waterbody that receives flow from the MS4 and segment ID if applicable	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Meadow Brook (not listed in the "Massachusetts 2014 Integrated List of Waters") which flows south to Crocker Pond (Taunton River Watershed). See attached notes.	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
An unnamed stream which flow north to the Stop River, (Charles River Watershed). See attached notes.	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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Click to lengthen table

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs). For municipalities/organizations whose MS4 discharges into a receiving water with an approved Total Maximum Daily Load (TMDL) and an applicable waste load allocation (WLA), identify any additional BMPs employed to specifically support the achievement of the WLA in the TMDL section at the end of part III.

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also requires a target audience). **Use the drop-down menus in each table or enter your own text to override the drop down menu.**

MCM 1: Public Education and Outreach

BMP Media/Category (enter your own text to override the drop down menu)	**BMP Description**	**Targeted Audience**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal**	**Beginning Year of BMP Imple-mentation**
Brochures/Pamphlets	Fact Sheet Newsletter	Residents	Environment Department	gain awareness & feedback, maintain annual distribution	2017
		Businesses, Institutions and Commercial Facilities			
		Developers (construction)			
		Industrial Facilities			
Displays/Posters/Kiosks	Notice posted in the food and cleaning services building	Residents, Employees	Environment Department	gain awareness & feedback on proper disposal practices	2017
		Businesses, Institutions and Commercial Facilities			
		Developers (construction)			
		Industrial Facilities			
Brochures/Pamphlets	present a stormwater fact sheet to each new employee at orientation	Employees	Environment Department	gain awareness & feedback on proper disposal practices	2017

Displays/Posters/Kiosks	updated stormwater map	General Public	Environment Department	gain awareness & feedback on the facility's stormwater system	2017
School Curricula/Programs	maintain stormwater education center in the compliance office	Employees	Environment Department	gain awareness of the facility's stormwater system and proper disposal practices	2017

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 2: Public Involvement and Participation

BMP Categorization	Brief BMP Description (enter your own text to override the drop down menu)	Responsible Department/Parties (enter your own text to override the drop down menu)	Additional Description/ Measurable Goal	Beginning Year of BMP Imple-mentation
Public Review	Annual Stormwater Report	Environment Department	Annual report is made available within the facility's "Crossroads" newsletter	2017
Public Participation	Public Meeting - Stormwater	Environment Department	Hold an Annual Stormwater and Spill Prevention Meeting	2017
Public Participation	Partnership - Internal Service Groups	Environment Department	Designate person per shift within food and cleaning services groups at facility	2017
Public Participation	Cleanups - Facility / General	Environment Department	Add & maintain cigarette butt containers within facility grounds	2017
Public Participation	Stormwater Program Volunteers	Environment Department	Volunteers are requested per unit per shift by supervisory personnel	2017
Public Participation	Partnership - Internal Service Groups - security	Environment Department	Security training & awareness: Security supervisor attends the Annual Stormwater and Spill Prevention meeting to gain information and establish procedures for reporting of, and response to incidents	2017
Public Participation	Training	Environment Department	Spot meetings and general oversight; train Transport, Grounds, Paint, and all Maintenance Depts	2017

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

BMP Categorization (enter your own text to override the drop down menu)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
SSO inventory	sewer system map has been created	Environment Department	Complete within 1 year of effective date of permit	2018
Storm sewer system map	Create map and update during IDDE program completion (stormwater system map has been created)	Environment Department	Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit	2018
Written IDDE program development	Create written IDDE program - IDDE procedures, and ranking of outfalls for IDDE investigation	Environment Department	Complete within 1 year of the effective date of permit and update as required	2018
Implement IDDE program	Implement catchment investigations according to program and permit conditions	Environment Department	Complete 10 years after effective date of permit	2019
Employee training	Train employees on IDDE implementation	Environment Department	Train annually	2019
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions	Environment Department	Complete 3 years after effective date of permit	2019
Conduct wet weather screening	Conduct in accordance with outfall screening procedure	Environment Department	Complete 10 years after effective date of permit	2019
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	Environment Department	Complete ongoing outfall screening upon completion of IDDE program	2019

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 4: Construction Site Stormwater Runoff Control

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Complete written procedures of site inspections and enforcement procedures	Environment Department	Complete update of procedures by the end of Year 1	2016
Site plan review	All site improvements and modifications are currently reviewed prior to work proceding	Environment Department	Continue with site improvement review	2016
Erosion and Sediment Control	Have adopted of requirements for construction operators to implement a sediment and erosion control program	Environment Department	Continue to insert construction controls & penalties in contract documents; and continue compliance monitoring	2016
Waste Control	Have adopted of requirements for to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes.	Environment Department	Continue to insert contruction controls & penalties in contract documents; and continue compliance monitoring	2016

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
As-built plans for on-site stormwater control; and compliance with good stormwater practices	Establish procedures to require submission of as-built drawings; and ensure long term operation and maintenance will be a part of the SWMP.	Environment Department	Require submission of as-built plans and O&M plans for completed projects; and conduct post-construction monitoring	2018
Estimation of impervious and directly connected impervious areas (IA and DCIA) ; and target properties to reduce impervious areas	Estimate and update the baseline values or DCIA and IA including conventional pavements, sidewalks, driveways, roadways, parking lots, and rooftops.	Environment Department	Complete 4 years after effective date of permit and report annually on retrofitted properties	2018
Inventory and priority ranking of areas tributary to critical outfalls that may be retrofitted with BMPs	Conduct detailed inventory of MS4 owned areas and rank for retrofit potential	Environment Department	Complete 4 years after effective date of permit and implement recommendations of report	2019
Allow green infrastructure	Conduct detailed inventory of MS4 owned areas and rank for retrofit potential when appropriate site conditions exist	Environment Department	Complete 4 years after effective date of permit and implement recommendations of report	2020

Street design and parking lot guidelines	Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to facility design standards for streets and parking lots can be modified to support low impact design options.	Environment Department	Complete 4 years after effective date of permit and implement recommendations of report	2020
Post-Construction Design Standards	Establish post-contruction design standards, contorls and penalties in contract documents to ensure stormwater controls on new development and redevelopment minimize impacts to water quality	Environment Department	Complete 4 years after effective date of permit and implement recommendations of report	2020

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 6: Municipal Good Housekeeping and Pollution Prevention

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
Facility O&M and Best Practices Plan	Create written O&M procedures for stormwater assets at WDC open spaces, buildings and facilities, and vehicles and equipment	Environment Department	Complete and implement 2 years after effective date of permit	2019
Inventory all permittee-owned open spaces, buildings and facilities (including their storm drains), and vehicles and equipment	Inventory & assessment of condition of WDC stormwater system assets	Environment Department	Complete 2 years after effective date of permit and implement annually	2019
Infrastructure O&M - Establish and implement program for repair and rehabilitation of MS4 infrastructure	Prepare a capital improvement plan (CIP) for stormwater system assets (based on the asset inventory & condition assessment)	Environment Department	Complete 2 years after effective date of permit	2019
Stormwater Pollution Prevention Plan (SWPPP) for maintenance areas, dumpster or trash compactor areas, and other waste-handling facilities	Create written plan & procedures for storm water management at WDC open spaces, buildings and facilities, and vehicles and equipment	Environment Department	Complete and implement 2 years after effective date of permit	2019
Catch basin cleaning	Continue Annual CB Cleaning Contract; and establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule.	Environment Department	Annually renew private CB cleaning contract; monitor for proper contract performance; and report number of catch basins cleaned and volume of material moved annually	2018

Street sweeping program	Sweep all streets and permitee-owned parking lots in accordance with permit conditions. Town of Wrentham to clean public roads and some parking areas; and all other facility areas to be contracted out	Environment Department	Sweep all streets and permitee-owned parking lots once per year in the spring. Continue to work with Town of Wrentham and private contractor hired for sweeping & cleaning; monitor for proper performance	2018
Road salt use optimization program	Establish and implement a program to minimize the use of road salt	Environment Department	Limit salt use; store sand, salt in contained areas; and monitor applications to minimize use of sand and salt; or, use alternative snow-ice management BMPs	2018
O&M Program (General)	inspect & clean trash and debris from parking lots and roadside culverts	Environment Department	Continue to work with WDC staff and private contractors hired for site cleaning; monitor for proper results.	2018
O&M Program (Public BMP Maintenance)	Stormwater infrastructure maintenance (also see CB cleaning above)	Environment Department	Inspect all stormwater treatment structures (excluding CBs) if any, and maintain same as necessary	2019

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

Applicable TMDL	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Requirements Related to Water Quality Limited Waters

Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. In addition, if you are subject to additional requirements due to a downstream nutrient impairment (see Part 2.2.2 of the permit) select the pollutant of concern and indicate applicable waterbody IDs or write "all waterbodies" if applicable. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

Pollutant	Waterbody ID(s)	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)

Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.1and 2.2.2 that you have identified as not applicable to your MS4 because you do not discharge to the impaired water body or a tributary to an impaired water body due to nitrogen or phosphorus. Provide all supporting documentation below or attach additional documents if necessary.
Also, provide any additional information about your MS4 program below.

There are no TMDL requirements for the surface waters that receive stormwater discharge from WDC drainage system outfalls. Also, several WDC site outfalls direct stormwater to areas that are contained on site, where storage, evaporation, and infiltration of collected stormwater occurs. These outfalls are #'s 2, 3, 4 & 5 as noted on the Storm Drainage Mapping plan dated June 2018. WDC will continue to monitor these areas to ensure that overflows do not occur and/or that these areas do not contribute surface flow to either the Charles River Watershed or the Taunton River Watershed.

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part V: Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:	Michael Gardner	Title:	Director of Operations
Signature:	Michael Gardner	Date:	09/28/18

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

Note: When prompted during signing, save the document under a new file name

ADDENDA TO THE 2018 NOTICE OF INTENT (NOI) FOR WRENTHAM DEVELOPMENTAL CENTER (WDC), WRENTHAM, MA

EPA NPDES SMALL MS4 PERMIT MAR042030

Part I: General Conditions

ESA Determination: See the attached IPaC Resource List obtained from the U.S. Fish & Wildlife Service website screening process which indicates that there is one (1) Threatened Species, the Northern Long-eared Bat (Myotis septentrionalis) that is potentially present at the permitted site. Compliance with the NPDES Small MS4 Permit will not impact the above noted endangered species

MS4 Infrastructure

- Outfall Map: See attached PDF copy
- Regulatory Authorities: As a State Facility, implementation of bylaws and regulations is not directly applicable, however appropriate policies and procedures have been and will be adopted

Part II: Summary of Receiving Waters

There are two (2) receiving waters for stormwater discharges from the WDC campus:

(1) An unnamed stream that flows northward to Stop River (within the Charles River Watershed), and

(2) Meadow Brook which flows southward to Crocker Pond. Meadow Brook is not listed as a waterway in the *"Massachusetts Year 2014 Integrated List of Waters"*; and Crocker Pond is listed as a Category 4c Water "Impairment not caused by a pollutant – TMDL not required".

Part III: Stormwater Management Program Summary

MCM 1 and MCM 2

The Wrentham Developmental Center (WDC) is a state-run medical facility for the treatment of psychiatric and developmental disorders. It is located on a large campus at the junction of Emerald and North Streets in Wrentham, Massachusetts (the Site). As such, the "targeted audiences" at WDC are residents, employees, and occasional contractors that may perform work at the Site. Other categories noted within the NOI, i.e. Businesses, Institutions and Commercial Facilities, Developers, and Industrial Facilities, are not relevant to this permit.

MCM-5

The post construction requirements are not very applicable to WDC given the nature of the site as a state owned long term care facility that is not likely to be subject to expansion or modification.

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

There are no TMDL requirements for the surface waters that receive stormwater discharge from WDC drainage system outfalls. Also, several WDC site outfalls direct stormwater to areas that are contained on site, where storage, evaporation, and infiltration of collected stormwater occurs. These outfalls are #'s 2, 3, 4 & 5 as noted on the Storm Drainage Mapping plan dated June 2018. WDC will continue to monitor these areas to ensure that overflows do not occur and/or that these areas do not contribute surface flow to either the Charles River Watershed or the Taunton River Watershed.

Attachments to NOI: Attachment 1-Locus Map_Google Earth.pdf, Attachment 2-natural_resources_locus map.pdf, and Attachment 3-wrentham_dc_stormwater_contour_wetland_w-outfall notes.pdf

Untitled Map
Write a description for your map.
Legend
Cable Lan Products
Extra Innings Baseball
Feature 1
Feature 2
Feature 3
Feature 4
Feature 5
Fore Kicks Inc
Horse N' Carriage
King Philip Regional High School
Norwood Moving and Storage
Provo Discount Liquors
Route
WDIS AM 1170
Whispering Pines Animal Hospital
Mirror Lake
Wrentham
Developmental Center,
Small MS4 Area
Beaverbrook Rd
Mirror Lake Ave
Spruce Rd
Ash Rd
Shear St
Walnut Rd
Cypress Rd
Grove Ave
Holly Ln
Willow Ln
Bryant Ave
Finch Rd
Proulx
Patterson Rd
Curtis Ave
Emerald St
North St
Aldis Ln
Blake Rd
Harvard Ln
Lake St
Archer St
Franklin St
Dedham St
Winter St
Lyndon Rd
Crocker Pond Rd
Federico Dr
Everett St
Vine St
Foxboro Rd
Sharon Ave
Shire Dr
Cushing Dr
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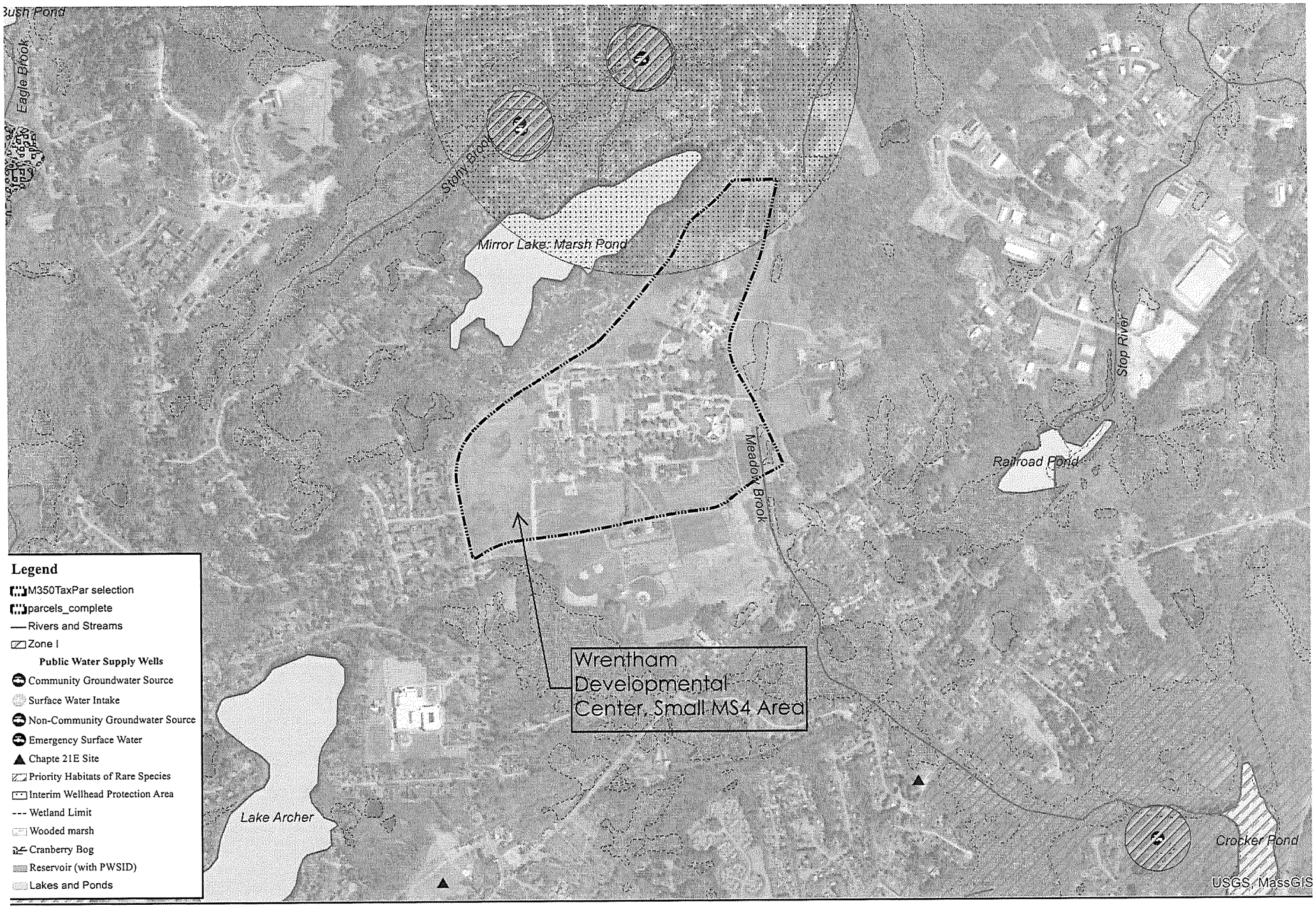

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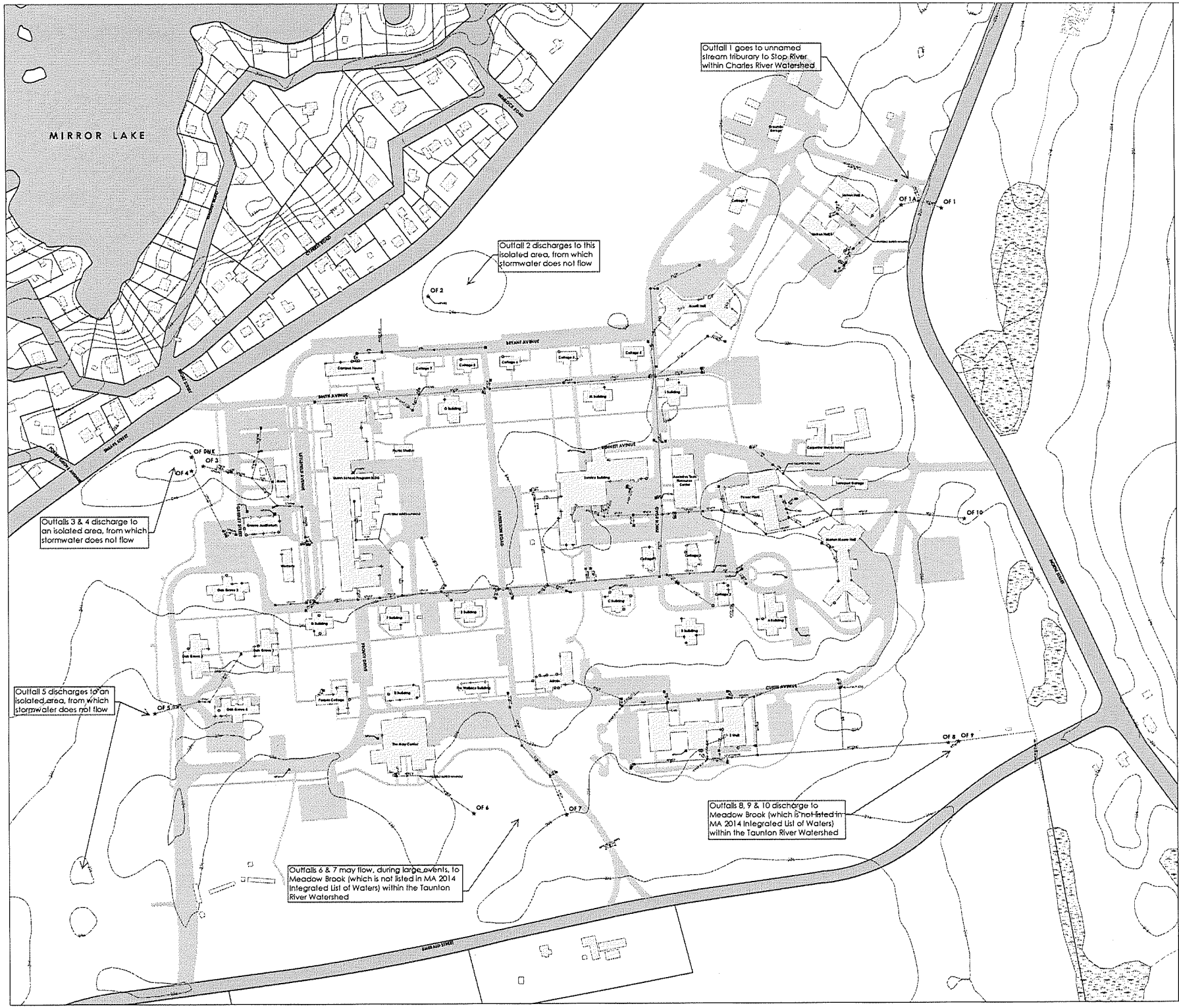

WRENTHAM DEVELOPMENTAL CENTER

STORM DRAINAGE MAPPING

N W E S

100 50 0 100 Feet

1 inch = 100 feet

LEGEND

- BUILDINGS
- 10-FOOT CONTOUR
- WRENTHAM DEVELOPMENT CENTER IMPERVIOUS SURFACE

WRENTHAM DEVELOPMENT CENTER DRAINAGE

- AREA DRAIN
- CATCH BASIN
- CULVERT OPENING
- DRAIN MANHOLE
- DOWNSPOUT - CONNECTS TO BUILDING FOUNDATION
- DOWNSPOUT - CONNECTS TO GROUND
- DOWNSPOUT - SPLASHES TO GROUND
- DOWNSPOUT - OPEN PIPE (ABANDONED)
- OUTFALL
- DRAIN PIPE
- DRAINAGE DITCH

BLF WETLANDS (2008)

- SHALLOW MARSH MEADOW OR FEN
- WOODED SWAMP DECIDUOUS
- HYDROLOGIC CONNECTIONS

ABBREVIATIONS

CONC	CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
CU	COVERED HOT OPEN
HDPE	HIGH DENSITY POLYETHYLENE PIPE
MP	METAL PIPE
NPV	NO PIPES VISIBLE IN STRUCTURE
NPV (B)	NO PIPES VISIBLE IN STRUCTURE (BURIED)
CI	CAST FE
PS	PS VITRIC PIPE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
SPR	UNKNOWN PIPE MATERIAL/SIZE
VCP	VITRIFIED CLAY PIPE

DATA SOURCES:

1) BUILDINGS, CONTOURS, PARCELS, ROADS, AND WETLANDS DATA PROVIDED BY MASSGIS.

2) DRAINAGE DATA WAS COLLECTED AND MAPPED BY STANTEC CONSULTING SERVICES, INC. DURING APRIL AND MAY OF 2018.

3) IMPERVIOUS SURFACE DATA DERIVED BY STANTEC CONSULTING SERVICES, INC.

DRAINAGE SYSTEM DATA

- 115 CATCH BASINS
- 12 OUTFALLS
- 45 DRAIN MANHOLES
- APPROX 2.9 MILES OF PIPE

The information on this map has been compiled by Stantec staff from various sources and is subject to change and updating. Stantec makes no warranties, guarantees or representations as to the validity, accuracy, completeness, timeliness, or rights in the use of such information.

JUNE 2018

Stantec

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