

Municipality/Organization: Town of Palmer

EPA NPDES Permit Number: MA 041017

MassDEP Transmittal Number: W-X265901

Annual Report Number Year 14
& Reporting Period: April 1, 2016 – March 31, 2017

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2017)

Part I. General Information

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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: Charles T. Blanchard

Printed Name: CHARLES T. BLANCHARD

Title: TOWN MANAGER

Date: 5/1/17

Part II. Self-Assessment

In Year 14, the Town of Palmer continued to be an active participant in the Central Massachusetts Regional Stormwater Coalition (the Coalition). The Coalition's work in Year 14 (which overlaps municipal fiscal years 2016 and 2017) was funded entirely by contributions of approximately \$4,000 from each of the 28 participating Towns, including Palmer.

Overview of the Coalition

The FY2016/2017 Coalition included 28 towns: Auburn, Boylston, Charlton, Dudley, Grafton, Hardwick, Holden, Hopkinton, Leicester, Millbury, Northborough, Northbridge, Oxford, Palmer, Paxton, Rutland, Shrewsbury, Southbridge, Spencer, Sterling, Sturbridge, Upton, Uxbridge, Ware, Webster, West Boylston, Westborough, and Wilbraham. The Coalition was officially formed in FY2012 with 13 members, expanding to 30 in FY2013. The FY2016 Coalition will be comprised of 31 towns with the recent additions of Framingham, Lunenburg, and Marlborough.

The Year 14 work of the Coalition focused on implementation and preparation.

- The implementation aspects included eight hours of one-on-one time, in which each member was provided with dedicated time from consultants that could be used for whatever was most needed. Many towns asked for a review and update of their Illicit Discharge Detection and Elimination (IDDE) Plans, while others chose to have a "Field Day" training, where they received refresher training on the use of the field screening kits and/or the online mapping and inspection system.
- The preparation aspects included work to both understand the technical components of the pending (at the time) Massachusetts MS4 Permit as well as how they will continue to afford the new Permit.
 - The group hosted a September 3, 2015 workshop by Keith Readling of Raftelis Financial Consultants, who has assisted more communities develop a stream of dedicated funding for stormwater management than anyone else. The objective was not to force the concept of a "stormwater utility", but to get community leaders thinking of stormwater funding as an enterprise, similar to how many already manage sanitary sewer funds.
 - The Coalition continues work on a Stormwater Program cost assessment for member towns, with most already being delivered. This task looks at what the community is actually spending on stormwater management, including staff labor (across many departments and positions), operations and maintenance, equipment costs (rental and depreciation), and third party vendors and consultants.

An update for all member communities was also presented at a meeting on September 3, 2015 prior to the stormwater funding workshop.

Coalition members themselves continue to be responsible for putting to use the tools developed by the Coalition.

The Coalition's Partnerships in Central Massachusetts

The Coalition continues to be actively engaged with many water quality agencies and organizations and is committed to sharing the knowledge it has developed for the benefit of other communities. These efforts are discussed in following sections as they relate to the following organizations:

- Massachusetts Department of Environmental Protection (MassDEP)
- United States Environmental Protection Agency (USEPA)
- Other Massachusetts Stormwater Coalitions
- New England Water Environment Association (NEWEA)
- Massachusetts Municipal Association (MMA)

Additional organizations and entities are mentioned elsewhere throughout this Annual Report, reflecting the wide network of knowledge and experience that the Coalition has tapped into.

Massachusetts Department of Environmental Protection (MassDEP)

The Coalition continued its partnership with the MassDEP in FY2014/2015, most recently announcing the receipt of a \$50,000 Stormwater Technical Assistance grant from the department. This grant will be used to develop training elements and outreach tools that target new or expanded elements in the new permit, and that can be used by communities across the Commonwealth.

MassDEP staff continue to attend CMRSWC Steering Committee events and make themselves available for technical assistance. The Coalition appreciates the ongoing dedication of MassDEP to work with our members so closely and collaboratively.

In FY2016, the CMRSWC hopes to develop another Interactive Qualifying Project (IQP) with students from the Worcester Polytechnic Institute (WPI). One potential concept for a FY2016 project is to work with MassDEP stormwater and solid waste staff to develop a streamlined method to determine appropriate beneficial reuse of street sweepings and/or grit from catch basin cleaning activities, thereby turning a material that can be costly to dispose into a source of revenue to our members.

United States Environmental Protection Agency

The Coalition continued collaboration with technical assistance staff in USEPA Region 1, with the goal of benefiting from knowledge and experience of the agency's staff and from its network. We appreciate the support of these agency staff, and believe this positive communication resulted in some modifications to the new MA MS4 permit (released on April 4, 2016) that make it more reasonable while still benefiting and protecting water quality.

Other Massachusetts Stormwater Coalitions

The Coalition continues to coordinate with "sister" groups with a similar stormwater focus. These include:

- The Merrimack Valley Stormwater Collaborative (coordinated by the Merrimack Valley Regional Planning Commission);
- The Neponset Stormwater Partnership (coordinated by the Metropolitan Area Planning Council and the Neponset River Watershed Association);
- The Northern Middlesex Stormwater Collaborative (coordinated by the Northern Middlesex Council of Governments);
 - The Connecticut River Stormwater Committee (through the Pioneer Valley Planning Commission); and
 - The Southeastern Massachusetts Stormwater Collaborative (coordinated by the Southeastern Regional Services Group)

Many members of these groups were invited to attend the September 2015 stormwater funding workshop, and the facilitators of these different

collaboratives have made the effort to inform the other groups of events they're hosting.

Importantly, these separate regional groups met twice in Year 14- on June 23, 2015 and September 17, 2015- to compare notes on activities in progress and share ideas on future collaborations. This statewide partnership will be expanding in Year 14.

Massachusetts Municipal Association (MMA)

Members of the Coalition have been active in the MMA for years, including Robin Craver, Town Administrator for Charlton, MA and an active Coalition leader, who is the Chair of MMA's Policy Committee on Energy and the Environment. This Committee formulates policy related to stormwater, water quality, water supply, wetlands, coastal areas, and other related environmental issues and represents a way for the Coalition to learn from (and share) ideas around the Commonwealth.

Tasks Included in this Annual Report

In the following sections, descriptions of the technical tasks and resources performed by the CMRSWC in Year 14 have been separated into sections that mirror the six Minimum Control Measures (MCM's) in the 2003 Massachusetts Small MS4 Permit.

One of the more innovative tools developed by the Coalition- one that spans across multiple MCM's- is the integrated online mapping and inspection database, hosted by PeopleGIS. The database is cloud-based, and can be accessed by all 28 member communities through a desktop or tablet computer.

In Year 14, we observed that Coalition members expanded use of this resource, primarily by beginning the process of mapping linear infrastructure (like pipes and culverts) and doing more catch basin inspections using the tools. Both of these tasks are key to preparing to increase mapping and to perform the catchment evaluation process included in the 2016 MA MS4 Permit.

As noted in last year's report, this platform does not fit into just one of the MCM's. It aids communities with public education and outreach (MCM 1), as surveying is a highly-visible activity that will generate questions, and is an engaging demonstration to school groups. The integrated mapping and inspection database documents evidence of potential illicit discharges or the absence thereof (MCM 3), aids construction site stormwater control (MCM 4) by allowing for evaluation of how much sediment is contained in a sump, and makes good housekeeping (MCM 6) easier by collecting data on how often catch basins are cleaned. Other tasks and tools of the project connect to the integrated mapping and inspection database, which was designed to serve the needs of the Coalition communities well beyond the 2003 Massachusetts Small MS4 Permit. Each of the online forms is fluid- they will continue to be revised, as needed, to meet the goals of the Coalition members and future Massachusetts MS4 Permit requirements.

Minimum Control Measure 1: Public Education and Outreach

Year 14 activities included routine meetings of the Coalition's Steering Committee.

In Year 14, the Coalition purchased copies of the "Water Blues, Green Solutions" documentary (<http://waterblues.org/about>) for each member town, on DVD.

An exciting tool for public education continues to be the Coalition's Twitter account, [@MAStormH2O](#). As of the date of this report, the Coalition's account has 96 followers, including other stormwater coalitions around the country. Information tweeted (or retweeted) by the Coalition in Year 14 addressed such water quality topics and issues as:

- Stormwater infrastructure funding

- Nutrient credits and trading
- Sharing public service announcements (PSA's) developed by our member communities and partners
- Impact of leaking sanitary sewers on stormwater and water quality
- Low Impact Development (LID) workshops and training courses held by partners in or near our member communities

Many of our member communities and regional agencies follow [@MAStormH2O](#) and retweet our information, greatly expanding the audience reached by the message. We anticipate using this tool in the future to quantify the size of the audience reached by each message, and evaluating the success of the message.

In Year 14, the Coalition expanded its efforts to educate the public and other communities about its work. This includes the following presentations and events, listed in chronological order:

- On May 12, 2015, Robin Craver (Charlton, MA) presented at the 6th Annual Water Resources Strategies Symposium, hosted by the Massachusetts Coalition for Water Resources Stewardship, sharing information on stormwater program costs and ways to create regional efficiencies.
- On May 15, 2015, a Coalition consultant did a presentation to the New England Interstate Water Pollution Control Commission (NEIWPCC) at its Board meeting in Bolton, MA.
- On June 26, 2015, Robin Craver (Charlton, MA) and a Coalition consultant did a presentation to the Central Massachusetts Regional Planning Commission at its Summer Legislative Breakfast, in Worcester, MA.
- On July 13, 2015, a Coalition consultant did a presentation to the National Association of Clean Water Agencies at its Summer Conference in Providence, Rhode Island.
- On November 18, 2015, Robin Craver (Charlton, MA) and a Coalition consultant did a presentation at the “*Community Stormwater Solutions*” conference, hosted at Worcester Polytechnic Institute by the Massachusetts Watershed Coalition.

Several Coalition members chose to use some of their “one-on-one” to expand their efforts on this MCM. Updates will be provided in future Annual Reports.

In Year 14, Palmer continued to utilize water quality monitoring kits from the World Water Monitoring Challenge program (www.worldwatermonitoringday.org), purchased by the Coalition in Year 10. These kits “build public awareness and involvement in protecting water resources around the world by engaging citizens to conduct basic monitoring of their local water bodies”. Several communities used this in Year 14 to work with teachers in their local school department or district to do outreach to elementary and middle-school aged students. The kits continue to be stored in Spencer and Shrewsbury for distribution to the Coalition members.

Palmer continued to utilize the two Enviroscape models focused on non-point source pollution education (<http://www.envirosapes.com/nonpoint-source.html>). One model was purchased by the Coalition in Year 10 and the second was purchased in Year 14 with a grant from NEWEA. These tools are hands-on, visual trainers to demonstrate the importance of good housekeeping and low-impact development for pollution prevention, with the objective of maintaining water quality in our communities. These tools are shared with our statewide partners, upon request.

1. The Town's Conservation Agent created an informational brochure that was mailed out Fall 2016 to all Landscaping Companies that operate in town . A copy of this brochure is attached.

The Coalition continued to expand its educational website, www.CentralMAStormwater.org, focused on providing information about the project to a number of audiences, including the general public, educators, and kids.

Minimum Control Measure 3: Illicit Discharge, Detection and Elimination

Several Coalition members chose to use some of their “one-on-one” time to expand their efforts on this MCM. Updates will be provided in future Annual Reports.

In Year 14, Palmer continued to utilize the two Leica surveying devices (purchased by the Coalition in Year 10) that can be used to map new structures with very high accuracy, using connection to a military-grade Real Time Kinematic (RTK) satellite network. The Leica and tablets can be used to directly access the online mapping and inspection system: the Leica is the most valuable for mapping outfalls, catch basins, pipe, drain manholes, BMPs, and other components of the MS4, while the tablet computers will be most valuable for ongoing inspection of the structures. These two activities serve as the foundation of IDDE. The Leica units rotate between the 28 Coalition communities on a schedule, with formal handoff between Towns documented.

Minimum Control Measure 4: Construction Site Stormwater Runoff Control

Several Coalition members chose to use some of their “one-on-one” time to expand their efforts on this MCM. Updates will be provided in future Annual Reports.

1. The Town's Conservation Agent prepares very detailed set of Orders of Conditions under the Wetlands Protection Act that aim to prevent construction sites from discharging runoff from the limits of approved construction.
2. The Town's Conservation Agent will continue to perform on-site inspections of all projects that have Orders of Conditions during the construction phase. A site report with any violations found will be completed and filed in the Town records.
3. The Town's Conservation Agent will continue to keep track of all stormwater permits for projects that disturb over 5,000 square feet of land. Sites are continuously being reviewed for site runoff control. Periodic inspections are performed on all active sites. See attached for listing of stormwater permits issued in Permit Year 14.

Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment

Several Coalition members chose to use some of their “one-on-one” time to expand their efforts on this MCM. Updates will be provided in future Annual Reports.

1. Site inspections are conducted by The Town's Conservation Agent on all project sites on a regular basis for assurance that BMP's are in compliance.
2. The Conservation Agent has began developing a database of all industrial, commercial, and high-density residential sites that have on-site drainage that discharge directly into the public drain system. The goal is to finalize the database this coming year and begin annual inspections for compliance with Town's stormwater maintenance requirements. Additionally, the database will help identify which properties could potentially be modified or retrofitted with LID BMPs designed to reduce the frequency, volume, and pollutant loads of stormwater discharges

Minimum Control Measure 6: Pollution Prevention and Good Housekeeping in Municipal Operations

Several Coalition members chose to use some of their “one-on-one” time to expand their efforts on this MCM. Updates will be provided in future Annual Reports.

In Year 14, Palmer continued to utilize the Stormwater Pollution Prevention Plan (SWPPP) template in the form of a word processing document. This document was developed in Year 10 and addresses elements common to all SWPPPs, including storage of materials, site inspection practices, water sampling, training, spill prevention and cleanup, Standard Operating Procedures for a number of activities, and other sections. The SWPPP template covers many types of municipal properties. This includes highway department garages and public works yards- where salt is stored and vehicle maintenance or storage is completed- as well as parks, golf courses, and cemeteries, where fertilizers and pesticides may be applied and lawn mowing activities may result in small spills. The SWPPP template includes built-in instructions to make it as simple as possible for each community to develop a SWPPP for a property, simply by deleting text that doesn't apply.

In Year 14, Palmer continued to utilize the 15 Standard Operating Procedures (SOP's) developed by the Coalition in Year 10, and intended to provide guidance on activities required or encouraged by the 2003 Massachusetts Small MS4 Permit. These SOPs addressed such diverse activities or needs as outfall inspection (both dry weather and wet weather), catch basin cleaning, erosion and sedimentation control, oil/water separator maintenance, use and storage of pesticides and fertilizers, and many more. The group developed standard forms and methodologies for these procedures, many of which were incorporated into the Integrated Online Mapping and Inspection System, described in following paragraphs.

Coalition Activities in Year 15 (April 1, 2017 – March 31, 2018)

The following are some, but not all, of the work presently underway by the Coalition in Year 14:

- *Administration.* The long-term goal of the Coalition has always been to be self-sustaining, and this was made a reality in Year 14. The Coalition's Steering Committee drafted a bylaw in Year 14 that will govern how the group makes future decisions. The group will add three new communities in Year 14, continuing to be fully self-funded. The Coalition's leadership is committed to keeping the momentum developed in recent years, and sharing the resources for the improvement of water quality in New England.
- *Funding.* The Coalition maintains a strong network of partners, and will continue to evaluate funding sources that become available, including competitive USEPA grants dedicated to MS4 communities as well as 319 and 604(b) grants appropriate for community-wide water quality projects.
- *Public Outreach and Education.* We are implementing development of training and outreach tools, made possible through a \$50,000 MassDEP Stormwater Technical Assistance grant. We are also considering developing of Coalition-specific outreach materials using FY2016 funding. Finally, the Coalition plans to increase its use of Twitter as a measurable outreach tool.
- *IDDE.* The Coalition is developing competitive pricing for its members that wish to use Environmental Canine Services to perform IDDE screening-level assessments. The catchment delineation tool initially developed during the WPI IQP Fall 2013 project will be revised, modified, finalized, and distributed for use by Coalition towns. The Request for Proposals (RFP) developed in Year 10 (for a third-party firm to perform many of the field or inspection services defined in the 15 SOP's, including outfall inspection (dry weather and/or wet weather), water quality monitoring, catch basin inspection, and other related tasks) will be re-evaluated in Year 14 to match the 2016 MA MS4 Permit. Improving the knowledge of IDDE components by many town departments will likely be a substantial component of FY2016 work.

- *Good Housekeeping.* The Coalition may coordinate an on-site demonstration of calibrating deicing equipment at a member community's highway facility. This active demonstration will provide a real-life example of the benchmarking process developed in Year 10 and encourage members to calibrate their own equipment, with a goal of reducing pounds of chloride per lane mile. The Coalition is in the initial phases of developing an IQP project with Worcester Polytechnic Institute and MassDEP to develop a pilot project for beneficial reuse of catch basin cleaning materials.

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.1	Create Stormwater Program	Public Works Planning Board Conservation Agent Board of Health Town Manager	Palmer will present to the public at public meeting Palmer's Comprehensive Stormwater Management Program	Palmer has developed two Stormwater Ordinances, which were presented public hearings on July 14, 2008 (Projects greater than one acre) and February 9, 2009 (Projects less than one acre).	Palmer will continue to evaluate its Stormwater Ordinances and adjust them to provide adequate protection of local bodies of water.
1.2	Create Stormwater Program	Town Manager Public Works	Palmer will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program) and apply for assistance in implementing portions of Palmer's Comprehensive Stormwater Management Program, including public education and outreach	The Town of Palmer has joined an intermunicipal agreement with 29 other communities for regionalizing municipal stormwater management in central Massachusetts through collaborative education, data management and policy development.	The Town of Palmer continues to be an active participant in the Central Massachusetts Stormwater Coalition and continues to work with the 29 other communities to improve the town's stormwater programs.

1.3	Address Specific Groups	Town Manager Public Works Conservation Agent	Distribute EPA and other relevant educational brochures to targeted audiences. Distribution points include Town Hall, Library and Transfer Station, Conservation Agent will conduct grade appropriate presentations w/ Environscape	The Town has received EPA educational material on disk for easy printing and distribution. Brochures regarding stormwater and sewers are available at the Palmer Town Building, Senior Center, Library and Recycling center. Conservation Agent has begun conducting presentations w/ Environscape at Town events, as well as distributing	The Town will continue to offer current educational materials to the public on the protection of its water bodies that it receives from the CMSWC. The Conservation Agent will conduct presentations w/ Environscape at the TRACK event May 6, 2017 in Three Rivers
1.4	Target groups likely to impact stormwater.	Town Manager Public Works Conservation Agent	Brochures targeting specific audiences and activities will be available. These target groups include homeowner and lawn maintenance activities, disposal of household waste, and pet maintenance	The Town of Palmer has available the following brochures: Watch Your Waste prepared by MADEP, door hangers A Guide to Your Building's Recycling Program prepared by MADEP. Water Department posts Water Conservation Tips on the town website, including measures to reduce outdoor waste. Announcements of events concerning leaf disposal and composting are also posted on the town website and attached to this report. The Town's Highway Department also posts education links and announcements for lead disposal on their website.	The Town will continue to make these and other material available.
1.5	Target potential high commercial polluters	Conservation Agent	Educate specific industries stormwater pollution they generated	The Conservation Agent has begun to make and mail industry specific educational flyers. This year a brochure was sent to all local landscaping companies about proper landscaping procedures	The Conservation Agent will continue to make and mail industry specific educational flyers

1.6	Identify alternative information sources	Town Manager MIS Department	Palmer will post links to stormwater BPMs and other water quality education resources, including EPA and DEP on its website: www.townofpalmer.com	Palmer has identified an posted links to EPA and DEP stormwater regulations and other water quality education resources on its website: www.townofpalmer.com The Town's website includes links to local water departments and water quality reports.	Palmer will continue to locate new educational sources to post to its website as well as maintain the links to current resource materials.
1.7	Identify alternative information sources	Town Manager MIS Department	Palmer will also post links on its website to the Chicopee River Watershed Association @ www.chicopeeriver.org .	The Town of Palmer has posted links from the CMSWC and will continue to make this information available.	This effort will continue into 2016.
1.8	Utilize local public access channel	Town Manager	Public Meeting notice for the meeting to review Palmer's Comprehensive Stormwater management Program will be posted on Palmer's website	Public meeting notices were posted on the town website and the public meetings reviewing Palmer's Comprehensive Stormwater Management Program (held July 14, 2008 and February 9, 2009) aired on Palmer's local access channel.	The town continues to post announcements for public forums regarding stormwater on their website.
1.9	Develop, conduct and document educational programs	Town Manager Conservation Agent	The Conservation Agent serves as the liaison to the Chicopee River Watershed Council to disseminate information to the Town on programs and activities	The Palmer Conservation Commission has spearheaded the revitalization of Chicopee River Watershed Council. All watershed council meeting are held in Palmer and 3 of the steering committee members are Palmer Conservation Commissioners. The Conservation Agent has organized local stream teams The Conservation Agent has organized volunteers to conduct weekly water quality samplings of local rivers	The Town of Palmer's Conservation Agent has been actively evaluating issues that pertain to the protection of the Chicopee River Watershed and will continue those efforts.
1.10	Promote Household Waste Recycling	Public Works Board of Health	The Town of Palmer will work with the	Palmer holds monthly Recycling Events the first Saturday of each	Palmer will continue to hold and advertise monthly Recycling

			Town of Monson and the Town of Wilbraham and the Board of Health to continue to sponsor Regional Hazardous Waste Collection Days.	month, published on the town website. Recycling announcements have been posted to the town's website, along with a typical month's calendar showing the monthly recycling event. The Town of Palmer maintains an ongoing partnership with the Town of Wilbraham for Hazardous Waste Collection. Every September there is a multi-community event for hazardous waste. Palmer participated in 2014 and plans to remain involved.	Events as well as continue the multi-community partnership for Hazardous Waste Collection.
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2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2.1	Stormdrain & Catch Basin Stenciling	Public Works	Solicit and have volunteers perform Stormdrain & CB Stenciling	Ongoing. We had increased interest in stenciling this year.	Continue to encourage local groups to participate.
2.2	School student involvement	Conservation Agent	Improve School student involvement	No action was taken on this goal therefore YR15 goal will remain the same	The Conservation Commission will start a summer internship/scholarship program this year for Palmer HS students. The program will utilize water quality monitoring kits from the World Water Monitoring Challenge program and have students conduct basic monitoring local streams. A finicial award will be given to all students who complete the required hours

2.3	Community clean-ups	Public Works Conservation Agent	Town of Palmer will encourage local stream team cleanups with local residents and area Scout groups. Town will provide solicitation of sponsors and notice of events on local access channel and website	The Hampden County Sheriff's Department provides manpower for riverbank cleanups several times a year. The Palmer DPW provides trucks for waste pickup. The Conservation Agent organized an event with the Local Boy Scouts to clean up the banks of the Swift River May 28, 2016. The Conservation Agent coordinated Palmer's participation in CRWC Source to Sea Clean-up on September 24, 2016. Supplies and T-shirts are supplied by CRWC. Palmer Events Planning hosted a Pick-up Palmer Day in May.	The Town continues to support and encourage local cleanups with local residents. The Conservation Agent will continue to coordinated Palmer's participation in CRWC Annual Source to Sea Clean-up (held each September).
2.4	Community clean-ups	Public Works	Town will provide trucks and other material to support cleanup efforts and disposal of materials.	The Town of Palmer accepts yard waste and materials from town cleanup efforts at the Burleigh Park composting site and at the town DPW yard. The Palmer DPW provides transportation for waste pickup during school-based Earth Day cleanups.	The Palmer DPW supports residents in picking up garbage from streets, curbs, sidewalks and drainage areas along roadways, and will continue to support community cleanup efforts.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3.1	Inventory and mapping of storm drain system	Public Works	Palmer will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604 (b) Grant, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of Palmer's Comprehensive Stormwater Management Program, including public education and outreach.	The Town of Palmer has joined an intermunicipal agreement with 29 other communities for regionalizing municipal stormwater management in central Massachusetts through collaborative education, data management and policy development. The official joint application began in permit year 11 and will continue develop into the next permit cycle.	The Town of Palmer along with the Conservation Agent will continue to seek funding opportunities to support its protection of local bodies of water. The Town will also be working with the Municipal Stormwater Management Collaborative to identify funds.
3.2	Mapping and identification of outfalls and receiving waters.	Public Works Board of Assessors	Palmer will develop and implement a plan to map all outfalls and receiving bodies of water, contingent on Town Council approval of funding.	All known outfalls within Palmer's CSO area were mapped during the original 5-year permit term and are inspected annually to make sure they are in proper working condition. Palmer's Wastewater Treatment Plant personnel maintain the outfall maps that have been completed	The Town will continue to monitor for unknown outfalls and maintain all known outfalls in the CSO area. Through the CIC Grant, the town has access to a GPS monitor and water testing instruments to track and test known outfalls.
3.3	Identification/description of problem areas	Public Works	Palmer will develop and implement an Illicit Discharge Detection and Elimination (IDDE)	Palmer developed an Illicit Connections and Discharges to the Municipal Storm Drain Ordinance, which was presented at a public hearing on July 14, 2008 and was	Quarterly inspections on all CSO outfalls and outfalls abandoned during or prior to the Town's CSO separation project will continue.

			plan, contingent on Town Council approval of funding	passed by the Town Council on August 11, 2008. Palmer's Wastewater Treatment Plant personnel perform quarterly inspection of CSO outfalls and outfalls that were abandoned during or prior to the Town's CSO separation project. Suspended flows are immediately investigated for source identification and removal.	
3.4	Enforcement procedures addressing illicit discharges	Planning Board Town Council Board of Health	Palmer will review whether local authority is appropriate and able to respond to potential illicit discharges. New ordinances, if necessary, will be proposed to Town Council.	The Town has local regulations prohibiting illicit discharges into the storm drain system	The Town will continue to enforce and critique its illicit discharge regulations.
3.5	Public information program regarding hazardous wastes and dumping	Public Works Board of Health	Palmer will provide educational brochures to residents promoting proper disposal household hazardous wastes and conditions for regional collections	The Town maintains an active partnership with Wilbraham for disposal of household waste.	This partnership with Wilbraham will continue into the future.
3.6	Initiation of recycling programs	Public Works Board of Health	Palmer will apply for funding assistance from DEP's Recycling Grant Program for assistance in public education and in the purchase of recycling materials.	The Town of Palmer utilized printed materials from MADEP to encourage recycling by Palmer residents and businesses.	The Town will continue to identify funding sources and opportunities to encourage recycling.
3.7	Watershed assessments and studies	Conservation Agent	Palmer will identify opportunities for funding assistance	The Conservation Agent has been attending meetings of the Lake Thompson Civic Association (LTCA)	The Conservation Agent will submit a grant applications for the 604b grant program this coming

			from DEP's 604(b) and 319 grant programs and the Department of Environmental Management's Lakes and Ponds Grant Program to support watershed assessment and implementation activities. Tasks can include design and installation of stormwater BPMs and public outreach including storm drain stenciling. Emphasis will be on assessments and remediation of stormwater related problems.	and is partnering with LTCA to apply for the 604(b) and 319 grant programs and the Department of Environmental Management's Lakes and Ponds Grant Program to support watershed assessment and implementation activities. This year sediment samples have been taken to assess nutrients present in the lake bottom. Additionally, the Conservation Agent has mapped out all location of untreated stormwater discharges into Lake Thompson	March 2018. The grant application will seek funding for the development of 9- element watershed based plans for Lake Thompson. Funding will go toward increased sediment sampling, bathymetric surveys and
3.8	Watershed assessments and studies	Public Works Palmer Water & Fire Districts	The Town of Palmer will encourage the Palmer Water Districts to apply for funding assistance from DEP's Source Water Protection Program for grant assistance to develop wellhead protection plans and stormwater management plans within Zone II. These plans can include stormwater management programs. The proposed tasks will include a public education component.	Palmer implemented town-wide Storm Water Management Plans during Permit Year 6.	The Town of Palmer will continue to encourage the Water Districts to seek funding for individual Zone II Storm Water Management Plans.

3.9	Inventory commercial properties with drain system directly discharges to municipal drainage system	Conservation Agent	Identify, create a database and map all of the commercial properties. Identify which sites discharge directly into the municipal drainage system .	The Conservation Agent is in the process of developing this database Mapping has not occurred at this time due to time and financial constraints.	The Conservation Agent will continue to develop this database Seek additional funding to continue and expand these efforts.
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4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4.1	Stormwater Management Policy	Conservation Agent	Review all incoming projects from the Conservation Commission Agent's point of view Apply Con Com stormwater management policy(s).	Ongoing. Con Com Agent continues to review all project submissions and writes detail Order of Conditions to ensure compliance.	Continue having the Con Com Agent actively reviewing all in coming plans and projects.
4.2	Inspection & Enforcement	Conservation Agent	Conduct construction site inspections. Keep inspection records and violation reports. Follow stormwater by-law procedures for any violations	Ongoing. Conservation Agent has been trained & performs regular inspections on all active construction sites	Continue site inspections & writing site reports. Maintain all records. Track violations in a database Review current procedures and evaluate whether any adjustments should be made
4.3	Ordinance: Storm water management regulations for construction sites 1 acre or larger	Planning Board Conservation Agent Town Council Board of Health Zoning Board of Appeals	Palmer will review model ordinances developed by DEP in consultation with the Attorney General's Office.	Storm Water Management regulations were passed during Permit Year 6.	No additional action is planned for the BMP.

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5.1	Inspection & Enforcement	Conservation Agent	Designate staff and perform inspections for each project	Ongoing. Designated staff performs regular inspections of all active construction sites	• Continue site inspections and writing site inspection reports. • Enlist other departments to assist in the inspections.
5.2	Inspection & Enforcement	Conservation Agent	Create database and perform inspections	Ongoing. Database has been created and inspections occur on a regular basis. All inspections are recorded in database.	• Update database as needed. • Perform inspections.
5.3	BMP Operation & Maintenance Procedures	Conservation Agent	Develop operation and maintenance procedures for submission on each project	Ongoing. Procedures continue to be required for all projects	• Continue requiring O&M plans • Evaluate Town requirements to the new MS4 permit requirements and change as necessary
5.4	Sampling to verify compliance with stormwater policies	Conservation Agent	Perform sampling on downstream watersheds of projects that have suspected negative impacts to the watershed.	The Conservation Agent has developed a sampling protocol and procedures for suspect violations. The Conservation Agent has begun the “Source Tracking” program on the Quaboag River to identify possible inputs of E.Coli	Develop sampling protocol and procedures for suspect violations using the new MS4 permit requirements
5.5	Ordinance: Require post-construction runoff controls	Planning Board Conservation Agent Town Council Board of Health Zoning Board of Appeals	Palmer will review model ordinances developed by DEP in consultation with the Attorney General’s Office.	The Planning Board rules and regulations for all new developments require a stormwater management plan during and post construction	No additional action is planned for this BMP.

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6.1	Develop a municipal Operations and Maintenance Plan	Public Works	Using regulations from DEP and EPA, Palmer will develop and update an operations and maintenance plan to include proper disposal of street sweepings, catch basin cleanout, snow disposal, roadway deicing procedures, vehicle washing, and outside storage of materials.	A formal O&M plan is still being developed in Permit Year 11 and beyond. Street sweeping occurs from April to October each year. Palmer's DPW cut down the rate of salt and sand over the permit year during winter perception to limit the amount of material buildup during spring melt. The winter of 2014-2015 was, however very intensive as to road treatment and plowing needs.	The Town of Palmer's DPW and WWTP personnel will continue their efforts to finalize the O&M Plan.
6.2	Develop a municipal Operations and Maintenance Plan	Public Works	Palmer will implement a formal inspection program, including maintenance logs and scheduling, for catch basin cleaning, repairs, and new installation.	A formal inspection is being developed as part of the formal O&M Plan. Palmer owns a vacuum truck, which is used by the DPW and WWTP personnel for catch basin cleaning on a daily basis. Structural conditions or suspended illicit discharges are noted for future maintenance or follow-up action respectively. Palmer's DPW performs manhole inspections on a regularly scheduled basis and records results per MIIA recommendations.	Palmer will continue its current inspection and cleaning routine while the O&M Plan is being developed

6.3	Develop and implement training programs for municipal employees	Public Works	Palmer will send a minimum of 3 public works employees annually to training seminars sponsored by MassDOT, BayState Roads, and other relevant agencies or vendors.	During the past year, DPW employees have participated in the following training sessions: Flagmen training, hot mix asphalt inspection, dig-safe training and NEWEA specialty conferences.	The Town will continue to send employees to relevant training seminars and forums.
6.4	Review storm drainage infrastructure needs	Public Works	Palmer will incorporate storm drain infrastructure review in Palmer's Chapter 90 project utilization	Palmer continues to identify opportunities for storm sewer infrastructure improvements in connection with Chapter 90 projects. The town has conducted a Sewer Replacement Project which included the installation of 36 new catch basins throughout town.	Palmer will continue to identify opportunities for storm sewer infrastructure improvements in connection with Chapter 90 projects.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2016 through March 31, 2017)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures **	(\$)	None
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	70%
Stormwater management committee established	(y/n)	Yes (Regional)
Stream teams established or supported	(# or y/n)	Yes 13 Streams/1 Team
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	Yes
Shoreline cleaned since beginning of permit coverage	(mi.)	5
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	Regional
▪ material collected **	(tons or gal)	Not Tracked

School curricula implemented	(y/n)	Yes
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Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with “X”)					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X
Accompanying Regulation Status (indicate with “X”)					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	70%
Estimated or actual number of outfalls	(#)	25
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	90%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	CSOs Only
Illicit discharges identified **	(#)	33
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed **	(#); and (est. gpd)	3 700 gpd
Illicit connections removed (Since beginning of permit coverage)	(#); and	3

	(est. gpd)	700 gpd
% of population on sewer	(%)	80%
% of population on septic systems	(%)	20%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	13
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	39
Tickets/Stop work orders issued **	(# or %)	3
Fines collected **	(# and \$)	2; \$1800 & \$6400
Complaints/concerns received from public **	(#)	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	25%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1
Qty of structures cleaned **	(#)	120
Qty. of storm drain cleaned **	(%, LF or mi.)	1,440 LF

Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	1
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	0
• % Structures cleaned with vactor **	(%)	100%

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	1
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	No
• % Roads swept with rotary brush sweepers **	%	100%
• % Roads swept with vacuum sweepers **	%	0%

Reduction (since beginning of permit coverage) in application on public land of:
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("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized **	(y/n or %)	N
Manual control spreaders used **	(y/n or %)	Y
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	

Month & Year __2016__			OPERATION CODES					SITE DESCRIPTION				
				1-Jet Rod		7- Root Cutting		A-Catch Basin	F- Pump Station			
Vehicle # __V307__				2- Vactored		8- Root Foam		B- Mainline	G- POTW			
				3- TV Inspect		9- Hand Rod		C- Manhole	H- CSO's			
				4- Visual Inspect		10- Cleaned Basin		D- Inteceptor	I- Drainage			
				5- GIS		11- Repair		E- Syphon	J- Other			
				6- Dye Test		12- Other						
Date	Name(s)	Site Desc p	P/M or Emer	Overtime Y/N	Operation Code	Start House #	Stop House #	Distance in Feet	Location	# CB CLEAN ED	Description of Work	
1/11/2016	JIM,KEN B,MIKE	C,I	EM	N	1,2,7				HIGH ST THORNDIKE		10 FT CAMERA LINE FULL OF ROOTS . TRY ROOT CUTTING	HIGT
2/26/2016	JIM,KEN B	C,I	PM	N	2				SOUTH HIGH ST BONDSVILLE		FRONT OF 13 SOUTH HIGH ST BONDSVILLE LITTLE BIT OF	SOUB
2/26/2016	JIM, KEN B	C,I	PM	N	7			82	HIGH ST THORNDIKE		DN FROM BROOK FULL OF ROOTS 82 FEET CUT LINE PU	HIGT
2/26/2016	JIM, KEN B	C,I	PM	N	2				HIGH ST THORNDIKE		VACTOR OUT MANHOLE 2 LOADS	HIGT
2/29/2016	JIM,KEN B	C,I	PM	N	1	2022		50	2022 MAIN ST THREE RIVER		JET ROD DRAIN LINE BACK TO RIVER 50 FT	MAIT
3/7/2016	JIM,KEN B	I	PM	N	2	207			207 OLD WARREN RD PALMER		NING DRAIN LINE ON SIDE OF ROAD AND GROUND WAS F	OLDP
3/7/2016	JIM,KEN B	I	PM	N	2	85			85 BEECH ST PALMER		CLEAN OUT FROZEN DROP INLET 85 BEECH ST PALMER	BEEP
3/8/2016	JIM, KEN B	A,C,I	PM	N	2,10				MAIN ST PALMER		NEAR STATION # 1 SO WE CAN CAMERA LINE THERE TO SE	MAIP
3/8/2016	JIM,KEN B	A	PM	N	2,3,10				MAIN ST PALMER		AR DAVE LANE CONSTRUCTION SO THEY CAN CAMERA LIN	MAIP
3/8/2016	JIM,KEN B	C,I	PM	N	1				MAIN ST PALMER		ER AT WALNUT BACK TO CENTRAL ST LOOK LIKE SEWAGE	MAIP
3/8/2016	JIM,KEN B	C,I	PM	N	1				MAIN ST PALMER		AIN ST PALMER AT CENTRAL BACK TO WALNUT ST RAN 2	MAIP

3/8/2016	JIM,KEN B	C,I	PM	N	7				MAIN ST PALMER		LOWER SHOP SIDE CATCHBASIN TO TO PUMP STATION #	MAIP
4/19/2016	JIM,MIKE B	C,I	PM	N	2				HIGH ST THORNDIKE		MANHOLE FOR BROOK NEAR JUNCTION CLEAN IT OUT.CL	HIGT
4/19/2016	JIM,MIKE B	I,J	PM	N	10				HIGH ST THORNDIKE		CLEAN OUT DOUBLE CATCHBASIN NEAR JUNCTION	HIGT
4/19/2016	JIM,MIKE B	I,J	PM	N	2				HIGH ST THORNDIKE		CLEAN OUT DROP INLET NEAR JUNCTION	HIGT
4/19/2016	JIM,MIKE B	A	PM	N	10	205			205 BRECKRIDGE ST PALMER		CLEAN CATCHBASIN 205 BRECKRIDGE ST PALMER	BREP
4/19/2016	JIM,MIKE B	A	PM	N	10				STINSON RD PALMER		CLEAN 2 CATCHBASIN STINSON & GATE ST PALMER	STINP
4/20/2016	JIM,KENNY,GERR	A	EM	N	2,10				BOURNESIDE ST THREE RIVER		OIL IN CATCHBASIN FROM CAR LEAKING FOR FIRE DEPT A	BOUT
4/26/2016	DENNIS,JIM	A	EM	N	10				NORTH MAIN ST PALMER		IN CLEANING NORTH MAIN & SHEARER ST PALMER CAUSI	NORP
4/27/2016	JIM,DENNIS,MIKE	A,I	PM	N	10				NORTH MAIN ST PALMER		1 PARAMOUNT PIZZA BROKEN COVER, PALMER PACKAGE	NORP
4/27/2016	JIM,DENNIS,MIKE	A	PM	N	10				NORTH MAIN ST PALMER		CATCHBASIN AT CORNER NORTH MAIN ST AND SHEARER S	NORP
4/27/2016	JIM,DENNIS,MIKE	A	PM	N	10				WILBRAHAM ST PALMER		EAN 4 CATCHBASIN ON WILBRAHAM ST UNDER UNDER PA	WILP
5/2/2016	JIM,MIKE	A	PM	N	10				SOUTH MAIN ST BONDSVILLE		IN UP CORNER CATCH BASIN S MAIN ST & PINE ST BONDS	SOUB
5/2/2016	JIM,MIKE	A	PM	N	10				MAIN ST PALMER		CATCH BASIN MAIN ST PALMER IN FRONT OF DAVE LANE CO	MAIP
5/2/2016	JIM,MIKE	A	PM	N	10	1194			1194 THORNDIKE ST PALMER		4 THORNDIKE ST PALMER ALL BACK UP CAUSING FLOODIN	THOP
5/3/2016	JIM,KEN B	A	PM	N	4,10				MAIN ST PALMER		ST PALMER IN FRONT OF DAVE LANE CONSTRUCTION SO	MAIP
5/4/2016	JIM,MIKE	A,I	PM	N	1	2022			2022 MAIN ST THREE RIVER		JET ROD DRAIN LINE TO RIVER	MAIT
5/5/2016	JIM,KEN B	A	PM	N	4,10				MAIN ST PALMER		IN ST PALMER IN FRONT OF DAVE LANE CONSTRUCTION	MAIP

5/16/2016	JIM,KEN B	I,J	PM	N	2				CHURCH ST THORNDIKE		CLEAN UP BASKETBALL COURT DRAIN WAS BLOCKED	CHUT
5/16/2016	JIM,KEN B	A	PM	N	2,6,10				MAIN ST PALMER		TCHBASIN IN FRONT OF CAPITAL CLEANER SO THEY CAN	MAIP
5/31/2016	JIM,RALPH	A,I	PM	N	1			135	MAIN ST PALMER		N OUT CATCHBASIN CAPITAL CLEANERS AND JET ROD 13	MAIP
5/31/2016	JIM,RALPH	A,I	PM	N	1			180	MAIN ST PALMER		IBASIN PALMER PACKAGE ST JET ROD BACK TO CAPITAL	MAIP
5/31/2016	JIM,RALPH	A,I	PM	N	1			200	MAIN ST PALMER		N AT SHEARER CORNER AND JET ROD BACK TO PALMER	MAIP
6/2/2016	JIM,MIKE B	I,J	PM	N	4				RONDO ROAD PALMER		CHECK PIPE ON RONDO ROAD. LINE WAS OK	RONP
6/2/2016	JIM,MIKE B	A	PM	N	10	32			32 BEECH ST PALMER		32 BEECH ST PALMER CLEAN OUT CATCHBASIN	BEEP
6/3/2016	KENNY L CHARL	A	PM	N	3,10				MAIN ST PALMER		PALMER IN FRONT OF DAVE LANE CONSTRUCTION SO C	MAIP
6/3/2016	KENNY L CHARL	C,I	PM	N	1,2,3			25	BELCHERTOWN RD THREE RIVER		TOOL 4 OR 5 TIMES FULL OF SAND CHARLIE BROWN CAN	BELT
7/5/2016	JIM,KEN B	C,I	PM	N	1,2			100	PLEASANT ST THORNDIKE		OLE JET ROD UP PLEASANT AND SUMMER BOTH DIRECTI	PLET
7/6/2016	JIM,KEN B	C,I	PM	N	1	29		75	29 PLEASANT ST THORNDIKE		E JET ROD ROD 75 FT BACK TO SUMMER ST DRAIN LINE FU	PLET
7/11/2016	JIM	A	PM	N	2				PALMER HIGH SCHOOL THORNDIKE		PALMER HIGH SCHOOL. BY TENNIS COURT SO HIGHWAY C	PALT
7/12/2016	JIM,KEN B	I,J	PM	N	1				RONDO ROAD PALMER		T ROD PIPE FOR HIGHWAY. NO NOZZLE JUST WATER TO C	RONP
7/19/2016	JIM,KEN B	I,J	PM	N	12				CHURCH ST THORNDIKE		LEAN OUT PARK BASKETBALL COURT DRAIN WAS BLOCKE	CHUT
7/21/2016	JIM,KEN B	A,I	PM	N	2	449			449 SPRINGFIELD ST THREE RIVER		T CLEAN ALL DRAIN LINE TO WILBRAHAM LINE 5 MANHOLE	SPRT
7/25/2016	JIM,KEN B	A,I	PM	N	2	380			380 SPRINGFIELD ST THREE RIVER		CLEAN ALL DRAIN LINE 4 MANHOLE TO WILBRAHAM LINE	SPRT

7/26/2016	JIM,KEN B	A	PM	N	11				KELLY ST THREE RIVER		CLEAN CATCHBASIN KELLY & HIGH ST 3 CATCHBASIN	KELT
7/27/2016	JIM,KEN B	A	PM	N	11			125	6 CHENEY ST THREE RIVER		6 CHENEY ST THREE RIVER BOTH DIRECTION CHENEY ST	CHET
8/3/2016	JIM,KEN B	C,I	PM	N	1,2			167	PLEASANT ST THORNDIKE		ANT ST BACK TO CHURCH & SUMMER ST THORNDIKE 167	PLET
8/3/2016	JIM,KEN B	C,I	PM	N	1,2			301	SPRINGFIELD ST THREE RIVER		LUEBERRY PATCH THRU 2 OTHER MANHOLE ONE AT 15 F	SPRT
8/3/2016	JIM,KEN B	A	PM	N	10				BRETON ST THREE RIVER		CLEAN ALL CATCHBASIN NEAR BRETON ST THREE RIVER	BRET
8/12/2016	JIM,KEN B	A	PM	N	10				WING HOSPITAL PALMER		IN MORRISON CLEANING CATCHBASIN AT WING HOSPITAL	WINP
8/24/2016	JIM,KEN B	A	PM	N	10				LAWRENCE ST PALMER		CLEAN 4 CATCHBASIN TOP OFF LAWRENCE ST PALMER	LAWP
9/6/2016	JIM,KEN B	I	PM	N	2				OLD WARREN RD PALMER		CLEAN OUT DRAIN PIPE ON OLD WARREN ROAD PALMER	OLDP
9/13/2016	JIM,KEN B	A	PM	N	10				THREE RIVER ROAD THREE RIVER		D THREE RIVER CLEAN OUT DOUBLE CATCHBASIN CLEAN	THRT
9/13/2016	JIM,KEN B	A	PM	N	10				SHEARER ST PALMER		LEAN OUT CATCHBASIN SHEARER ST NEAR NURSING HOM	SHEP
9/14/2016	JIM,KEN B	A	PM	N	10				BEECH ST PALMER		ST PALMER RUN OFF FULL OF DIRT CLEAN IT OUT CLEA	BEEP
9/14/2016	JIM,KEN B	A	PM	N	10				BEECH ST PALMER		BEECH PALMER CLEAN CATCHBASIN ON ST	BEEP
9/15/2016	JIM,KEN B	A	PM	N	2,10				THORNDIKE ST PALMER		OP INLET THORNDIKE ST PALMER RUN OFF WAS ALL BLO	THOP
9/15/2016	JIM,KEN B	A	PM	N	2,10				CAULKIN ROAD THREE RIVER		CATCHBASIN CAULKIN RD THREE RIVER HEAVY SAND ON T	CAUT
9/15/2016	JIM,KEN B	A	PM	N	2,10				KELLY ST THREE RIVER		CLEAN OUT 3 CATCHBASIN. NEED SAND IN TRUCK TO CLE	KELT
9/22/2016	JIM,KEN B	A	PM	N	2,10				SPRINGFIELD ST THREE RIVER		HBASIN SPRINGFIELD ST THREE RIVER TO CLEAN OUT SC	SPRT
9/23/2016	JIM,KEN B	A	PM	N	10				FOREST ST BONDSVILLE		CLEAN 3 CATCHBASIN FOREST ST BONDSVILLE	FORB
9/27/2016	JIM,KEN B	A	PM	N	10				KELLY ST THREE RIVER		CLEAN 2 CATCHBASIN KELLY & HIGH ST THREE RIVER	KELT
9/27/2016	JIM,KEN B	A	PM	N	10				MAPLE TERRACE THREE RIVER		SIN MAPLE TERRACE THREE RIVER FOR WATER DEPT TO	MAPT
10/4/2016	JIM,KEN B	A	PM	N	10				MONAT ST THREE RIVER		CLEAN 2 CATCHBASIN MONAT ST THREE RIVER	MONT
10/6/2016	JIM,KEN B	A	PM	N	10				NORTH ST THREE RIVER		CHERTOWN RD THREE RIVER JET ROD PIPE INSIDE TO FLO	NORP

10/6/2016	JIM,KEN B	A	PM	N	10				MAIN ST THREE RIVER		N ACROSS FROM BELANGER ST ON MAIN ST SMALL COVER	MAIT
10/6/2016	JIM,KEN B	A	PM	N	10				MAIN ST THREE RIVER		CLEAN CATCHBASIN PARKING LOT OF CHURCH	MAIT
10/6/2016	JIM,KEN B	A	PM	N	10				MAIN ST BONDSVILLE		OF POST OFFICE. STARTED TO OVER HEAT HOSE SPLIT C	MAIB
10/14/2016	JIM,KEN B	A	PM	N	10				MT DUMPLIN ST PALMER		CLEAN 2 CATCHBASIN ON MT DUMPLIN ST PALMER	MTDP
10/14/2016	JIM,KEN B	G	PM	N	1				PALMER WASTE PLANT THREE RIVER		JET ROD SCRUM LINE AT PLANT	PALT
10/19/2016	JIM,KEN B	A	PM	N	10	1028			1028 WILSON ST PALMER		T PALMER CLEAN 2 CATCHBASIN, JET ROD ALL LINE FOR	WILP
10/27/2016	JIM,KEN B	A	PM	N	10				BEECH ST PALMER		AN 3 CATCHABASIN ON BEECH SMITH AND FLYNT ST PALM	BEEP
11/14/2016	JIM,KEN B	A	PM	N	10				LAUREN DRIVE PALMER		CLEAN 7 CATCHBASIN LAUREN DRIVE PALMER	LAUP
11/14/2016	JIM,KEN B	A	PM	N	6,10				CHURCH ST THORNDIKE		RCH ST THORNDIKE AND DYE TEST BARN ON CHURCH ST	LAUP
11/30/2016	JIM,KEN B	A	PM	N	10				NORTH ST THREE RIVER		CLEAN DROP INLET NORTH ST THREE RIVER	NORT
11/30/2016	JIM,KEN B	A	PM	N	10				CHARLIE ST THREE RIVER		CLEAN CATCHBASIN CHARLIE ST THREE RIVER	CHAT
11/30/2016	JIM,KEN B	A	PM	N	10				SPRINGFIELD ST THREE RIVER		CLEAN CATCHBASIN SPRINGFIELD ST THREE RIVER	CHAT