

Municipality/Organization: Town of West Springfield
EPA NPDES Permit Number: MA041024
MassDEP Transmittal Number: W-035938
Annual Report Number & Reporting Period: Year 15
April 1,2017 – March 31, 2018

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2018)

Part I. General Information

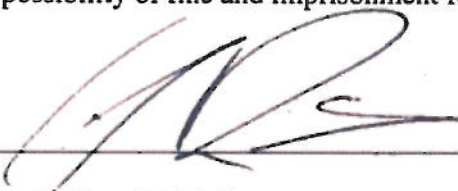
Contact Person: Tim Inácio **Title:** Project Manager

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Mailing Address: 26 Central Street - Suite 17, West Springfield, MA 01089-2763

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: 

Printed Name: William Reichelt

Title: Mayor

Date: 4/26/18

Part II. Self-Assessment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
4A Revised	Construction Site Runoff Ordinance	Planning Dept. Build Inspector	Eval Exist Regs Yr 1 Draft Revisions Yr 2 Propose for adoption in Year 3	Landscaping Standards and Parking Lot Stormwater Management Zoning Ordinance Adopted December 2015.	Implementing Ordinance.
4B Revised	Erosion and Sediment Control Plan Review	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Landscaping Standards and Parking Lot Stormwater Management Zoning Ordinance Adopted December 2015.	Implementing Ordinance.
4C Revised	Inspection Reporting	Conservation Commission	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Landscaping Standards and Parking Lot Stormwater Management Zoning Ordinance Adopted December 2015.	Implementing Ordinance.
5A Revised	Post Construction Runoff Ordinance	Planning Dept.	Eval. Exist Std – Yr 1 Draft Revision -Yr 2 Propose Adopt – Yr 3	Landscaping Standards and Parking Lot Stormwater Management Zoning Ordinance Adopted December 2015.	Implementing Ordinance.
5C Revised	Stormwater System Maintenance Plan	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Landscaping Standards and Parking Lot Stormwater Management Zoning Ordinance Adopted December 2015.	Implementing Ordinance.

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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
1A Revised	Educational Displays at the DPW Offices	DPW	1 Display in Municipal Building per year (Year 1 to 5)	Stormwater posters have been installed outside of DPW Offices in the Municipal Office Building.	Posters produced by The Connecticut River Stormwater Committee.
1B	Classroom Education	DPW	DPW Classroom Presentation (Year 1 to 5)	Fausey School in West Springfield has included stormwater related topics in its curriculum.	Continue to participate in Classroom Educational Programs.
1C Revised	Newspaper Press Release	DPW	Press Release to local newspaper ~2 per year (Year 1-5)	Working on developing new Press releases and articles to appear in the West Springfield Record and the Springfield Republican periodically through the calendar year.	Continue press releases and articles for the local newspapers.
1D Revised	Local Cable Access	DPW	Show Stormwater Video – 2 per year (Year 1-5)	Working with the Town's local cable access channel to have storm water related videos played periodically as well as public service announcements.	Continue with public service announcements and notices, local environmental programs and lectures, As well as utilizing WSHS TV Studios in creation of a Stormwater Video in anticipation of the new permit requirements.
1E Revised	Informational Pamphlets	DPW	Develop Pamphlets and distribute with water bills (Year 1,3,5)	Working on developing new informational pamphlets to be sent out with quarterly water bills.	Working on developing new informational pamphlets to be sent out with quarterly water bills.
1F	Open House at Transfer Station	DPW	Publicize and Support Annual Event (Year 1 to 5)	Public Presentations are presented by the Connecticut River Stormwater Committee – Think Blue Campaign.	The town will continue to sponsor programs which highlight the environment.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
1G	Community Website	DPW	2 Notices per Year on local "Virtual Town Hall" website (Year 1 to 5)	Working on developing the Town's website to include new NPDES Web pages with updated information and document the town's efforts.	The town is developing a new website starting May 2018. DPW personnel will update the new site with pertinent stormwater info.
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
2A	Adopt a Road	City Council	Support “Townwide Cleanup” activities – Years 1 to 5	Annual “Earth Day Cleanup” activities utilize volunteer groups who help with the cleanup. These groups go along brooks and streams and remove litter and other debris.	The Town will continue to sponsor “Earth Day Cleanup Activities”.
2B	Adopt a Stream	DPW	Maintain Signage identifying stream names sponsored by volunteer groups – Years 1 to 5	During “Earth Day Cleanup” volunteers check the signs that identify the names of streams. The signs are replaced if they are damaged.	The Town will continue to sponsor “Earth Day Cleanup Activities”.
2C Revised	Attitude Surveys	DPW	Include Stormwater Survey on Website – Years 2 & 5	West Springfield is working with the Connecticut River Stormwater Committee.	The Town will continue to work with and support the Connecticut River Stormwater Committee.
2D Revised	Community Hotline	DPW	Place DPW phone number on Town Website for reporting of illicit discharges – Years 1 to 5	Continue to post phone numbers on the Town’s Website for reporting stormwater issues.	Continue to post phone numbers on the Town’s Website for reporting stormwater issues.
2E Revised	Storm Drain Stenciling	DPW	Recruit volunteers for stenciling anticipated 100 catchbasins per yr	Catch Basin stenciling was performed at the Senior High School. Catch basin grates were also installed at the High School inscribed with stormwater information.	The town will continue to solicit volunteers for catch basin stenciling and investigate catch basin grates inscribed with stormwater information for other locations.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
2F Revised	Water Quality Monitoring	DPW	Visual Inspection of priority outfalls by volunteers, 10 per yr (Years 2 & 5)	Field inspected 100% of the known 272 mapped outfalls by Tighe & Bond Consulting Engineers.	Continue monitoring of water quality in streams and brooks. DPW and Conservation Commission will work to monitor outfalls.
2G Revised	Watershed Committee	WRA	Support Westfield River Association, inform of DPW activities (Year 1 to 5)	The Town of West Springfield supports the activities of the Westfield River Watershed Association in cleaning up of the town's riverbanks.	The Town of West Springfield will continue to support the Westfield Watershed Association.
2H Revised	Hazardous Waste Collection	DPW	Publicize annual event collecting Universal Wastes (Year 1 to 5)	Hazardous Waste Collection conducted on 22 Oct. 2017; 221 Vehicles Used Antifreeze Used Oils Solvents Old paint mixed pesticides	The Town of West Springfield will continue to conduct Hazardous Waste Collections in the early fall of each year. The next scheduled collection day event is October 2018.
2I Revised	Wetlands Planting Remove invasives	DPW	Recruit volunteers for wetlands improvements (Year 1 to 5)	Local volunteer groups help with Earth Day Cleanup. Debris is typically removed from local wetland habitats. Earth Day Cleanup was organized by DPW and Conservation Commission and picked up tons of litter, bulk waste and tires, some with metal rims.	West Springfield will continue to support local conservation groups thru town-sponsored activities and the environmental committee.

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any) Tighe & Bond Consulting Engineers for 3A, 3B & 3E	Planned Activities – Future Permit
3A	Mapping Stormwater Outfalls	DPW	Develop map of stormwater outfalls, Year 1 Field inspect, Year 2-5 verify 25% per year	Mapped 100% of outfalls in town focusing first on densely populated areas.	DONE
Revised					
3B	Develop Illicit Discharge Plan	DPW	Evaluate Year 1 Draft Plan Year 2 Propose adoption Yr 3 Implement Yrs. 3 to 5	Simultaneously mapped outfalls and system-wide storm and sewer structures (i.e., catch basins, manholes, pipes) for 100% of town. This will provide accurately located structures to help the town immediately and more easily implement the Illicit Discharge Detection and Elimination Program.	Systematic Cleaning and Inspection of Storm Drainage Piping, catch-basins and Manholes
Revised					
3C	Non- Stormwater Ordinance	Planning Board / DPW	Evaluate Year 1 Draft Plan Year 2 Propose adoption Yr 3 Implement Yrs. 3 to 5	Ordinance was adopted April 19, 2005 It has been implemented	DONE
Revised					
3D	Inform Employees, Businesses, Public	DPW	Publicize Illicit Discharge Plan (Year 3 & 5)	Working towards creating a new stormwater page on the Town's website for stormwater documents the public can access.	Continue working towards creating a new stormwater page on the Town's website for stormwater documents the public can access.
Revised					
3E	Video Inspection	DPW	Conduct as needed in conjunction with BMP #3B (Years 1 to 5)	Kenyon Pipeline inspection and cleaning of 16,606 LF of sewer collector mains.	Drain pipes and/or Manholes will be repaired based upon results of this study. Also continue working on integrating this into the Town's annual street resurfacing program.
Revised					

3F	Failing Septic Systems	Board of Health	Keep records for identification of Problem Areas (Years 1 to 5)	Health Department has records of Septic Systems. These are continuously being entered onto the Town's GIS mapping system.	Continue to enter septic system information onto the Town's GIS mapping system. The Town is also investigating possible ways to expand sanitary system to areas currently served by septic.
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
4A	Construction Site Runoff Ordinance	Planning Dept. Build Inspector	Eval Exist Regs Yr 1 Draft Revisions Yr 2 Propose for adoption in Year 3	Landscaping Standards and Parking Lot Implementing Ordinance. Adopted December 2015. Z- 9.06 Stormwater Management and Erosion Control Z- 7.84 SubDRegs 11.1 Storm Drainage	Implementing Ordinance.
Revised					
4B	Erosion and Sediment Control Plan Review	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Landscaping Standards and Parking Lot Implementing Ordinance. Adopted December 2015. Z- 9.06 Stormwater Management and Erosion Control Z- 7.84 SubDRegs 11.1 Storm Drainage	Implementing Ordinance.
Revised					
4C	Inspection Reporting	Conservation Commission	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Landscaping Standards and Parking Lot Implementing Ordinance. Adopted December 2015. Z- 9.06 Stormwater Management and Erosion Control Z- 7.84 SubDRegs 11.1 Storm Drainage	Implementing Ordinance.
Revised					

4a. Additions

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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
5A	Post Construction Runoff Ordinance	Planning Dept.	Eval.Exst Stand – Yr 1 Draft Revision -- Yr 2 Propose Adopt - Yr 3	Landscaping Standards and Parking Lot Implementing Ordinance. Adopted December 2015. Z- 9.06 Stormwater Management and Erosion Control Z- 7.84 SubDRegs 11.1 Storm Drainage	Implementing Ordinance.
Revised					
5B	Construction Site Plan Review	Planning Dept.	Enforcement under existing Regs Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Landscaping Standards and Parking Lot Implementing Ordinance. Adopted December 2015. Z- 9.06 Stormwater Management and Erosion Control Z- 7.84 SubDRegs 11.1 Storm Drainage	Implementing Ordinance.
Revised					
5C	Stormwater System Maintenance Plan	Planning Dept.	Enforcement under existing Regs Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Landscaping Standards and Parking Lot Implementing Ordinance. Adopted December 2015. Z- 9.06 Stormwater Management and Erosion Control Z- 7.84 SubDRegs 11.1 Storm Drainage	Implementing Ordinance.
Revised					

5a. Additions

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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
6A	Municipal Maintenance Activity Program	DPW	Evaluate and draft additional policies as necessary, Year 1. Comply, Yrs 2-5	Central Maintenance maintains 17 parks and ball fields – trash is picked up on a daily basis. Vehicle fleets inspected monthly and oil changes done on a regular basis Catch basins are cleaned as there is a route established to clean them all.	Continue the effort established in previous years.
6B	Employee Training	DPW	Initial Good Housekeeping training Year 1. Annual Refresher Yrs 2-5	Employees are trained in the Municipal Maintenance Activity Program. DPW staff attended Good Housekeeping Training for MS4 Compliance 11/8/17 and 11/9/17.	Continue the effort established in previous years.
6C Revised	Catch basin Program	DPW	Clean 50% of Catch basins per year	3% of CB's cleaned last year, picked up by vendor and disposed. We currently have 6626 Catch Basins mapped	Continue the effort established in previous years and increase the % of catch basins cleaned annually.
6D	Street Sweeping	DPW	Sweep Streets once per year and Business Districts monthly, spring thru fall Yrs 1-5	The DPW swept the entire town, 120 miles of roads, once this year. Downtown and main arterial routes were swept an additional 3 times. Street sweepings were collected for use as ground cover at the Springfield Yard Waste Composting Facility for an average yearly tonnage of 1121.	Continue the effort established in previous years.
6E Revised	Road Salt Program	DPW	Employee Training at Salt-Institute, Yr. 1 Investigate alternative chemicals Yrs 2-5	DPW used 2700 tons of road salt, 200 gallons of Calcium Chloride and 200 tons of sand to mitigate road ice this past winter season.	DPW Continues to use simple salt when possible, calcium chloride for some walkways, using sand only when salt is no longer effective

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6F	Lawn care and Pest Control	DPW	Train 2 Employees for application of controls Yr 1 Implement Practices Yrs 2-5	Continue the effort established in previous years.	Continue the effort established in previous years.
6G	Stormwater Pollution Prevention Plan / MSGP at the City Garage (Town Yard)	DPW	Implementation of SWPPP, Year 1. Comply, yrs 2-5	4 bays of the existing DPW Garage have been reconstructed for use as state of the art repair facility. The town has abandoned plans to build a new facility.	DONE
6H Revised	Used Oil Recycling	DPW	Continue collection and recycling, Years 1-5.	In 2017 the town recycled all 395 gallons of its used oil produced from vehicle and equipment maintenance activities	Continue to collect and recycle all used oils and lubricants produced through vehicle and equipment maintenance.
6I Revised	Illegal Dumping	DPW	Pickup of dumped waste, Yrs 1-5	The DPW, and local volunteer groups, continue to pick up illegally dumped materials in the following areas: Agawam Ave, Bear Hole Reservoir, Circuit Ave, Palmer Ave, Old Westfield Road and 7.2 miles of earthen dike.	Continue the relationship with bearhole and levee system resident volunteers to keep wildlife areas free of illegally dumped trash, and respond quickly to reports of illegal dumping.

6a. Additions

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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
7A	TMDL for the Connecticut River	DPW, Planning, Health, Bldg Departments	Completion of BMP's under all of the Six Minimum Control Categories	Refer to previous BMP's	Follow the nitrogen (WMASS) and phosphorous (EMASS) elimination requirement process as to be determined by No. MAR041000.
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7b. WLA Assessment

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, 2010 through March 31, 2011)

Programmatic

Stormwater management position created/staffed	(y/n)	Y
Annual program budget/expenditures **	(\$)	\$ 106,997 (\$7200 in FY17)
Total program expenditures since beginning of permit coverage	(\$)	\$ 1,220,619
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund

(Preferred Units) Response

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	-
Stormwater management committee established (<i>Connecticut River Stormwater Committee</i>)	(y/n)	Y
Stream teams established or supported (<i>Westfield River Watershed Association</i>)	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	Y
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		10/21/2017
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	174 vehicles 47 (In-Kind)
▪ material collected **	(tons or gal)	.68 Tons (1356lb) 322lb (In-Kind)
School curricula implemented	(y/n)	Y

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	(%)	100%
Estimated or actual number of outfalls	(#)	272 (282 NOI's)
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	282
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	272
Illicit discharges identified **	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	6 likely

Illicit connections removed **	(#); and (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	95%
% of population on septic systems	(%)	5%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) ** (Heka-Health, Courtyard by Marriott, Cumberland Farms, Balise Carwash (completed/started) in 2017)	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	100%
Tickets/Stop work orders issued **	(# or %)	0%
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	0 Known

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/day)	7 per day
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	“ “
Qty of structures cleaned **	(#)	192
Qty. of storm drain cleaned **	(%, LF or mi.)	.33 miles 1760LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	250 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	landfill

Basin Cleaning Costs			
• Annual budget/expenditure (labor & equipment)**		(\$) 55,932	Level Funded
• Hourly or per basin contract rate **		\$65.00/basin (192 cb 's)	\$44.38/ basin in 2016)
• Disposal cost**	[\$50/ton	(\$)12,500	(\$10,640 in 2016)
Cleaning Equipment			
• Clam shell truck(s) owned/leased		(#)	0
• Vacuum truck(s) owned/leased		(#)	1
• Vacuum trucks specified in contracts		(y/n)	None
• % Structures cleaned with clam shells **		(%)	None
• % Structures cleaned with vactor **		(%)	100%

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)	4
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	1,121 tons (Av) (+/-600cy) Est.
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost
Annual Sweeping Costs	Sweeper Repair (2015/2016)	\$3500/\$2934
• Annual budget/expenditure (labor & equipment)** Operator & Truck	(\$)/77.00/hr	\$30,800
• Hourly or lane mile contract rate ** No Contractual Services this year. Done in-house	(\$/hr. or ln mi.)	N/A
• Disposal cost** [included with trash collection contract]	(\$)	\$ 0.00
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	N
• % 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: ("N/A" = never used; "100%" = elimination)			
▪ Fertilizers	<i>(2017 Report had 4000lbs) (2018 Invoices were inconsistent between lbs and gallons)</i>	(lbs. or %)	8840 lbs
▪ Herbicides	<i>By Contract 7.2 miles of earthen dike has vegetation control</i>	(lbs. or %)	2X
▪ Pesticides		(lbs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented		(y/n)	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	69% 3% 28%
Pre-wetting techniques utilized **	(y/n or %)	N
Manual control spreaders used **	(y/n or %)	N
Zero-velocity spreaders used **	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l _n mi. or %)	0%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l _n mi. or %)	0%
% of salt/chemical pile(s) covered in storage shed(s)	(%)	0%
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2011	(y/n)	N

Water Supply Protection

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

****West Springfield: NPDES Compliance Planning for NPDES Permit No. MAR041000, July 1, 2018 ****

What we can do now:

1. The permittee shall develop and implement a written (hardcopy or electronic) **Stormwater Management Plan (SWMP)**. We know that when, and if, the New Permit comes in fruition, we will have (90) days from that date to create the NOI, and (1) Year to create an adopt a **SWMP**. Since we will also need an **Illicit Detection and Discharge Elimination Plan (IDDEP)** and **Stormwater Pollution Prevention Plan's (SWMPP)** for each of our 4DPW facilities (*DPW Yard on Westfield St., Water Department on Piper Rd., Water Treatment Plant, and all our Pump Stations Co-Located*), we could include the IDDEP and all the SWMPP's within the SWMP and make it a single comprehensive document for West Springfield's Stormwater Planning.
2. With regards to **Stormwater Program Mapping**, work with IT to see if it can be done in-house. Basically, should we add an "Impaired Waters" column to delineate high/low priority outfalls, their inspections, and if they flow directly into waters of the USA? Are most of our infrastructure and outfalls field verified?
3. With regards to **Illicit Discharge Inspection, Sampling and Testing**, Incorporate into SWMP, make reference to 2007 **Outfall Reconnaissance Inventory Sheet's (ORI)** and plan to update and create new inspections, update records, prioritize and delineate outfalls, plan to sample and to test dry flow based on New Permit. If Illicit Discharge is identified through testing, make a plan to work back upstream from discharge point and isolate the source or illicit connection point, then remediate in ample time based on New Permit standards.

New MS4 Permit Upfront Costs	Quant	To Expend Year 1 (FY2019)	Added Costs by Year 5 (FY2024)
Notice of Intent (NOI) within (90) Days of New Permit and Stormwater Management Plan/Program (SWMP) within (1) Year of New Permit	1	\$20,000	In-Kind
Written IDDE Program within (1) Year of New Permit	1	\$25,000	\$4,000
Stormwater Pollution Prevention Plan's (SWMPP) within (2) Years of New Permit	4	\$63,000	\$35,200
Drainage System Mapping within (2) to (10) Years of New Permit	1	In-Kind	In-Kind
Annual Employee Training within (1) Year of New Permit	1	In-Kind	In-Kind
Ordinance Review within (1) Year of New Permit	1	In-Kind	In-Kind
Annual Report and Record Keeping within (1) Year of New Permit	1	In-Kind	In-Kind
<i>10% Contingency Added. Figures based on Probable Cost Breakdown, Tighe & Bond, 2016 Final Permit</i>		\$118,800	\$47,530.0

**Connecticut River Stormwater Committee
Annual Report
April 1, 2017 to March 31, 2018**

The Connecticut River Stormwater Committee

The Connecticut River Stormwater Committee is an intergovernmental compact of 17 municipalities that is organized to collaborate in meeting NPDES MS4 permit requirements for stormwater education and outreach (Minimum Control Measure #1). Facilitated and staffed by the Pioneer Valley Planning Commission, the Committee also works together to meet other permit compliance activities where appropriate and needed. Member communities are shown in Table 1 below.

Table 1: Connecticut River Stormwater Committee Member Communities

Member Community	Committee Representatives and Departments
Agawam	Tracey DeMaio, Department of Public Works
Belchertown	Steve Williams, Department of Public Works
Chicopee	Quinn Lonczak, Department of Public Works
East Longmeadow	Bruce Fenney, Department of Public Works
Easthampton	Dan Murphy, Department of Public Works
Granby	Dave Derosiers, Highway Department
Hadley	Marlo Warner, Department of Public Works
Holyoke	Michael McManus, Department of Public Works
Longmeadow	Mario Mazza and Peter Vancini, Department of Public Works
Ludlow	Jim Goodreau, Department of Public Works
Northampton	Doug McDonald, Department of Public Works
Southwick	Randall Brown, Department of Public Works
South Hadley	Melissa LaBonte, Department of Public Works
Springfield	Kevin Chaffee, Planning/Conservation
West Springfield	Jim Czach and Connor Knightly, Department of Public Works
Westfield	Casey Berube and Joe Kietner, Department of Public Works
Wilbraham	Tonya Basch, Department of Public Works

* Member that joined Committee this year.

* Tim Inacio

Education and Outreach over the Past Year

The Connecticut River Stormwater Committee has moved forward several education and outreach activities under the 2003 permit. At the same time, the delayed start of the 2016 MS4 permit has provided time for the Stormwater Committee to lay further groundwork for its education and outreach program over the longer term. This includes developing a draft matrix of education and outreach activities for the next permit term, participating in the state-wide stormwater coalition education and outreach subcommittee to procure a consultant to develop a state-wide education and outreach campaign, and most recently, meeting with students from Worcester Polytechnic Institute

who are working with MassDEP to prepare a repository of stormwater education and outreach materials for use by MS4 permittees.

The narrative below summarizes the work of the Connecticut River Stormwater Committee during the 2017-2018 reporting year, which includes the following:

1. Produced 30-second radio spot as part of continued Soak up the Rain stormwater education campaign that will run on 3 stations throughout the Pioneer Valley in April 2018
2. Designed website for Connecticut River Stormwater Committee and began developing content
3. Worked with state-wide coalition on procuring services to help with design and materials for state-wide education program
4. Continued to lead urban tree planting project in Chicopee, Holyoke, and Springfield
5. Continued to lead project in Holyoke to reduce urban flows into Day Brook

In addition to these public education and outreach activities described in fuller detail below, members of the Stormwater Committee have joined PVC in other MS4 permit related activities, including:

- Conducting a series of two training workshops for municipal staff that were videotaped and organized into specific modules that can now be used for subsequent annual training required by the new permit. Designed in consultation with consultant Wright Pierce, topics covered elements under the "good housekeeping" and the "illicit discharge detection and elimination" categories of the stormwater permit. Funding for these workshops was provided in part by the Massachusetts Department of Administration and Finance's Efficiency and Regionalization grant. The videos have already been shared with other MS4s in the state and are being loaded to YouTube for easy access by any other MS4 in Massachusetts who wishes to use them. Going forward, Connecticut River Stormwater Committee members have decided to use the video training modules as part of annual events where trainees from the region come together, watch the video modules, and then engage in discussion and problem solving. This will provide for more meaningful engagement than trainees watching videos on their own. Such an annual training event might also include field visits to learn about specific and/or sampling techniques. PVC will plan to host these events as part of its Stormwater Committee work.

- Reviewing and updating municipal land use code in nine communities to meet new construction, and development and redevelopment standards within the 2016 federal stormwater permit. Funding for the code review was provided by the Massachusetts Department of Administration and Finance's Efficiency and Regionalization grant. A 10th stormwater committee member community elected to undertake code review through a fee for service arrangement with PVC. This work included review and update of provisions for control of illicit discharges, erosion and sediment control, stormwater management permitting, subdivision regulations, and zoning. A detailed checklist with recommended code language was developed as part of this work to facilitate review in additional communities going forward.

As there are still many issues to be worked out relative to code, including updating of the Massachusetts Stormwater Standards so that they better relate to the new MS4 permit requirements, and development of model language and procedures to help with off-site mitigation for redevelopment projects, PVC staff has recommended that communities not immediately adopt code changes developed under this project. PVC has noted that these

updates are not required to be in place until Year 2 of the permit effective date. PVPC staff is currently working with other members of the state-wide coalition of stormwater coalitions to fold these changes into a state-wide resource package on code updates, including a model bylaw, and the guidance being developed on off-site mitigation.

- Procuring services regionally of Wright Pierce to provide integrated stormwater system mapping and data collection to meet requirements of the new 2016 permit. Seven stormwater committee members—Agawam, Belchertown, Granby, Ludlow, Northampton, South Hadley, and Southwick – are participating in this work. Research conducted in concert with communities prior to this procurement showed significant cost savings in collaborating on this work rather than going it alone.

To date, project work has entailed development of the mapping interface with stormwater infrastructure, and development of forms to ensure that all data required in the new permit (outfall screening and sampling, manhole inspections, catch basin cleaning, etc.) can be captured in the field during inspections and then uploaded to reference with geographically specific locations within Arc GIS mapping of the storm system for analysis in defining priority catchments and annual reporting to EPA.

1. Aired Soak up the Rain radio spot

The Stormwater Committee produced a 30-second radio spot to air, starting April 2. The Soak up the Rain spot is narrated by a local radio personality and calls on people to take notice and take action. It will air 183 times in a three-week period on three different radio stations in the region, covering all Stormwater Committee member communities. It will be aired at peak and non-peak listening hours to reach a variety of different audiences. The 30-second spot reads as follows:

When stormwater flows across yards, driveways or parking lots, it picks up leaked car oil, lawn chemicals, litter and animal waste.

This contaminated water ends up in the Connecticut River.

Help keep our river clean. Don't let rain run – soak it up.

Redirect downspouts to your lawn. Use a rain barrel. Create a rain garden or install porous pavement.

Brought to you by the Connecticut River Stormwater Committee, a coalition of 17 Pioneer Valley communities.

Learn more at soakuptherain.pvpc.org



Radio stations in the region that will air the Soak up the Rain radio spot.

It is hoped that interested listeners will follow the reference to the soak up the rain web page and the Committee will be able to make some determination of the sport's effectiveness by counting the increase in clicks on the web site. Results will provide some direction to the Committee as it continues to develop its 5-year education and outreach program under the new 2016 permit.

Production of the radio spot follows on an unsuccessful 4-month effort toward adapting a stormwater video from West Michigan Environmental Action Council. Members had researched stormwater messaging videos, selected the West Michigan video, engaged a local video producer for the adaptation, and worked out the terms of an agreement with the West Michigan group. The problem arose, when the local video producer learned that the Michigan group had no high resolution video file from which to work. Given that the Connecticut River Stormwater Committee members had talked about more than website use of the adapted video, a low resolution file was not adequate. It was surprising that without a high resolution file of the video, the West Michigan group would take the conversation so far. Nonetheless, this was an important lesson in learning what the right first question is to ask when talking about video adaptation.

2. Designed website for Connecticut River Stormwater Committee

While each stormwater committee member continues to maintain and update stormwater information on each of their municipal websites, there is a need to promote stormwater information on a regional Connecticut River website. The regional stormwater website will provide one website reference for forthcoming publications and media outreach work. Links can be made from the local municipal websites to the regional website and vice versa.

Design of the Connecticut River stormwater website includes "portals" for exploring the site in two ways: as an audience enumerated in the MS4 permit (resident, business, developer, industry) and as someone interested in learning more about a specific stormwater best practice important to water quality issues in the region: lawn and yard care, pet waste management, car care, soak up the rain, turf management, and septic system care. Committee members have been talking too about the importance of finding ways to include materials for educators (stormwater curriculum lessons), and agriculture (perhaps connecting to resources through the Extension Program at the University of Massachusetts, Amherst, and any nonpoint source nitrogen reduction initiatives that may emerge). Content for the website is currently under development by PVC. It is expected that additional content will be available through the statewide coalition of stormwater coalitions, which has just hired Water Words that work to outline a state-wide education and outreach Think Blue campaign with development of some associated materials.

One important facet of this regional Connecticut River stormwater website is building the connection between enjoying and appreciating the resource and connecting to action. As such, PVC will be working with its current Connecticut River US website, maintained in partnership with the Connecticut River Conservancy, to draw stronger lines between getting out on the resource and taking action for stormwater. The Connecticut River US website has information on paddling, trails, and water quality.

HOME

ABOUT US

FOR RESIDENTIAL
PROPERTY OWNERS

FOR BUSINESS, COMMERCIAL,
AND BUSINESS FACILITIES

FOR DEVELOPERS AND
CONTRACTORS

FOR INDUSTRIAL
FACILITIES



THINK A Clean Connecticut River BLUE: *Starts with You!*



DO THE RIGHT THING

Lawn and Yard Care



Pet Waste Management



Car Care



Soak Up The Rain



Turf Management



Septic System Care



GET OUT ON THE RIVER!



ConnecticutRiver.org

HOME

About
Best Practices

ABOUT US

Who We Are
What We Do

FOR RESIDENTIAL
PROPERTY OWNERS

How To
Best Practices

Design of Connecticut River Stormwater website that is in development.

In this past year, the project completed work to increase awareness about this "secret stream" running unseen through the urban landscape. Conducted largely by project partner Enchanterd

5. Continue to lead project in Holyoke to reduce urban flows into Day Brook
 Through an EPA Urban Small Waters Grant, PVPC is developing a green infrastructure plan for Day Brook in Holyoke, which flows from west to east, remaining above-ground from Anniversary Hill Park and Community Field before being conveyed underground beneath the City and routed through the Waste Water Treatment Plant.

The project is made possible thanks to a \$239,000 grant award to PVPC from the US Forest Service under the State and Private Forestry FY15 Northeastern Area Landscape Scale Restoration Program.

- installation of 2,200 trees on local streets and yards
- final engineering design for a green streets in each municipality
- model stormwater tree rebate ordinance

4. Continue to lead urban tree planting project in Chicopee, Holyoke, and Springfield
 PVPC continues to lead an effort to promote urban tree planting in the region's 3 major cities in partnership with the US Forest Service, Massachusetts Executive Office of Energy and Environmental Affairs, the Valley Opportunity Council, Nuestras Raíces, ReGreen Springfield, Conway School of Design, Mass DCR, and the Cities of Chicopee, Holyoke, Springfield. Aimed at reducing stormwater flows to combined sewer areas and promoting greater climate resilience, the project involves an integrated community outreach process involving multiple neighborhood workshops and workshops for public works officials. Once completed, the project will provide the following major deliverables:

The following two projects, while specific to certain municipalities, are expanding awareness regionally about stormwater. They also serve to build capacity and know-how in planning, design, and education component.

3. Collaborated with state-wide stormwater coalition of coalitions
 On behalf of Connecticut River Stormwater Committee members, PVPC has been active on the larger coalition of state-wide stormwater coalitions committee and the group's education and outreach subcommittee. The group was successful in applying for and receiving a \$200,000 MS4 assistance grant to lay the groundwork for a state-wide stormwater outreach campaign. The campaign will help to define messaging, lay out a plan of work to meet education and outreach permit requirements, and develop a selection of materials for use by coalitions and municipalities. Water Words that Work was just selected as the project consultant at the end of March. PVPC staff is excited by the prospect of working with such a talented consultant that has developed state-wide stormwater campaigns in several states already. At the same time, staff is hopeful that the 5-year education and outreach framework it has been developing with Connecticut River Stormwater Committee members can be further refined with consultant input.

Circle Theater, awareness work this year followed a six-week lesson series that engaged third and fifth graders in learning about stormwater and producing artwork for use in a mural and “storywalk” about Day Brook.

The mural, which relates the unseen journey of Day Brook in Holyoke, was unveiled at a ribbon cutting event at Community Field in June. The event for the mural included stormwater learning stations, including rain gardens in a cup activities. The storywalk unveiling occurred at the Sullivan School in September as part of Arts in Education Week. Students participated in the unveiling and then spent time being stormwater detectives on the school grounds, working in teams to check off items on a treasure hunt list. The story walk, conceived as movable artwork that tells the story of Day Brook in a series of six panels, has been installed for periods of time at the Sullivan School, Community Field, City Hall, and the Public Library.



Students enjoyed the thrill of unveiling the Day Brook story walk at the Sullivan School in Holyoke. The story walk incorporated student artwork and words telling the history of Day Brook.

As part of the story walk unveiling event, a student records findings a storm drain in the stormwater detectives treasure hunt on school property in photo above. In photo at right, Sullivan School Principal John Breish talks with students about a pipe draining storm flow from the school's roof.



Local media provided good coverage of the story walk unveiling.



4/9/2018

City of West Springfield, Massachusetts Mail - Stormwater Transcript



Timothy Inacio <tinacio@townofwestspringfield.org>

Stormwater Transcript

Mayor Intern <mayorintern@townofwestspringfield.org>

Fri, Apr 6, 2018 at 1:20 PM

To: Carly Camossi <ccamossi@townofwestspringfield.org>, "Stone, Chris" <cstone@townofwestspringfield.org>, Timothy Inacio <tinacio@townofwestspringfield.org>

Chris,

I can record the voice-over one day next week. Does Wednesday around 12:30 work? If not, I can arrange another day.

Hailey

On Tue, Apr 3, 2018 at 4:27 PM, Carly Camossi <ccamossi@townofwestspringfield.org> wrote:

----- Forwarded message -----

From: Timothy Inacio <tinacio@townofwestspringfield.org>

Date: Tue, Apr 3, 2018 at 3:21 PM

Subject: Re: Stormwater Transcript

[Quoted text hidden]

[Quoted text hidden]

[Quoted text hidden]

Agenda

**Good Housekeeping Training
Westfield State University
November 8, 2017
8:30 p.m. – 11:00 a.m.**

- | | |
|---------------|---|
| 8:00 - 8:30 | Registration and Introductions |
| 8:30 - 9:00 | Module 1 and Discussion <ul style="list-style-type: none">• Background• SWPPPs 101 |
| 9:00 - 9:45 | Module 2 and Discussion <ul style="list-style-type: none">• Management Practices• Inspections |
| 9:45 - 10:00 | Break |
| 10:00 - 10:45 | Module 3 and Discussion <ul style="list-style-type: none">• Catch basin inspection, cleaning, and maintenance |
| 10:45 - 11:00 | Evaluation |
| 11:00 | Adjourn |

Two MS4 Permit Compliance Workshops for Connecticut River Stormwater Committee Members
Westfield State University, Scanlon Hall, Living Room

**Wednesday,
November 8, 2017
8:30 to 11 a.m.**

Good Housekeeping
Learn about both the specific components and scope of the Stormwater Pollution Prevention Plan (SWPPP) and the control measures required under the MS4 permit for maintenance garages, public works yards, transfer stations, and other waste handling facilities where potential pollutants are exposed to storm water. Best practices to be covered will include:

- Vehicle storage, fueling, and washing
- Storage of materials (salt & sand, petroleum products, and any other potential stormwater pollutants)
- Spill prevention and response
- Municipal facilities inspections as part of the SWPPP
- Catch basin inspection, cleaning, and maintenance
- Collection and recording of required data

**Thursday,
November 9, 2017
8:30 to 11 a.m.**

Illicit Discharge Detection and Elimination (IDDE)
Learn about IDDE program requirements, how to detect and recognize illicit discharges and sanitary sewer overflows, and use of procedures and equipment. The training will cover:

- IDDE program overview and key components
- Field screening of outfalls for dry weather flow
- Sampling and source tracking dry weather flows
- System vulnerability factors
- Sampling wet weather flows (where there is a minimum of 1 system vulnerability factor)
- Data collection and recording

Workshops are made possible with funding from the Baker-Polito Administration's Community Compact Cabinet's *Efficiency and Regionalization Grant Program*



Registration by November 1 is required. Call Mary Mazik or Paula Delskey at 413-781-6045.

Initial if present	Name	Title	City/Town	Phone	E-mail
RB	Randal Brown	Director	Southwick	413-569-3040	rbrown@southwickma.net
JTB	John Broderick	Highway Superintendent	South Hadley	413-315-0200	JBroderick@SOUTHADLEYMA.GOV
	Vivian Price	Operations Manager	South Hadley	413-315-0200	VPRICE@SOUTHADLEYMA.GOV
BAM	Bryan Manijak	DPW Highway Dept.	South Hadley	413-315-0200	
ED	Ed Beattie	DPW Highway Dept.	South Hadley	413-315-0200	
KC	Kevin Chaffee	Natural Resource Manager	Springfield	413-787-6234	kchaffee@springfieldcityhall.com
LM	Luca Mineo	Civil Engineer	Springfield	413-787-6214	lmineo@springfieldcityhall.com
	Matt Sokop	City Engineer	Springfield	413-784-4884	msokop@springfieldcityhall.com
CB	Casey Berube	Deputy Superintendent	Westfield	413-642-9397	c.berube@cityofwestfield.org
JK	Joe Kietner	Stormwater Coordinator	Westfield	413-642-9398	joseph.kietner@cityofwestfield.org
	Mike Walsh	Foreman	Westfield	413-572-6267	mike.walsh@cityofwestfield.org
	Jim Ruffo	Working Foreman	Westfield	413-572-6267	j.ruffo@cityofwestfield.org
CK	Connor Knightly	Project Manager	West Springfield	413-263-3249	cknightly@townofwestspringfield.org
JC	Jim Czach	Town Engineer	West Springfield	413-263-3244	iczach@townofspringfield.org
TB	Tonya Basch	Assistant DPW Director/ Engineer	Wilbraham	413-495-2090	tbasch@wilbraham-ma.gov
	Alejandra Mendosa		Si		Alejandra.Mendosa@textingob.us
	Andrea Tang				andreatangvalde@9mail.com
	Stacy Feasick		Ludlow		

MS4 Permit Compliance Workshop - Good Housekeeping
November 8, 2017, 8:30 to 11 a.m.

Initial if present	Name	Title	City/Town	Phone	E-mail
TD	1 Tracy DeMaio	Environmental Project Coord.	Agawam	413-821-0624	Tdemaio@agawam.ma.us
HR	2 Ron Pignatere	DPW Highway Dept.	Agawam	413-821-0624	
HR	3 Howard Rogers	DPW Highway Dept.	Agawam	413-821-0624	
SB	4 Steve Bonesteel	DPW Highway Dept.	Agawam	413-821-0624	
CL	5 Chris Laurenzo	Highway Superintendent	Belchertown	413-323-0415	cl Laurenzo@belchertown.org
EB	6 Ed Burton	Highway Foreman	Belchertown	413-323-0415	eburton@belchertown.org
DR	7 Quinn Lonczak	Project Supervisor	Chicopee	413-594-3585	qlonczak@chicopeema.gov
	8 Jeff Neece	Superintendent	Chicopee	413-594-3557	jneece@chicopeema.gov
	9 Ela Soja	Assistant Superintendent	Chicopee	413-594-3557	esoja@chicopeema.gov
DM	10 Dan Murphy	City Engineer	Easthampton	413-665-5555	dmurphy@easthamptonwater.com
	11 Bruce Fenney	Superintendent	East Longmeadow	413-246-3685	bruce.fenney@eastlongmeadow.gov
DD	12 Dave Desrosters	Highway Superintendent	Granby	413-467-7575	daved@granbyma.org
BR	13 Brian Pike	Mechanic	Granby	413-467-7575	
BR	14 Ross Aurrhammer	Mechanic	Granby	413-467-7575	
V	15 Andy Krar	Town Engineer	Longmeadow	413-567-3400	akrar@longmeadow.org
V	16 Pete Vancini	Engineering Aide	Longmeadow	413-567-3400	pvancini@longmeadow.org
V	17 Doug McDonald	DPW Highway Dept.	Northampton	413-587-1582	dmcDonald@northamptonma.gov
V	18 Rich Parasiliti	DPW Highway Dept.	Northampton	413-587-1582	



42 Longwater Drive
 P.O. Box 9149
 Norwell, MA 02061
 800.282.0058
WWW.CLEANHARBORS.COM

Official Household Totals

Date of Event 10/21/17

Location/Site Address 430 Westfield St.
W. Springfield 01089

Household Equivalent: ^{18 lbs} 11 - 25 Gallons / Lbs = 1 Full Household
^{7 lbs} 4 - 10 Gallons / Lbs = 1 Half Household
^{2 lbs} 1 - 3 Gallons / Lbs = 1 Quarter Household

Total - Full Households: 48 x 18 lbs = 864 (221)
 Total - Half Households: 48 x 7 lbs = 336 1356 Lbs
 Total - Quarter Households: 78 x 2 lbs = 156 1678 Lbs
or
.68 Tons

Total Vehicles: ~~154~~ 174 under (221) 7.8 Lbs per car

To be signed by a representative and the assigned Clean Harbors Car Counter/or Project Manager upon review and agreement to the totals above: x 46 =

[Signature]
 Authorized Town/City Representative
 Signature

William A GUEVREMONT III
 Print Name and Title
 Deputy Director DPW operation

[Signature]
 Authorized Representative/Clean Harbors
 Car Counter/or Project Manager
 Signature

Barbara Ann Hossler
 Print Name and Title



Sweeper Droppings

2013

<u>Month</u>	<u>Town</u>	<u>Tonnage</u>
Jan.	Spfld	None
	Wspfld	None
Feb.	Spfld	None
	Wspfld	None
Mar.	Spfld	None
	Wspfld	127.33
April	Spfld	367.95
	Wspfld	91.5
May	Spfld	524.56
	Wspfld	218.24
June	Spfld	253.8
	Wspfld	129.18
July	Spfld	264.39
	Wspfld	88.53
August	Spfld	220.67
	Wspfld	69.81
Sept.	Spfld	163.9
	Wspfld	40.95
Oct.	Spfld	121.2
	Wspfld	None
Nov.	Spfld	110.09
	Wspfld	140.2
Dec.	Spfld	None
	Wspfld	None

tons
CY 2013 905.74
" 2012 1,083.93
" 2011 1,236.89
" 2010 1,257.99

Ave. 1,121.1

TOTAL 1.1/SPFD = 905.74

Sweeper Droppings

2012

<u>Month</u>	<u>Town</u>	<u>Tonnage</u>
Jan.	Spfld	31.89
	Wspfld	none
Feb.	Spfld	none
	Wspfld	41.69
Mar.	Spfld	120.13
	Wspfld	155.29
April	Spfld	234.91
	Wspfld	246.44
May	Spfld	352.8
	Wspfld	110.16
June	Spfld	254.88
	Wspfld	272.08
July	Spfld	116.21
	Wspfld	56.89
August	Spfld	174.59
	Wspfld	32.62
Sept.	Spfld	98.78
	Wspfld	0
Oct.	Spfld	149.89
	Wspfld	168.76
Nov.	Spfld	96.66
	Wspfld	0
Dec.	Spfld	20.54
	Wspfld	0

TOTAL 11/10 - 1,492.00

Sweeper Droppings
2011

<u>Month</u>	<u>Town</u>	<u>Tonnage</u>
Jan	None	
Feb	None	
March	Spfld	231.29
	Wspfld	56.42
April	Spfld	379.72
	Wspfld	202.83
May	Spfld	615.75
	Wpfld	295.46
June	Spfld	354.41
	Wspfld	77.12
July	Spfld	244.98
	Wspfld	115.05
August	Spfld	407.1
	Wspfld	194.74
Sept	Spfld	173.09
	Wspfld	91.4
Oct	Spfld	190.48
	Wspfld	203.87
Nov	Spfld	92.96
	Wspfld	0
Dec	Spfld	142.66
	Wspfld	0

TOTAL W/SPFLD = 1,236.89

Sweeper Droppings
1/1/10

April	Spfld:	641.54
	W Spfld	189.02
May	Spfld	485.98
	W Spfld	142.85
June	Spfld	469.01
	W Spfld	79.3
July	Spfld	198.43
	W Spfld	3.68
Sept	Spfld	212.49
	W Spfld	2.88
Oct	Spfld	196.46
	W Spfld	65.71
Nov	Spfld	192.09
	W Spfld	497.22
Dec	Spfld	0
	W Spfld	277.33

TOTAL FROM APRIL TO DEC. W/SPFLD. = 1,257.99

WS DPW HazWaste Collection Day Hotwash [21 October 2017]

Events statistics:

- Total Clean Harbors (CH) contract cost = \$6,400.00 for 174 vehicles
 - Setup fee of \$1000.00
 - 48 full car loads x \$50 each = \$2,400.00
 - 48 half car loads x \$30 each = \$1,440.00
 - 78 small car loads x \$20 each = \$1,560.00

- Total # of vehicles processed = 221 by DPW & CH
 - 215 had appointments
 - 10 arrived without appointments
 - 16 no shows = 20 (8% of total appointments)
 - 47 cars processed by DPW only (all HazWaste items were processed by DPW alone)

After Action Review Comments

- Conducted PCI of equipment week days prior; buy expendables four days prior to receive order as identified needed. – All required PPE was on hand.
 - ✓ PPE for this event:
 - ✓ Long sleeves shirts & pants
 - ✓ Gloves (with protective coating)
 - ✓ Glasses
 - ✓ Vests / DPW Yellow shirts
 - ✓ TVEC suits available
 - ✓ Hard toe shoes
 - ✓ Hard hats
- Conducted safety brief and PPE check the day prior (Friday) to the event – reinforced PPE were to be worn during the event.
- Produce station signs – this did not happen – scheduled for the sign shop this winter to be ready for next year.
- Included station map and entrance location on the advertisement flier – however cars came much earlier than appointment so they lined up from both West and East directions anyway. East line extended into the intersection of City View Ave so improved traffic plan is needed.
- Plan for 15 min mid event break for all, (bio-break) since I am not allowing eating and drinking on station Having 1 runner/replacement W4 was useful and support bio-breaks as they were needed.

- Allow 30min past appointment to proceed vehicles in line – this year all vehicle were processed by 12:15pm – gate left open until 12:30pm in case anyone was a little late – and- we still had funds to process more cars.
- Clean Harbors arrived 2 hours prior to event to set up (7am)
- Continue appointments, as this distributes the flow/load throughout the event and prevents vehicle congestion – Make less appointments per time period. This year we had 11 appointment slots per 10min. We should make 12 appointments per 15min.
- If we suspected a contractor load, very large amount, then take a picture of the load and reject it. Note the rejection with attached picture. We did not have this issue this year.
- Checked yard for tire damaging debris to prevent damage to guest tires – we swept the yard and removed any large debris to remove risks to resident vehicles – continue to do this.
- Clean Harbors will need a dump truck for dunnage and empty container trash collection – we provided this – they will need two next year as this year, even with a light / low volume turnout they completely filled one dump truck (truck453). This dump truck will have a liner and can be taken to our K&W transfer point for disposal as long as the contents are no more than damp (not dripping) with residue F.O.G. (+)
- Pre-schedule pick-up of what we (DPW) collects for the next immediate Monday – See waste stream chart for points of contacts to remove the stuff that clean Harbors does not take.
- No forklift needed, CH has their own and does not need the support and we had no need for it either. However having one W7-SMEO&L is required to assist on other large items transport (TVs etc) and moving pallets of HazWaste in the yard.
- We again filled the electronics 20ft container with mostly TVs during this event – continue having this container empty a few days before the event.
- CH contractor personnel needed access to the bathroom, (male and female) – ensure bathrooms are functional and tidy.
- Have radios for;
 - Each Foreman (2)
 - Ops Deputy
 - Admin - inspector
 - Clean Harbors supervisor
- DPW workforce provided for this event was:
 - 1x Operations Deputy [Guevremont – Salary]
 - 2x Traffic Officers [WSPD] one each at entrance and exit to the DPW Yard.
 - 2x Foreman [Station #4 and Station #5 + traffic control]
 - 2x @ FOG station #4 [TBD] – 1xW5-Mechanic & 1x W4

We need to add one more W4 Laborer at the batteries and light bulbs location between the trash dumpster and the FOG station – The runner did when he was not pulled away to replace those going for a bio-break. There is enough volume for this location as it was one of the choke points in the line.

- 1x @ Trash station #3 – 1x W4
- 1x Admin @ station #1
- 2x @ Recyclables station #5 [TBD] – 1x W7 & 1x W4

○

Subject: October 21, 2017 Household Hazardous Waste collection at 430 Westfield Street 9am to 12pm
 This list is to be used by the Dpw employee that greets the cars and checks the licenses / checks them off
 Date this list last revised: 8/30/2017

Please ask the caller how much material they have in gallons or pounds and what the material is
 Town cost is \$50.00/car "full" with 25 gallons or 25 pounds
 Town cost is \$30.00/car "half full" with 10 gallons or 10 pounds
 Town cost is \$20.00/car "quarter full" with 3 gallons or 3 pounds

NO SHOWS - 16

TOTAL CARS 231

HHW 10/21/17

Time	Name	Street/Phone	Items
9:00	Sue/Tim Chambers	247 Laurel Road / 413-455-3061	oil base paint
	Diane Arnold	114 Westwood Dr. / 413-495-1802	electronics
	Jerry Drudi	161 Edgewood Road / 413-734-5502	1/4 load
	Christine Doe	39 Van Horn Street / 413-736-1301	Full load
	Kathy Felsentreger	96 Pierce Street / 413-306-8210	Full load
	Thomas Costa	114 Valleybrook Rd 413-786-9614	1/4 Load
	Charles Rodgers	176 Circle Dr. 413-788-0159	Car Batteries
	Marlene Menard	40 Bridle Path Rd / 413-896-5127	1/4 load of paint
	Cynthia Valentine	127 Gill Street/ Chic. 413-210-6003	Assorted load
	John Kowalczyk	87 Herman Street / 413-733-7670	1/4 Load
	Ron Carroll	84 Sagamore Rd. / 413-736-4874	pesticide, spray cans, rust pre
9:10	Mike Barrett	51 Piper Road / 413-747-0148	rechargeable batteries, mercury therm.
	Theresa Urtecht	550 Dewey / 413-747-1715	3 containers of Gas
	Ronald Thompson	33 Buckingham Ave 413-733-9047	oil base paint pesticides
	Richard Polasty	49 Allison Ln / 413-785-1332	Oil Thermostat
	Christine Godek	54 Warick Rd 413-885-2931	assorted items
	Jeff Buddhagen	53 Hummingbird Ln 413-231-3970	Motor Oil
	Mark Norman	254 Neeley Ave / 413-896-6685	Paints and supplies
	Martann Grabiec	25 Squire Dr. / 413-739-3633	thompson water seal, assorted items
	Edward Mangini	27 Forest Ridge Rd. / 413-788-7096	
	Joyce Corona	89 Circle Dr. / 413-626-5852	
	Jason McCormick	165 upper Beverly Hills / 413-237-8203	
	Terry Mcgugan	126 Lancaster Ave. / 413-519-2650	
9:20	Michelle FlorenceBennet	52 Worthy St. / 413-587-4797	electronics, propane tk, antifreeze
	Dana Henderson	31 Northwood Ave. / 413-885-2931	TV, Motor Oil
	Angela Kozikowski	41 Bernie Ave. / 413-885-2931	1/2 Load
	fertilers/ pesticides		
	Dana Henderson	31 Northwood Ave. / 413-734-3385	1/2 load of mixed items
	Andy Lozyniak	229 Jeffrey Ln / 413-732-2368	Mixed oil paint 1/4 load
	Tom Vallon	408 Amstown Rd. / 413-626-4418	Assorted items from list
	Jennifer Bennett	14 Orange st. / 413-237-0454	Assorted items from list
	Arma Randall	47 Clayton Dr. / 413-731-9162	
	Bob Talaga	49 Hillcrest Ave. / 413-788-9518	motor oil Fluorescents
	James MacAleer	29 Rockland Dr. / 413-734-3676	Fertilizers Fall
	Theresa Finelli	51 Ashley St. / 413-736-1386	
9:30	Dorothy Gomez	135 Rogers Ave. / 413-734-8821	lead paint, varnish
	Peter Lapik	102 New Bridge St / 413-883-0065	1/2 load
	Robert Walker	848 Dewey Street / 413-732-4404	1/2 load
	Rita Dempsey	226 Ashley Street / 413-961-9431	1/2 load
	Judy Simpson	153 Verdugo Street / 413-739-1449	Full load
	Mark Norman	254 Ely Ave / 413-896-6685	Full load
	Nancy Kenyon	140 E Gooseberry Rd. 413-788-6444	PT. Wood Pool chemicals arsol cans
	Barry Hirsch	225 Woodbrook Terr. / 413-732-4937	11 cans of stain, oil paints thinners
	Sue Martini	43 Herman St. / 413-537-4396	Yard, Garage, House
	Derek Barlow	57 Burke Ave. / 413-664-7490	cleaning supplies, electrical
	Betty Yacovone	307 Landcaster Ave. / 413-737-9577	Propane tank, antifreeze, paint

Thompson 12-20-17

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Please ask the caller how much material they have in gallons or pounds and what the material is

Town cost is \$50.00/car "full" with 25 gallons or 25 pounds

Town cost is \$30.00/car "half full" with 10 gallons or 10 pounds

Town cost is \$20.00/car "quarter full" with 3 gallons or 3 pounds

38 Peach Stone Glenn / 413-289-4457	household items, spray paint	Karen Silva	
5 Saxton St. / 413-563-2702	oil, paint, pesticide, rust preventive	Eileen Cullinan	
1510 Morgan rd. / 413-537-0311		Gerald Krywicki	
143 Pine Street / 413-788-6408	electronics	Nancy/David Carr	
54 morningside Terr. / 413-732-4625		Jenny Starzic	
17 Highland Lane / 413-733-5421	1/2 Load	Christine Bismere	10:20
57 Crawl Ave. / 413-739-5512	1/4 Load	Terry Vosburgh	
62 Sherwood Ave. / 860-978-0752	1/4 Load	Chuck Torre	
33 Jennifer Dr. / 413-737-1527	Oil Paints	Ed Kallmeyer	
75 Robinson Dr. / 413-736-7230	TV, Cleaning supplies Gas, Stains/	Gordan Dushane	
11 Belmont Ave. / 413-746-0251	pesticides, oil paint, motor oil	Linda Parent	
75 Robinson Dr. / 413-736-7230		Gordan Dushane	
69 Gooseberry Rd. / 413-335-3364		Janet Kazar	
212 Ely Ave. / 413-310-5236		Paul Klorer	
373 Bernie Ave. / 413-733-7397	oil paint, sealants	Jackie D'Andrea	
234 Bear Hole		Jim Calabrese	
97 Clayton Dr. / 413-737-4806	electronics, TVs printer	Chuck Terzi	
48 Churchhill Rd. / 413-736-6663	pool chems, Oil paint	Ann Morrison	
25 Colony / 413-734-4139	Full Load	Beverly Pierce	10:30
139 Jenson Circle / 413-478-7250	paint, antifreeze, electronics oil	James Harper	
30 Rockland Dr. / 413-733-1089	battery pack, TV	Judy Micklewicz	
163 Cayenne St. / 413-747-0882	2 TVs HH cleaners	Carol Micklewicz	
178 Rogers Ave. / 860-881-2444		Rob Bishop	
114 Farnum St. 413-733-5859	stains, aerosol cans	David Edgerly	
103 Breton Rd. / 413-734-1931		Todd Rossam	
75 Harwich Rd. / 860-278-6764	paint supplies & thinner	Justin Latham	
135 Blossom Rd. / 413-636-3216		Arthur Schutt	
43 Kings Terr. / 413-244-6897	Pesticides	Dayle Brennan	
681 Piper Rd. / 413-739-7925	Paints,	Jonathan Popp	
71 Humphrey Ln / 413-747-1725		Debra Schmit	
12 Jennifer Dr. / 413-788-7679		George Thomson	10:40
119 Church Hill Rd. / 413-732-1735	fire extg. Gas, oil, flares	Bruce Whyte	
361 Kings Highway / 413-737-0482	sprays, fire ext. Fluorescents, gas, oil	Richard Aurnhammer	
88 Lanturn Ln / 413-739-1392	fire extg. Gas, oil,	Ea Biellin	
762 Morgan Rd. / 413-737-5877	fire ext., gas, oil	Robert Webb	
7 Amesdown Rd. / 413-732-6566	PT wood Cleaners	William Goodwin	
77 Belnap Ave. / 413-788-9774	Batteries	Theresa Vaselacopoulos	
57 Wayside Ave. 413-301-6618	propane tank electronics	John Grabiec	
274 Lancaster Ave. / 413-734-4516	antifreeze, chemical, freon	Bob O'Brien	
61 Locust St. / 413-250-3128	Garage, brake fluid	Richard Deleonards	
243 Saw Mill Rd. / 413-732-0487	motor oil, oil base, electronics	Anthony Contrada	
108 Rogers Ave. / 413-736-8769	electronics	John Reska	
32 Quarry Rd. / 413-747-0715	motor oil, Kerosene	Jerry Donovan	
550 Bernie Ave. / 413-733-1954	Fire ext. round up, pesticides	Regina Brusio	10:50
110 Cityview Ave. / 413-731-8202	assorted items	Betty Spring	
23 Maple Hgts. / 413-530-5955	motor oil, VCR, Fluorescent bulbs	Diana Pappas	
60 Hewitt St. / 413-737-0522	Propane tvs	Susan Cheney	
67 Oakland St. 413-433-7454	Garage items	Richard McKenna	
164 Canterbury Way / 413-316-0032	paint, moth balls Fluorescents	John Collins	
763 Prospect Ave. / 413-737-2508	bulbs, oil, electronics	Ted Kmiecik	

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William Ellis	117 Paucaluck Rd. / 413-896-3711	
Dana King	38 Van Horn St. / 413-433-0926	fertilizer, deck stain, coleman tanks
Maria Pacifi	315 dewey St. / 413374-1450	oil, anti freeze
Mike Flala	88 Northwood Ave. / 413-746-0498	spray cans
Mike Pasternak	64 Bacon Ave. / 413-265-5676	concrete sealer
Mike Heath	100 Brookline Ave. / 413-330-6018	oil electronics
Richard Kazmerrick	1052 piper Rd. / 413-827-8937	paint
Mark Hunter	615 Rogers Ave. / 413-519-1873	2 gal. oil, oil printer
Alan Hunter	619 Piper Rd. / 413-732-9702	driveway sealer
Loretta Rattelsdorfe	106 Kelly Dr. / 413-736-5971	fertilizer
Carl Soott	Druids Ln. / 413-231-4156	fluorescent bulbs
Nancy Misielak	57 Stone Path Rd. / 413-737-4291	lvs propane tanks
Mark McCabe	12 Ivy Hollow. / 617-230-1625	
Jonathan Jackowski	93 Green Meadow Ln 733-6022	
Kevin Ashley	28 Mosher St. / 413-356-8823	
Susan Rabbitt	58 Sweet Fern Dr. / 413-739-5926	
Joyce Lynch	135 Warren St. / 413-737-2536	Assorted items 1/2 load
Shirley Sheehan	436 Brush Hill Rd. / 413-739-2065	Cleaning supplies, yard sprays
Maria Mercier	24 Old barn Rd. / 413-737-8572	Paints
John Dominick	772 Morgan Rd. / 413-209-0263	5 gallons paint PT wood

Dianne Quaglini	26 Bonnie Bray Dr. / 413-788-4972	
Debra Fussler	149 Meadow Brook Ave. / 413-306-5488	
Robert Herbold	100 Macgregor Rd	
Rosalea Wfearny	31 Chestnut Dr	
Carl Weisza	58 Bacon Hill Rd	
David O Plummer	580 Gray Trnt	
Walter Madams	49 Poplar Ave	
Mary Williams	49 Vachon Hill St	
Thomas Little	80 Barchelor St (Spray)	
LAST	55 Van Horn St	Full

9 South Lygza 195 Burtman Hill
 10 Garrett Corey 105 Barchelor Dr 1/4

38



INVOICE
Invoice No 1002089042

OFFICE:
Clean Harbors Environmental Services,
Inc.
761 Middle Street
Bristol, CT 06010 - 0000
(860) 583-8917

JOB SITE/GENERATOR:
Clean Harbors Env Services Inc
430 Westfield Street
West Springfield, MA 01089

If you have any questions regarding this invoice, please contact your customer service representative at the telephone number listed above

REMIT TO:
Clean Harbors Env. Services
PO Box 3442
Boston, MA 02241-3442

SOLD TO:
William Guevremont
West Springfield Town Of
26 Central Street
West Springfield, MA 01089 - 0000

EIN: 04-26989999

Job Description: HHW Service West Springfield 10/21/17

Last Service Date	Invoice No	Customer	Branch	Sales Order	Purchase Order	Terms
21 Oct 2017	1002089042	WES3859	C2	1705324582	ROBERT COLSON	Net 30 Days

Last Service Date	Task	Task Type	Description	Total
21 Oct 2017	1705324582-001	GENERAL	Setup Fee Region 1 & 2	\$1,000.00
21 Oct 2017	1705324582-002	GENERAL	Disposal Per Car - Full/Half Car	\$3,840.00
21 Oct 2017	1705324582-003	GENERAL	Disposal Per Car - Small-load (3 lbs or 3 gal)	\$1,560.00
SUBTOTAL				\$6,400.00
TAX				\$0.00
PLEASE PAY THIS AMOUNT → INVOICE TOTAL				\$6,400.00

REMIT PAYMENT BY → DUE DATE 10 Dec 2017

Interest will be charged at a rate of 1.5% per month for all past due amounts
PLEASE RETURN A COPY OF INVOICE WITH PAYMENT - THANK YOU

Invoice Date - 10 Nov 2017



INVOICE
Invoice No 1002089042

TASK 1705324582-001 - Setup Fee Region 1 & 2

Item ID	Description	Fixed Price Amount	Percent Complete	Billable Amount
21 Oct 2017				
FIXD	Setup Fee Region 1 & 2	1,000,000.00	100%	\$1,000.00
				SUBTOTAL
				\$1,000.00
				TAX
				\$0.00
				TASK TOTAL
				\$1,000.00

TASK 1705324582-002 - Disposal Per Car - Full/Half Car

Item ID	Description	Qty	Units	Unit Price	Amount
21 Oct 2017					
DISPSL / FB1	CONSOLIDATED SOLVENTS HHWFB1	4,000	55DM	0.0000	\$0.00
DISPSL / LCHG2	Labpack Mercury Devices or Debris for Retort LCHG2	1,000	05DF	0.0000	\$0.00
DISPSL / LCCRQ	RCRA MIXED AEROSOLS HHWLCCRQ	1,000	FBIN	0.0000	\$0.00
DISPSL / LPTP	PROCESSABLE PAINTS IN CANS HHWLPTP	8,000	FBIN	0.0000	\$0.00
DISPSL / LCCRC	RCRA EXEMPT PESTICIDE LIQUIDS IN CONSUMER PACKAGING HHWEPESTL	7,000	55DF	0.0000	\$0.00
DISPSL / LCCRD	Labpack Flammables For Incineration LCCRD	1,000	05DM	0.0000	\$0.00
DISPSL / LCCRO	Labpack Oxidizers For Incineration LCCRO	1,000	16DF	0.0000	\$0.00
DISPSL / LRCTO	Labpack Reactive Oxidizers For Incineration LRCTO	1,000	05DF	0.0000	\$0.00
DISPSL / LCCRC	RCRA EXEMPT PESTICIDE SOLIDS IN CONSUMER PACKAGING HHWEPESTS	2,000	FBIN	0.0000	\$0.00
DISPSL / LCCRA	Labpack Acid & Acid Compatibles For Incineration LCCRA	1,000	05DF	0.0000	\$0.00
DISPSL / LAT-B	Labpack Basic & Basic Compatibles For Aqueous Treatment LAT-B	2,000	55DF	0.0000	\$0.00
DISPSL / LCCRC	Labpack Organics For Incineration LCCRC	1,000	55DF	0.0000	\$0.00
DISPSL / LCCRB	Labpack Basic & Basic Compatibles For Incineration LCCRB	1,000	55DF	0.0000	\$0.00
DISPSL /	Labpack Acid & Acid Compatibles For	1,000	55DF	0.0000	\$0.00



INVOICE
Invoice No 1002089042

Item ID	Description	Qty	Units	Unit Price	Amount
LAT-A	Aqueous Treatment				
FIXD	Half Car	48,000	Half Car	30.0000	\$1,440.00
FIXD	Car	48,000	Car	50.0000	\$2,400.00

TASK 1705324582-002 - Disposal Per Car - Full/Half Car

SUBTOTAL					\$3,840.00
TAX					\$0.00
TASK TOTAL					\$3,840.00

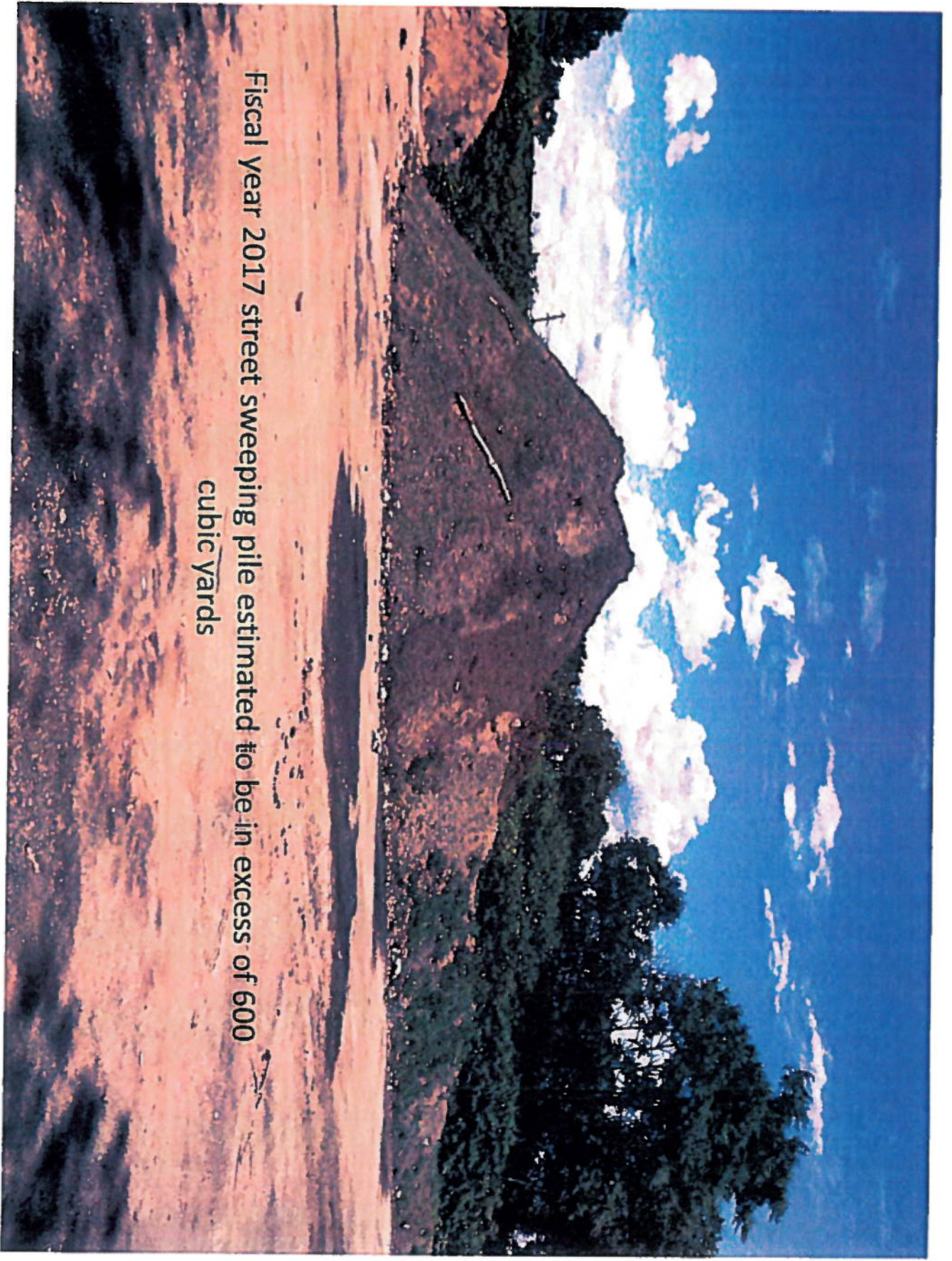
TASK 1705324582-003 - Disposal Per Car - Small-load (3 lbs or 3 gal)

Item ID	Description	Qty	Units	Unit Price	Amount
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FIXD	Car	78,000	Car	20.0000	\$1,560.00
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21 Oct 2017

SUBTOTAL					\$1,560.00
TAX					\$0.00
TASK TOTAL					\$1,560.00



Fiscal year 2017 street sweeping pile estimated to be in excess of 600 cubic yards

