Final Report Form
FY24 BWR Grants

Grant Program: MS4 Municipal Assistance Grant Program FY24

Grant Recipient: Merrimack Valley Planning Commission

Project Title:

Date: 6/28/24

Project Description: *Please briefly summarize your project and project outcomes.*

The focus of this project was to transition and upgrade the region's stormwater inspection field collection program software. The old Esri-based GIS software, which was run by 8 of the region's communities, stood as a key backbone to MS4 programs by facilitating asset management and planning for IDDE programs, Operation and Maintenance of assets, and replacement of essential stormwater infrastructure. This platform is due for retirement in 2025 by Ersi, and thus MVPC made the leap to transition all stormwater inspection systems to Esri's new Experience Builder platform. Over the course of the grant, MVPC successfully transitioned all 8 stormwater applications to this new platform, added new platform functionalities, and trained municipal staff on the tool's new operation. The transition and revamp of these stormwater applications positions municipalities well to prepare for Esri's switch to Experience Builder and continue mapping assets and conducting planning exercises related to their stormwater program for MS4 compliance.

Project Deliverables: *Please list project deliverables and provide documentation (e.g. photos, links, plans, reports, etc.).*

- Attendance sheet from kickoff meeting
- Survey results from kickoff meeting
- 8 draft and final stormwater inspection applications (draft applications was an interim deliverable, only final applications are documented)

Stormwater Utilities by Community
Boxford - https://app.mvpc.org/BoxfordStormwater
Georgetown- https://app.mvpc.org/GeorgetownStormwater
Rowley- https://app.mvpc.org/RowleyStormwater
Newbury- https://app.mvpc.org/NewburyStormwater
West Newbury - https://app.mvpc.org/WestNewburyStormwater
Groveland- https://app.mvpc.org/GrovelandStormwater
Salisbury- https://app.mvpc.org/SalisburyStormwater
Newburyport- https://app.mvpc.org/NewburyportStormwater

- Additional platform functionalities:

The upgraded application platform, Experience Builder, is a highly customizable web mapping application. This platform can connect with web maps hosted in ArcGIS Online, and allow users to interact with maps, widgets, charts, and tables. The focal point of the apps is the web map. Users can interact with the map by zooming into areas, selecting features to see pop-up windows appear with additional information, measure planimetric distances, turn map layers on or off, search for specific locations, and print map views. An attribute table can be expanded over the map to see all stormwater features hosted in the map. Users can select which layer they'd like to see all information for by selecting the feature layer name from the drop-down in the attribute table. Individual features can be selected in the attribute table, and the map will respond

by panning and zooming to the corresponding feature. Additional functionality can be found in the filter widgets integrated above the web map. Users can select information from pre-built widgets to filter the map view. Additionally, a chart reporting feature quantities or qualities is available for community reporting needs. Widget queries and chart statistics can be customized to community needs. Users can also edit or delete map features in the editing pane of the stormwater applications. Once a stormwater feature has been selected, users can change attribute information as needed, or delete the feature entirely. Delete protection can be turned on for ArcGIS Online map features in the event communities want data protection.

- MVPC Stormwater Application Training

Completed by: Cecelia Gerstenbacher, Environmental Program Manager   Date: 6/28/24

Meeting ID	Topic	Start Time	End Time	User Email	Duration	Participants
83819257653	April Stormwater Collaborative Meeting	4/3/24 8:26	4/3/14 9:12	enviro@mvpc	46	15

Name	User Email	Guest
MVPC Environment	enviro@mvpc.org	No
Macklen Wier	mwier@mvpc.org	Yes
Chris Olbrot	colbrot@town.boxford.ma.us	Yes
Alyssa Sexton	asexton@townofmerrimac.com	Yes
Wayne Amaral	wamaral@newburyportma.gov	Yes
Patrick Reed	preed@mvpc.org	Yes
Sarah Reny	sreny@mvpc.org	Yes
Christine Wallace	dpwprojects@wnewbury.org	Yes
Felix Garcia	fgarcia@ci.methuen.ma.us	Yes
Amy Maxner	amaxner@northandoverma.gov	Yes
Renny Carroll	rcarroll@grovelandma.com	Yes
Ross Povenmire	rpovenmire@town.boxford.ma.us	Yes
Lisa DeMao	demeol@amesburyma.gov	Yes
Steve Lopez	slopez@mvpc.org	Yes
Curtis Johnson	cjohnson@northandoverma.org	Yes

Which community do you represent?	How does your current MS4/stormwater application work for your community? (Good, bad, etc.)	Does your community currently report when (date/time) a catch basin was cleaned?	Does your community currently report if an outfall or catch basin is submerged?	What general enhancements(s) would you like to see in a new iteration of the MS4/stormwater application? (Easier navigation, additional features, etc.)	Does your community need the ability to add or delete data points, or just the ability to update/edit data on each feature?	How can this tool be used to streamline MS4 reporting?	Do you have any additional information which may be relevant to the application?
Boxford		Yes	Yes				
Boxford	Great!	Yes	Yes	Copy and paste feature. When we had an intern enter the info he had place a drop inlet were a catch basin is and we have to delete all the info reenter under a new point with a new number. A cleaning tab for either basins/culverts/outfalls/inlets and pipes for maintenance.	Yes, we are always finding or adding new structures.	Maybe a chart on an area of town that has seen more cleaning or work then others.	The availability to connect to surrounding town system that may share connections to drainage.
Boxford	Good	Yes	No		Add and delete	printable reporting on cleaning info	
Rowley	not sure about our current use	No	No		edit/update	need to use it more to comment	