

# Stormwater Pollution Prevention Plan

Loch Arbour Village

Monmouth County

NJPDES # NJG 0153516

Revised - July 9, 2019

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## SPPP Form 1 – SPPP Team Members

All records must be available upon request by NJDEP.

<b>Stormwater Program Coordinator (SPC)</b>	
Print/Type Name and Title	Peter R. Avakian, PE /Village Engineer
Office Phone # and eMail	(732) 922-9229 lsavakian@aol.com
Signature/Date	<div style="border-bottom: 1px solid black; width: 80%; margin: 0 auto; height: 20px;"></div> DATE: _____
<b>Individual(s) Responsible for Major Development Project Stormwater Management Review</b>	
Print/Type Name and Title	Peter R. Avakian, PE /Village Engineer
Print/Type Name and Title	
Print/Type Name and Title	
Print/Type Name and Title	
Print/Type Name and Title	
<b>Other SPPP Team Members</b>	
Print/Type Name and Title	Marilyn Simons - Municipal Clerk Public Notice Coordinator
Print/Type Name and Title	
Print/Type Name and Title	
Print/Type Name and Title	

## SPPP Form 2 – Revision History

All records must be available upon request by NJDEP.

	<b>Revision Date</b>	<b>SPC Initials</b>	<b>SPPP Form Changed</b>	<b>Reason for Revision</b>
1.				
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### SPPP Form 3 – Public Involvement and Participation Including Public Notice

All records must be available upon request by NJDEP.

1. Website URL where the Stormwater Pollution Prevention Plan (SPPP) is posted online:	<a href="http://locharbournj.us/locharbourfaqs.html">http://locharbournj.us/locharbourfaqs.html</a>
2. Date of most current SPPP:	July 9, 2019
3. Website URL where the Municipal Stormwater Management Plan (MSWMP) is posted online:	<a href="http://www.locharbournj.us/Resources/StormwaterMgmtPlan2008.pdf">http://www.locharbournj.us/Resources/StormwaterMgmtPlan2008.pdf</a>
4. Date of most current MSWMP:	November 12, 2008
5. Physical location and/or website URL where associated municipal records of public notices, meeting dates, minutes, etc. are kept:	<a href="http://locharbournj.us/locharbouragenda.html">http://locharbournj.us/locharbouragenda.html</a>
6. Describe how the permittee complies with applicable state and local public notice requirements when providing for public participation in the development and implementation of a MS4 stormwater program:	
<p>The Village of Loch Arbour provides public notice of meetings in compliance with the Open Public Meetings Act (N.J.S.A. 10:4-6 et seq.). The Village also provides public notice for municipal actions in accordance with the Municipal Land Use Law (N.J.S.A. 40:55D –1 et seq.).</p>	

## SPPP Form 4 – Public Education and Outreach

All records must be available upon request by NJDEP.

1. Describe how public education and outreach events are advertised. Include specific websites and/or physical locations where materials are available.

Public Education and outreach events are advertised on the Borough website at <http://locharbournj.us/> and with fliers and public announcements at the Board of Commissioners meetings. Additional educational materials are available to the public at the Municipal Building.

2. Describe how businesses and the general public within the municipality are educated about the hazards associated with illicit connections and improper disposal of waste.

Educational information is conveyed to businesses and the general public via the Borough website as well as fliers posted at the Municipal Building. Announcements are also made at meetings of the Deal Lake Commission and on the Commission website.

3. Indicate where public education and outreach records are maintained.

Public education and outreach records are maintained at the Municipal Clerk's office.

## SPPP Form 5 – Post-Construction Stormwater Management in New Development and Redevelopment Program

All records must be available upon request by NJDEP.

1. How does the municipality define 'major development'?
As per the Loch Arbour Village Stormwater Control Ordinance " <i>Major development</i> " means any "development" that provides for ultimately disturbing one or more acres of land or increasing impervious surface by one-quarter acre or more. Disturbance for the purpose of this rule is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Projects undertaken by any government agency which otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq. are also considered "major development."
2. Does the municipality approach residential projects differently than it does for non-residential projects? If so, how?
No, residential and non-residential projects are approached the same way.
3. What process is in place to ensure that municipal projects meet the Stormwater Control Ordinance?
The Village Engineer evaluates all applications for compliance with the Stormwater Control Ordinance.

<p>4. Describe the process for reviewing major development project applications for compliance with the Stormwater Control Ordinance (SCO) and Residential Site Improvement Standards (RSIS). Attach a flow chart if available.</p>	
	<p>The Village Engineer reviews all major development applications for compliance with the Village ordinances and Residential Site Improvement Standards (RSIS). Any application before the Planning or Zoning Board will not be approved unless it complies with both the Village ordinances and the RSIS.</p>
<p>5. Does the Municipal Stormwater Management Plan include a mitigation plan?</p>	<p>Yes</p>
<p>6. What is the physical location of approved applications for major development projects, Major Development Summary Sheets (permit att. D), and mitigation plans?</p>	<p>Records associated with major development projects are filed at the Municipal Building.</p>



## SPPP Form 6 – Ordinances

All records must be available upon request by NJDEP.

Ordinance permit cite IV.B.1.b.iii	Date of Adoption	Website URL	Was the DEP model ordinance adopted without change?	Entity responsible for enforcement
1. Pet Waste permit cite IV.B.5.a.i	3/1/2006	<a href="http://locharbournj.us/Resources/Ordinance%20No.%20321%20Pet%20Waste.pdf">http://locharbournj.us/Resources/Ordinance%20No.%20321%20Pet%20Waste.pdf</a>	Yes	Police Department, Local Code and Zoning Official
2. Wildlife Feeding permit cite IV.B.5.a.ii	3/1/2006	<a href="http://locharbournj.us/Resources/Ordinance%20No.%20322%20Wildlife%20Feeding.pdf">http://locharbournj.us/Resources/Ordinance%20No.%20322%20Wildlife%20Feeding.pdf</a>	Yes	Police Department, Local Code and Zoning Official
3. Litter Control permit cite IV.B.5.a.iii	3/1/2006	<a href="http://locharbournj.us/Resources/Ordinance%20No.%20320%20Litter%20Control.pdf">http://locharbournj.us/Resources/Ordinance%20No.%20320%20Litter%20Control.pdf</a>	Yes	Police Department or Zoning Official
4. Improper Disposal of Waste permit cite IV.B.5.a.iv	3/1/2006	<a href="http://locharbournj.us/Resources/Ordinance%20No.%20319%20Improper%20Disposal%20of%20Waste.pdf">http://locharbournj.us/Resources/Ordinance%20No.%20319%20Improper%20Disposal%20of%20Waste.pdf</a>	Yes	Police Department, Zoning Official or Sewer System Operator
5. Containerized Yard Waste/ Yard Waste Collection Program permit cite IV.B.5.a.v	3/1/2006	<a href="http://locharbournj.us/Resources/Ordinance%20No.%20324%20-%20Yard%20Waste.pdf">http://locharbournj.us/Resources/Ordinance%20No.%20324%20-%20Yard%20Waste.pdf</a>	Yes	Police Department or Zoning Official
6. Private Storm Drain Inlet Retrofitting permit cite IV.B.5.a.vi				
7. Stormwater Control Ordinance permit cite IV.B.4.g and IV.B.5.a.vii	11/5/2008	<a href="http://locharbournj.us/locharbourordina.html">http://locharbournj.us/locharbourordina.html</a>	Yes	Code Enforcement Official or Village Engineer
8. Illicit Connection Ordinance permit cite IV.B.5.a.vii and IV.B.6.d	3/1/2006	<a href="http://locharbournj.us/Resources/Ordinance%20No.%20318%20Illicit%20Connection.pdf">http://locharbournj.us/Resources/Ordinance%20No.%20318%20Illicit%20Connection.pdf</a>	Yes	Police Department, Zoning Official or Sewer System Operator
9. Optional: Refuse Container/ Dumpster Ordinance permit cite IV.E.2	3/1/2006	<a href="http://locharbournj.us/locharbourordina.html">http://locharbournj.us/locharbourordina.html</a>	Yes	Code Enforcement Official or Police Department
Indicate the location of records associated with ordinances and related enforcement actions:				

Records associated with ordinances are located in the Municipal Clerk's office and records related to enforcement actions are located in the Code Official's office.

## SPPP Form 7 – Street Sweeping

All records must be available upon request by NJDEP.

1. Provide a written description or attach a map indicating which streets are swept as required by the NJPDES permit. Describe the sweeping schedule and indicate if any of the streets are swept by another entity through a shared service arrangement.

The Borough of Deal Public Works Department provides street sweeping to the Village of Loch Arbour as part of an Interlocal Services Agreement. Streets required to be swept by the NJPDES permit are swept monthly, April through October.

2. Provide a written description or attach a map indicating which streets are swept that are NOT required to be swept by the NJPDES permit. Describe the sweeping schedule and indicate if any of the streets are swept by another entity through a shared service arrangement.

The Borough of Deal Public Works Department provides street sweeping to the Village of Loch Arbour as part of an Interlocal Services Agreement. Streets not required to be swept by the NJPDES permit are swept a minimum of once per year.

3. Does the municipality provide street sweeping services for other municipalities? If so, please describe the arrangements.

No, Loch Arbour Village does not provide street sweeping services to other municipalities.

4. Indicate the location of records, including sweeping dates, areas swept, number of miles swept and total amount of wet tons collected each month. Note which records correspond to sweeping activities beyond what is required by the NJPDES permit, i.e., sweepings of streets within the municipality that are not required by permit to be swept or sweepings of streets outside of the municipality.

The Borough of Deal provides street sweeping to the Village of Loch Arbour as part of an Interlocal Services Agreement. Records associated with street sweeping are maintained by the Borough of Deal Public Works Department.

## SPPP Form 8 – Catch Basins and Storm Drain Inlets

All records must be available upon request by NJDEP.

1.	Describe the schedule for catch basin and storm drain inlet inspection, cleaning, and maintenance.
	Catch basins and storm drain inlets are inspected once per year as part of the street sweeping program that is conducted by the Borough of Deal Public Works Department.
2.	List the locations of catch basins and storm drain inlets with recurring problems, i.e., flooding, accumulated debris, etc.
	None
3.	Describe what measures are taken to address issues for catch basins and storm drain inlets with recurring problems and how they are prioritized.
	Not applicable.
4.	Describe the inspection schedule and maintenance plan for storm drain inlet labels on storm drains that do not have permanent wording cast into the design.
	Storm drain inlets are inspected at the time of catch basin inspection. Non-permanent storm drain inlet labels found to be missing or damaged are scheduled for repair or replacement.
5.	Indicate the location of records of catch basin and storm drain inlet inspections and the wet tons of materials collected during catch basin and storm drain inlet cleanings.
	Records associated with the inspection and cleaning of catch basins and storm drain inlets are on file at the Borough of Deal Public Works Department office.

## SPPP Form 9 – Storm Drain Inlet Retrofitting

All records must be available upon request by NJDEP.

1. Describe the procedure for ensuring that municipally owned storm drain inlets are retrofitted.
As part of the Annual Road Program storm drain inlets are retrofitted if needed when the road is resurfaced.
2. Describe the inspection process to verify that appropriate retrofits are completed on municipally owned storm drain inlets.
An inspector from the Village Engineer's office verifies that the appropriate storm drain inlet was installed during the resurfacing.
3. Describe the procedure for ensuring that privately owned storm drain inlets are retrofitted.
Not applicable. There are no privately owned storm drains in Loch Arbour.
4. Describe the inspection process to verify that appropriate retrofits are completed on privately owned storm drain inlets.
Not applicable.

## SPPP Form 10 – Municipal Maintenance Yards and Other Ancillary Operations

All records must be available upon request by NJDEP.

*Complete separate forms for each municipal yard or ancillary operation location.*

Address of municipal yard or ancillary operation:

The Village of Loch Arbour does not have a Public Works yard.

List all materials and machinery located at this location that are exposed to stormwater which could be a source of pollutant in a stormwater discharge:

Raw materials – Not applicable

Intermediate products – Not applicable

Final products – Not applicable

Waste materials – Not applicable

By-products – Not applicable

Machinery – Not applicable

Fuel – Not applicable

Lubricants – Not applicable

Solvents – Not applicable

Detergents related to municipal maintenance yard or ancillary operations – Not applicable

Other – Not applicable

For each category below, describe the best management practices in place to ensure compliance with all requirements in permit Attachment E. If the activity in the category is not applicable for this location, indicate where it occurs.

Indicate the location of inspection logs and tracking forms associated with this municipal yard or ancillary operation, including documentation of conditions requiring attention and remedial actions that have been taken or have been planned.

1. Fueling Operations

Not applicable. Loch Arbour Village does not have a municipal fueling station.

2. Vehicle Maintenance

Not applicable.

3. On-Site Equipment and Vehicle Washing

*See permit attachment E for certification and log forms for Underground Storage Tanks.*

Not applicable.

4. Discharge of Stormwater from Secondary Containment

Not applicable.

5. Salt and De-Icing Material Storage and Handling
Not applicable. The Village of Loch Arbour does not have a Public Works yard.
6. Aggregate Material and Construction Debris Storage
Not applicable. The Village of Loch Arbour does not have a Public Works yard.
7. Street Sweepings, Catch Basin Clean Out and Other Material Storage
Not applicable. The Borough of Deal Public Works Department provides street sweeping and catch basin cleaning services to the Village of Loch Arbour through an Interlocal Services Agreement.
8. Yard Trimmings and Wood Waste Management Sites
Not applicable.
9. Roadside Vegetation Management
Not applicable. The Village of Loch Arbour does not spray along roadsides for weed control.



## SPPP Form 11 – Employee Training

All records must be available upon request by NJDEP.

**A. Municipal Employee Training:** Stormwater Program Coordinator (SPC) must ensure appropriate staff receive training on topics in the chart below as required due to job duties assigned within three months of commencement of duties and again on the frequency below. Indicate the location of associated training sign in sheets, dates, and agendas or description for each topic.

Topic	Frequency	Title of trainer or office to conduct training
1. Maintenance Yard Operations (including Ancillary Operations)	Every year	Not applicable
2. Stormwater Facility Maintenance	Every year	Not applicable
3. SPPP Training & Recordkeeping	Every year	Not applicable
4. Yard Waste Collection Program	Every 2 years	Not applicable
5. Street Sweeping	Every 2 years	Not applicable
6. Illicit Connection Elimination and Outfall Pipe Mapping	Every 2 years	Not applicable
7. Outfall Pipe Stream Scouring Detection and Control	Every 2 years	Not applicable
8. Waste Disposal Education	Every 2 years	Not applicable
9. Municipal Ordinances	Every 2 years	Not applicable
10. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment	Every 2 years	Not applicable

**B. Municipal Board and Governing Body Members Training:** Required for individuals who review and approve applications for development and redevelopment projects in the municipality. This includes members of the planning and zoning boards, town council, and anyone else who votes on such projects. Training is in the form of online videos, posted at [www.nj.gov/dep/stormwater/training.htm](http://www.nj.gov/dep/stormwater/training.htm).

Within 6 months of commencing duties, watch *Asking the Right Questions in Stormwater Review Training Tool*. Once per term thereafter, watch at least one of the online DEP videos in the series available under Post-Construction Stormwater Management. Indicate the location of records documenting the names, video titles, and dates completed for each board and governing body member.

The training of elected and appointed individuals who review and approve applications for development and redevelopment projects in the Village is ongoing.

**C. Stormwater Management Design Reviewer Training:** All design engineers, municipal engineers, and others who review the stormwater management design for development and redevelopment projects on behalf of the municipality must attend the first available class upon assignment as a reviewer and every five years thereafter. The course is a free, two-day training conducted by DEP staff. Training dates and locations are posted at [www.nj.gov/dep/stormwater/training.htm](http://www.nj.gov/dep/stormwater/training.htm). Indicate the location of the DEP certificate of completion for each reviewer.

The Village Engineer has completed the required training and maintains the NJDEP certification of completion at his office.

## SPPP Form 12 – Outfall Pipes

All records must be available upon request by NJDEP.

1. **Mapping:** Attach an image or provide a link to the most current outfall pipe map. Maps shall be updated at the end of each calendar year.

The Loch Arbour Village Stormwater Outfall map is posted on the Borough website at:

<http://locharbournj.us/Loch%20Arbour%20Stormwater%20Infrastructure.pdf>

*Note that ALL maps must be electronic by 21 Dec 2020 via the DEP's designated electronic submission service. For details, see [http://www.nj.gov/dep/dwq/msrp\\_map\\_aid.htm](http://www.nj.gov/dep/dwq/msrp_map_aid.htm).*

2. **Inspections:** Describe the outfall pipe inspection schedule and indicate the location of records of dates, locations, and findings.

Each municipal outfall is inspected at least once every 5 years. During the inspection process the outfall is evaluated for illicit discharges and stream scouring. Records associated with the inspection of outfalls are maintained at the Village Engineer's office.

3. **Stream Scouring:** Describe the program in place to detect, investigate and control localized stream scouring from stormwater outfall pipes. Indicate the location of records related to cases of localized stream scouring. Such records must include the contributing source(s) of stormwater, recommended corrective action, and a prioritized list and schedule to remediate scouring cases.

Stormwater outfalls are evaluated for scouring during the inspection process. Outfalls with scouring are prioritized for repair or restoration within the constraints of the existing budget and certified annually.

4. **Illicit Discharges:** Describe the program in place for conducting visual dry weather inspections of municipally owned or operated outfall pipes. Record cases of illicit discharges using the DEP's Illicit Connection Inspection Report Form ([www.nj.gov/dep/dwq/tier\\_a\\_forms.htm](http://www.nj.gov/dep/dwq/tier_a_forms.htm)) and indicate the location of these forms and related illicit discharge records.

*Note that Illicit Connection Inspection Report Forms shall be included in the SPPP and submitted to DEP with the annual report.*

Outfalls are inspected for evidence of a dry weather flow. If a dry weather flow is observed additional physical information is collected and an investigation is conducted. An Illicit Connection Inspection Report Form is completed to assist with the determination of the source of the dry weather flow.

## SPPP Form 13 – Stormwater Facilities Maintenance

All records must be available upon request by NJDEP.

1. Detail the program in place for the long-term cleaning, operation and maintenance of each stormwater facility owned or operated by the municipality.

There are no existing stormwater facilities located within the Village of Loch Arbour,

2. Detail the program in place for ensuring the long-term cleaning, operation and maintenance of each stormwater facility NOT owned or operated by the municipality.

Not applicable

3. Indicate the location(s) of the Stormwater Facilities Inspection and Maintenance Logs listing the type of stormwater facilities inspected, location information, inspection dates, inspector name(s), findings, preventative and corrective maintenance performed.

Not applicable

Note that maintenance activities must be reported in the annual report and records must be available upon request. DEP maintenance log templates are available at [http://www.nj.gov/dep/stormwater/maintenance\\_guidance.htm](http://www.nj.gov/dep/stormwater/maintenance_guidance.htm) (select specific logs from choices listed in the Field Manuals section).

*Additional Resources: The NJ Hydrologic Modeling Database contains information and maps of stormwater management basins. To view the database map, see <https://hydro.rutgers.edu>. To download data in an Excel format, see [https://hydro.rutgers.edu/public\\_data/](https://hydro.rutgers.edu/public_data/).*

## SPPP Form 14 – Total Maximum Daily Load Information

All records must be available upon request by NJDEP.

1. Using the Total Maximum Daily Load (TMDL) reports provided on [www.nj.gov/dep/dwq/msrp-tmdl-rh.htm](http://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm), list adopted TMDLs for the municipality, parameters addressed, and the affected water bodies that impact the municipality's MS4 program.

As of July 2019 the following TMDLs were identified for Loch Arbour Village:

### **Applicable Stream TMDL(s)**

Total Maximum Daily Load for Mercury Impairments Based on Concentration in Fish Tissue Caused Mainly by Air Deposition to Address 122 HUC 14s Statewide. Mercury - 2010: Deal Lake.

### **Applicable Lake TMDL(s)**

Total Maximum Daily Loads for Pathogens to Address 18 Lakes in the Atlantic Coastal Water Region. Fecal Coliform - 2007: Deal Lake.

Total Maximum Daily Loads for Phosphorus to Address Nine Eutrophic Lakes in the Atlantic Coastal Water Region. Total Phosphorus - 2003: Deal Lake.

### **Applicable Shellfish TMDL(s)**

None

2. Describe how the permittee uses TMDL information to prioritize stormwater facilities maintenance projects and to address specific sources of stormwater pollutants.

The applicable TMDLs have been reviewed and control measures to reduce bacteria loadings to Deal Lake have been implemented by Loch Arbour Village. These include measures to eliminate "illicit connections", adopt and enforce a pet waste ordinance, prohibit the feeding of wildlife, clean catch basins, perform good housekeeping practices, and provide related public education and employee training.

Loch Arbour is a charter member of the Deal Lake Commission and is committed to the Commission's goal of improving water quality in Deal Lake and its tributaries. To reduce the influx of phosphorus and bacteria to the lake the Village has focused on better stormwater management planning and design and on replacing or retrofitting existing stormwater management infrastructure.

## SPPP Form 15 – Optional Measures

All records must be available upon request by NJDEP.

1. Describe any Best Management Practice(s) the permittee has developed that extend beyond the requirements of the Tier A MS4 NJPDES permit that prevents or reduces water pollution.

None at this time.

2. Has the permittee adopted a Refuse Container/Dumpster Ordinance?

Yes, Ordinance #363 was adopted on October 6, 2010.