

Stormwater Pollution Prevention Plan

Municipality: WEST CALDWELL TOWNSHIP

County: ESSEX COUNTY

Permit Number NJG 0151815

Annual Review Date: Stormwater DECEMBER 29, 2023

Program Coordinator: Michael Tempesta

Table of Contents

Form 1 – Team Members	3
Form 2 – Revision History	4
Form 3 – Public Announcements.....	5
Form 4 – Post-Construction Stormwater Management in New Development and Redevelopment ...	6
Form 5 – Ordinances	8
Form 6 – Street Sweeping.....	9
Form 7 – MS4 Infrastructure	10
Form 8 – Community-wide Measures	14
Form 9 – Municipal Maintenance Yards & Other Ancillary Operations	15
Form 10 – Training.....	19
Form 11 – MS4 Mapping	22
Form 12 – Watershed Improvement Plan	23

Form 1 – Team Members

Stormwater Program Coordinator (SPC)			
Name and Title		Michael Tempesta, Director of Public Works	
Phone	973-885-6312	Email	mtempesta@westcaldwell.com
Individual(s) Responsible for Major Development Project Stormwater Management Review			
Name and Title		Jeffrey R. Betz, PE, Township Engineer	
Phone	518-331-8209	Email	jeffrey.betz@collierseng.com
Name and Title		Nevien Valenzuela	
Phone	732 704 5923	Email	nevien.valenzuela@collierseng.com
Other Municipal Stormwater Team Members			
Name and Title		Joann DeBlasis, Municipal Clerk	
Phone	973-226-2300	Email	jdeblasis@westcaldwell.com
Name and Title		William Wallace, Health Officer	
Phone	973-226-2303	Email	health@westcaldwell.com
Name and Title			
Phone		Email	
Shared/Contracted Service Providers			
Provider Name	Service Provided	Term of Service	

Form 3 – Public Announcements
Part IV.B. and C.

1. Provide the link to the dedicated stormwater webpage for your municipality.
https://www.westcaldwell.com/_Content/pdf/2022-Tier-A-SPPP-12-30-2022.pdf
2. List the name and title of person(s) responsible for stormwater webpage postings/updates.
Nikole Baltycki, Township Administrator & CFO
3. List the newspapers, social media outlets, websites, direct mailings (Email or postal), and other communication approaches typically used to inform/educate the public on stormwater program information and related events/activities.
<p>The Township of West Caldwell's annual distribution includes the N.J.D.E.P. Brochure for Solutions to Stormwater Pollution. Additionally, extra copies are available at the Township Library and at Town Hall.</p> <p>Usually, during the annual Family Health Day, the brochure is available as well as other educational materials and personnel to address resident's questions.</p> <p>In addition, the high school environmental club, local watershed group and other environmental groups are invited to set up booths during the event.</p> <p>Furthermore, as posted on the Township of West Caldwell's website; Solutions to Stormwater Pollution (https://www.westcaldwell.com/_Content/pdf/Stormwater-Pollution-Solutions.pdf):</p> <ol style="list-style-type: none">1.) Limit fertilizer use.2.) Properly dispose of hazardous products.3.) Keep pollution out of storm drains.4.) Clean up after your pet.5.) Don't feed wildlife.6.) Don't litter.7.) Please help in keeping our rivers and streams fresh and clear.

Form 4 – Post-Construction Stormwater Management in New Development and Redevelopment

Part IV.E.

1. How does the municipality define “major development”? If it is different from the definition in N.J.A.C. 7:8, explain the difference.

Ordinance No. 1834 Section 21A-2 “Major development” means an individual “development,” as well as multiple developments that individually or collectively result in the disturbance of one or more acres of land since February 2, 2004.
Major development includes all developments that are part of a common plan of development or sale (for example, phased residential development) that collectively or individually result in the disturbance of one or more acres of land since February 2, 2004. Projects undertaken by any government agency that 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. Is the municipality’s stormwater control ordinance (SCO) the same as or more stringent than NJDEP’s model SCO? If more stringent, explain the difference.

The Municipalities stormwater control ordinance is based on and as stringent as the NJDEP's model SCO.

3. Describe the process for reviewing major development project applications for compliance with the SCO and Residential Site Improvement Standards (RSIS).

The process for reviewing major development project applications for compliance is as follows:

1. Application and checklist is completed and submitted with supporting documents by the Applicant.

2. Technical review is performed by the Township Engineer. Review perimeters include:

1. Municipal stormwater ordinances;
2. State regulations including N.J.A.C. 7:8 and BMP Manual; and
3. Approval from outside agencies are required.

3. Engineering review is submitted to the applicable Township Board (Planning or Zoning).

<p>4. Does your municipality have a mitigation plan included in your Municipal Stormwater Management Plan and Stormwater Control Ordinance? Indicate the location of records of all variances granted.</p>
<p>Yes. Any and all variance can be found at the Township of West Caldwell Municipal Building located at:</p> <p>30 Clinton Rd West Caldwell, NJ, 07006</p>
<p>5. Indicate the dates of each iteration of the township's Stormwater Control Ordinance, starting with the initial adoption and including revisions.</p>
<p>Adopted as per Ordinance No. 1798. Last revised 2017.</p>
<p>6. Indicate the dates of each iteration of the township's Municipal Stormwater Management Plan, starting with the initial adoption and including revisions.</p>
<p>Initial adoption March 2005.</p>

Form 5 – Ordinances
Part IV.F.1.

Ordinance	Date Adopted	Was the DEP model adopted without change? If not, explain how the municipality's is more stringent.	Entity Responsible for Enforcement	Fees & Fines
1. Pet Waste	04/04/06	Yes	WC Police Department & WC Board of Health	\$ <u>100</u>
2. Wildlife Feeding	04/04/06	Yes	WC Police Department & WC Board of Health	\$ <u>100</u>
3. Litter Control	04/04/06	Yes	WC Police Department	\$ <u>100</u>
4. Improper Disposal of Waste	04/04/06	Yes	WC Police Department & WC Board of Health	\$ <u>250</u> Per day for each and every day violation remains unabated
5. Yard Waste	03/06/93	Yes	WC Board of Health or appointed officer & Township Engineer	\$ <u>250</u> Per day for each and every day violation remains unabated
6. Private Storm Drain Inlet Retrofitting	03/16/21	Yes	Township Engineer and his designee, DPW & WC Police Department	\$ <u>250</u> \$500 per violation for subsequent violations
7. Illicit Connections	NO Date for Ordinance 1571	Yes (18-6.2)	West Caldwell Board of Health or Township Engineer	\$ _____ 100 Minimum
8. Privately-Owned Salt Storage		No Ordinance has been approved to date.		\$ _____
9. Tree Removal- Replacement		No Ordinance has been approved to date.		\$ _____
List any additional stormwater-related ordinances the municipality has adopted that address issues beyond the scope of the MS4 permit. Include adoption date, entity responsible for enforcement, and related fees and fines.				
Indicate the location of records associated with ordinances and related violations and enforcement actions below.				
https://www.ecode360.com/WE0897				

Form 6 – Street Sweeping

Part IV.F.2.a.i. and ii.

1. Provide a written description and/or attach a map outlining the sweeping schedule for the following:

- Segments of municipal roads with storm drain inlets that discharge to surface water (required at least 3 times each year)
- Segments of municipal roads that do not have storm drain inlets but do discharge to surface water (required at least 1 time each year)

Note: Only asphalt and concrete roads need to be swept. Roads that do not have storm drain inlets and do not discharge to surface water do not need to be swept.

All municipal streets, 6 times per year regardless of their condition and if they have storm drain inlets or not.

2. Indicate if sweeping work is outsourced and if so, describe the arrangement.

Sweeping is completed by the municipality

Form 7 – MS4 Infrastructure

Part IV.F.2-4. and Part IV.G.2-3.

1. Municipal Storm Drain Inlets

- a. Describe how you ensure that municipal inlets without permanent wording cast into the design have been properly labelled.
- b. Describe how you ensure that municipal and private storm drain inlets have been retrofitted.
- c. Describe how you ensure that newly installed storm drain inlets include corresponding catch basins or other BMPs to collect solids.
- d. Describe when and how you conduct inspections of storm drain inlets and the criteria used to determine when they need to be cleaned.

Visual inspections are done with sweeping and when capital project are completed. Grates are removed when necessary and material removed. Furthermore, a full inspection is to be completed annually, within the month of February, of every storm drain inlet.

2. Municipal Catch Basins

- a. Describe when and how you conduct inspections of catch basins.
- b. Describe the criteria used to determine when catch basins need to be cleaned.

Visual inspections are done with sweeping and when capital project are completed. Grates are removed when necessary and material removed. Furthermore, a full inspection is to be completed annually, within the month of February, of every catch basin.

3. Municipal Conveyance System

Describe when and how inspections of MS4 conveyance systems are conducted, and the criteria used to determine when they need to be cleaned. Include a description of the equipment and techniques used.

Existing infrastructure is inspected as needed with capital projects. Video inspections of existing storm sewers are performed if needed.

4. Municipal Outfall Inspections – Stream Scouring

Describe the program in place to detect, investigate, and control localized stream scouring from stormwater outfalls. Include a description of the equipment and techniques used.

The Township of West Caldwell is in the process of mapping all municipal outfalls and piping. During ongoing outfall mapping, basins and outfalls are being inspected to defect or scouring. Areas are marked and addressed as needed and further evaluation will be preformed pending completion of current mapping.

5. Municipal Outfall Inspections – Illicit Discharge Detection and Elimination

Describe the program in place for conducting visual dry weather inspections of municipally owned or operated outfalls. Include a description of the equipment and techniques used. Record cases of illicit discharges using the DEP’s Illicit Connection Inspection Report Form from the Department’s main stormwater webpage.

The Township of West Caldwell is in the process of mapping all municipal outfalls and piping. Existing mapping is being utilized and verified in the field by visual inspection and confirmation of contributing piping. Additionally, recent development applications are being reviewed to ensure new structures and systems are included in the mapping and updated as needed.

6. Other Municipal Infrastructure

List the types of MS4 infrastructure in your town that require inspection but are not noted above in items 1-5. Describe when and how you conduct inspections of this infrastructure and the criteria used to determine when they need to be maintained and/or cleaned.

No additional infrastructure exists to the of knowledge of the Consulting Engineer, CED, As this firm prepares the MS4 mapping for West Caldwell if this changes these components operation and maintenance will be included and updated.

7. Stormwater Facilities Not Owned or Operated by the Municipality

Describe your program for ensuring adequate long-term cleaning, operation, and maintenance of stormwater facilities not owned or operated by the municipality. This should include your plan for ensuring annual inspections are being done on these private properties and describe how you record the locations and logs associated with private infrastructure.

Inspection by the township engineer and with development applications.

8. Infrastructure Records

Indicate the location of records related to stormwater infrastructure inspection, cleaning, maintenance, and repair activities.

On file with DPW

Form 8 – Community-wide Measures

Part IV.F.2.

1. Herbicide Application Management Describe your program for preventing herbicides from being washed into the waters of the State and to prevent erosion caused by de-vegetation.
The Municipality does not use Herbicides in the municipality or for public
2. Excess Deicing Material Management Describe your program for ensuring that excess salt piles are removed in a timely manner after storm events.
Stormwater BMP controls are installed around the salt storage locations to minimize any incursion of the
3. Roadside Vegetative Waste Describe your program for ensuring proper pickup, handling, storage, and disposal of wood waste and yard trimmings generated by the permittee along municipal roads or on municipal properties (trimming trees, mowing, etc.).
The DPW handles and removes vegetation on an as needed basis which is then disposed of by a private disposal hauler on a regular basis.
4. Roadside Erosion Control Describe your program to detect and repair erosion along municipal roadways.
The DPW regularly inspects roadways and will provide labor and materials to repair erosion within their abilities. For larger Erosion projects outside contractors will be hired.

Form 9 – Municipal Maintenance Yards & Other Ancillary Operations
Part IV.F.5.

Please complete a separate Form 9 for each yard or site. Indicate the number of yards/sites the municipality owns or operates: 1

1. Site Name and Address

21 Clinton Rd, West Caldwell

2. Monthly Site Inspections

Describe the nature of inspections conducted at this site and the location of inspection logs.

Site is regularly walked every season to confirm status of all equipment and materials on site and when clean ups occur they are addressed and documented.

3. Inventory List

List all materials and machinery that are potentially exposed to stormwater.

Materials	Machinery/Equipment
Quarry Process material and stone	Backhoe
Above ground fuel tank (8,000 gas / 4,000 diesel)	Trucks
	Loaders
	SandProw

<p>4. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.</p>
<p>N/A</p>
<p>5. Fueling Operations Does fueling occur on site? If so, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If not, explain where fueling takes place.</p>
<p>The public works yard is the only fueling location operated by the Township and is inspected monthly.</p>
<p>6. Vehicle/Equipment Maintenance and Repair Do you perform maintenance and repair on site? Is this conducted indoors or outdoors? If outdoors, describe the BMPs in place to minimize contamination of stormwater from maintenance and repair activities.</p>
<p>Monthly inspections of vehicle are conducted to ensure good operation condition. Maintenance is addressed as needed.</p>
<p>7. Wash Wastewater Containment Do you wash vehicles on site? If so, describe the BMPs in place to minimize contamination of stormwater from these activities. Note that on site containment structures require annual inspections by a NJ licensed professional engineer. If not, explain where vehicle washing takes place.</p>
<p>No on-site equipment and vehicle washing is performed.</p>

8. Salt and Other Granular De-icing Materials

Do you store salt and other granular deicing materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

The Township of West Caldwell currently stores all de-icing materials within a permanent structure which is inspected annually and repairs made as necessary.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

All mason sand is stored under a roof and is not exposed to rainfall. All baseball field clay is stored within a three sided bin and complies with the 50 feet setback buffer.

10. Cold Patch Asphalt

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

No cold patch asphalt is stored onsite.

11. Street Sweepings and Storm Sewer Cleanout Materials

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

Private hauler removes cleanout and street sweeping material that are stockpiled in the dpw yard.

12. Construction and Demolition Waste, Wood Waste, and Yard Trimmings

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

Stored in dumpster and removed by private hauler.

13. Scrap Tires

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

Scrap tires are stored in garage beds that have concrete slabs temporary

14. Inoperable Vehicles and Equipment

Do you store inoperable vehicles or equipment on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater. If not, explain where they are stored.

All vehicles are stored in the asphalt dpw parking lot temporarily until they are towed s that have concrete slabs temporary

Form 10 – Training

Part IV.F.6-10.

Stormwater Program Coordinators	
Describe the training provided for the municipal Stormwater Program Coordinator.	

Topic	Municipal Employees Examples: in-person or virtual group sessions, e-Learning, field trainings, and videos
Describe the training provided for municipal staff.	
SPPP	DEP Online or in house with DPW Director every year.
Construction Site Stormwater Runoff	DEP Online or in house with DPW Director every two years.
Post-Construction Stormwater Management in New and Redevelopment	DEP Online or in house with DPW Director every two years.
Community-wide Ordinances	DEP Online or in house with DPW Director every two years.
Community-wide Measures	

Stormwater Facilities Maintenance	DEP Online or in house with DPW Director every year.
Municipal Maintenance Yards and Other Ancillary Operations	DEP Online or in house with DPW Director every year.
MS4 Mapping	
Outfall Stream Scouring	DEP Online or in house with DPW Director every two years.
Illicit Discharge Detection and Elimination	DEP Online or in house with DPW Director every two years.

Stormwater Management Design Reviewers
Describe the training provided for individuals responsible for reviews and approvals of stormwater management designs.
Colliers Engineering & Design participates in regular NJDEP trainings for stormwater.

Municipal Board and Governing Body Members

Describe the training provided for members of the planning/zoning board and municipal council.

All members of the land use boards and council members will watch the recorded online vide "Asking the Right Questions in Stormwater Review Training Tool" in addition to any additional training seminars or learning classes they wish to pursue on their own time.

Training Records

Indicate the location of training records for the above required training.

All records pertaining to stormwater training for would be kept with the Stormwater Coordinator.

Form 11 – MS4 Mapping

Part IV.G.1.

1. Provide a link to the most current MS4 outfall/infrastructure map.	
https://www.westcaldwell.com/Departments/public-works	
2. Indicate the total of each type of MS4 infrastructure listed below (due 01 Jan 2026).	
a. MS4 outfalls	
b. MS4 ground water discharge points (basins or overland flow infiltration areas)	
c. MS4 interconnections	
d. MS4 storm drain inlets	
e. MS4 manholes	
f. Length of conveyance (channels, pipes, ditches, etc.)	
g. MS4 pump stations	
h. MS4 stormwater facilities (any that are not listed above)	
i. Maintenance yard(s) and other ancillary operations	
3. Describe how the municipality’s outfall/infrastructure map is reviewed and updated to reflect any new or newly identified MS4 infrastructure (e.g., an outfall is closed, a new basin is constructed, ownership of an outfall has changed, etc.).	
Annual inspections of all outfalls and additional mapped appurtenances are completed by the municipality and consulting engineer.	
4. Describe how the municipality will create and update its MS4 Infrastructure Map.	
Annual inspections of all outfalls and additional mapped appurtenances are completed by the municipality and consulting engineer. Currently the map is under design and will be either a GIS map or AutoCAD map.	

Form 12 – Watershed Improvement Plan

Part IV.H.

1. Describe how your municipality is developing its Watershed Improvement Plan.
Colliers Engineering is working to develop the watershed improvement plan for West Caldwell.
2. Describe any regional projects or collaboration efforts with other municipalities.
3. Indicate the location of records related to all public information sessions and meetings for discussions of the Watershed Improvement Plan.
All records pertaining to the future watershed improvement plan would be kept with the Stormwater Coordinator