

## CITY OF DELAWARE CITY

407 Clinton Street - P.O. Box 4159 Delaware City, Delaware 19706 302-834-4573

April 18, 2018

Department of Special Services, NCC 187-A Old Churchmans Road New Castle, DE 19720

Attention: Ellie Mortazavi

Stormwater Program Coordinator

RE: Delaware City's Annual Report 2018 NPDES Permit DE 0051071

Dear Ms. Mortazavi:

Enclosed please find the Annual NPDES Permit DE 0051071 Report for the City of Delaware City. At the April 16, 2018 Mayor & Council meeting, the report was presented for Council's review and approved. Hopefully, this helps with your report.

If you need any further information regarding this matter, please contact me at 302-834-4573.

Sincerely

Carol S. Houck City Manager

Enclosures

## Delaware Department of Natural Resources and Environmental Control National Pollutant Discharge Elimination System MS 4 Report Form (Phase I and II)

## Information to be completed by permittees and other parties as identified in any existing memoranda of agreement as part of the most current permit MS4 Information City of Delaware City Name of MS4 Carol S. Houck City Manager Name of Contact Person (First) (Last) (Title) 302-834-4573 chouck@ci.delaware-city.de.us Telephone (including area code) 407 Clinton Street, P.O. Box 4159 Mailing Address Delaware City Delaware 19706 State ZIP Code What size population does your MS4 serve? 1600 What is the reporting period for this report? (mm/dd/yyyy) From April 1, 2017 to April 30, 2018 Federal NPDES Permit Number: DE 0051071 State NPDES Permit Number: WPCC 3063A/96 1. Public Education and Public Participation A. Is your public education program targeting specific pollutants and sources of those pollutants? X Yes \_\_\_No B. If yes, what are the specific sources and/or pollutants addressed by your public education program? Source was Del D.O.T. and New Castle County websites targeting: fertilizers, pesticides, herbicides, pet waste, vehicle fluids, yard waste, litter and debris, cigarette butts, and harmful household chemicals. Articles are placed in our bi-monthly newsletter, The City News. (Impressions of approximately 850 per newsletter) C. Note specific successful outcome(s) (e.g., quantified reduction in fertilizer use; NOT tasks, events, publications) fully or partially attributed to your public education program during this reporting period. No way of measuring D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program? Yes X No 2. Illicit Discharge Detection and Elimination A. Identify the number of outfalls in your storm sewer system. 12 B. Do you have documented procedures, including frequency for screening outfalls? C. How many outfalls were screened for dry weather discharges during this reporting period? 2 D. How many outfalls have been screened for dry weather discharges at any time since you obtained MS4 permit coverage? 2 E. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type. 20% Annually, by KCI F. Do you have an ordinance or other regulatory mechanism that effectively prohibits illicit discharges? X Yes No G. Do you have an ordinance or other regulatory mechanism that provides authority for you to take enforcement action and/or recover costs for addressing illicit discharges? X Yes

H. During this reporting period, how many illicit discharges/illegal connections have you discovered? None

#### Small MS4 Annual Report Form (cont)

- I. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? N/A
- J. How often do municipal employees receive training on the illicit discharge program? Annually

## 3. Stormwater Management During Construction

enforcement actions of active construction sites in your jurisdiction?

A. Other than the state Sediment and Stormwater Regulations, do you have an ordinance or other regulatory mechanism stipulating:

on site stormwater rec	quirements		_X YesNo			
Other construction waste control requirements						
nt to submit construc	tion plans (storn	nwater quality/quantity) for rev	iew <u>X Yes</u> No			
ment			X Yes No			
			X Yes No			
257			D1 100 100			
construction plans			X Yes No			
inspections			X YesNo			
to violations			X Yes No			
sites identified above age, the frequency w Daily, but at least w verage, the frequence	e did you inspec ith which your p veekly	t during this reporting period program conducts construction	1 site inspections on each site.			
		Many Many	ossero - proces avour			
	sites for more fr	equent inspections?	Yes <u>X No</u>			
of the following ty	ypes of enforce	ment actions you used durin	g the reporting period for			
	#	No Authority				
	#					
p Work Orders	#	No Authority				
il penalties	#	No Authority				
		No Authority				
minal actions	#	No Authority				
	nt to submit construction nt to submit construction nt authority tten procedures for: construction plans g to violations ther of active construction the frequency werage, the frequency were certain construction what criteria?  The following types, N/A  Strice of violation Imministrative fines	oment  Int authority Itten procedures for: construction plans Inspections It inspections It is to violations It is identified above did you inspectage, the frequency with which your procedures, the frequency with which your procedures of the following types of enforced the procedures of the p	nt to submit construction plans (stormwater quality/quantity) for reviewed to submit construction plans (stormwater quality/quantity) for reviewed the nt authority sten procedures for:  construction plans  inspections  g to violations  there of active construction sites ≥ 1 acre in operation in your jurisdictive sites identified above did you inspect during this reporting period. It is it is identified above did you inspect during this reporting period. It is it is identified above with which your program conducts construction is in the process of the frequency with which Certified Construction Reviewer age, the frequency with which Certified Construction Reviewer acceptance construction sites for more frequent inspections?  what criteria?  of the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used during the following types of enforcement actions you used the following type			

X Yes No

J. What are the 3 mostN/A	common types of vi	olations documen	ted during th	nis reporting pe	riod?
K. What are your criteria for d	etermining which new/re.	development storm	water plans vo		
projects, projects disturbing grea	ter than one acre etc.) Pro	riects disturbing ar	water plans yo	ou will review (e.g	ş., all
L. Do you require water qual	ity or quantity design str	indards or perform	ance standards	oither directly	1
reference to a state or other stand	ard, be met for new development	nment and re-devel	lonment? V	Voc No	or by
M. Do these performances or de	sign standards require that	pre-development by	vdrology be me	et for:	
Flow volumes	Review Needed	pro development ii	ydrology oc me	Yes	No
Peak discharge rates	Review Needed			Yes	No
Discharge frequency	Review Needed			Yes	No
Flow duration	Review Needed			Yes	No
N. How many development and		e reviewed during t	he reporting pe	riod to assess imp	nante
to water quality and receiving stre	am protection? DNRI	CC is handling the	Ft. DuPont Sul	hdivision Site	acis
O. How many of the plans identify	fied were approved? In I	Process of Reviewin	g Subdivision	1 Plan	
P. How often do municipal e	employees receive training	g on the construc	tion program?	Staff attends r	nost
workshops or websites that are	offered New Castle Coun	tv, Del DOT, and	Chesaneake St	ormwater Netwo	rk
				orani, acci i i cento	1 14
<ul> <li>4. Post Construction Stormwate</li> <li>A. Other than the Delaware Sedimechanism for long-term operation</li> <li>B. Have you completed a GIS lay</li> <li>C. Have you completed a GIS lay storm sewer system? Will with the construction</li> <li>D. How many privately owned performing period? 0</li> <li>F. What percentage of the practice</li> <li>G. How long do you give open inspections? 15 days of the decise</li> <li>H. Do you have authority to tal practices/facilities?</li> <li>5. Good Housekeeping</li> </ul>	iment and Stormwater Re- imand maintenance of stori- ier of all outfalls and receiv- ier of all storm drain pipes ork with KCI to do commanent stormwater practi- coermanent stormwater ma es/facilities identified in we rators to remedy any ope- sion of the Mayor & Coun- ke enforcement action for	mwater management ving waters of your and other conveyant ices/facilities exist water magement practices/ ere found to have in tration and mainter ancil upholding the	t controls? storm sewer sy ces in theY vithin your juris /facilities were adequate maint nance deficienc decision of the y operate and	X Yes  stem? Yes X  Yes X No sdiction? 7 inspected during tenance? 0 sies identified dur City Manager maintain stormwa	No No the
트리아 (1987년 - ) - (1987년 1987년 - 1987년 - 1987년 - 1987	• 14 • 1 • 1 · 14 · 14 · 14 · 14 · 14 ·				
A. Please list facility types in w	hich stormwater pollution	prevention plans	(or an equival	ent plan) have b	een
developed: Under Development	or The Cutting Edge –	our Public Works	Yard our Su	b Contractor Re	nts
from us					
<ul><li>B. Are stormwater inspections con</li><li>C. If Yes, at what frequency are in</li><li>D. List activities for which operation</li></ul>	spections conducted? An	nually	X Yes		ave
been developed (e.g., road repairs,	catch basin cleaning). I	he City maintains	approximatel	y eight (8) miles	of
streets. A contractor for the Cit	y performs and records	when routine mai	ntenance of e	xisting catch basi	ins
and road repairs take place. Ty	pical activities include	regular visual insr	ection and de	hris removal fea	<b>3</b> m 3

catch basins once a month. DelDOT has maintenance responsibility for SR 9 and Cox Neck Road within the city limits. The streets are cleaned by mechanical sweeper twice a year. In addition, sidewalks and gutters are cleaned from October 15th until the 1st of the year by portable vacuum machine by our contractor on a weekly bases or by store owners. The City's contractor has been keeping a log to document these inspections and maintenance activities. To minimize litter along roadways, trashcans and recycling receptacles are used downtown and in our parks and are regularly emptied by the City. The City also monitors shoulders of roads for litter. Mutt Mitts are provided to the public for dog waste at our parks. We also have snow and ice maintenance logs tracking the salt and calcium used per snow event. Our Contractor only uses Round-Up. E. Do you prioritize certain municipal activities and/or facilities for more frequent inspection? Yes X No F. If Yes, which activities and/or facilities receive most frequent inspections? G. Do all municipal employees and contractors overseeing planning and implementation of stormwater-related activities receive comprehensive training on stromwater management? NCCD X Yes No H. If Yes, do you also provide regular updates and refreshers? Yes No I. If so, how frequently and/or under what circumstances? New Castle Conservation District handles Certification Statement and Signature I certify that all information provided in this report is, to the best of my knowledge and belief, true, accurate and complete. X Yes No Federal regulations require this application to be signed as follows: For a municipal, State, Federal, or other public facility: by either a principal executive or ranking elected official.

Carol S. Houck, City Manager

04/17/18

Date (min/dd/yy)



# CITY OF DELAWARE CITY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM

# ILLICIT DISCHARGE DETECTION & ELIMINATION PROGRAM 2017 ANNUAL REPORT

## **Prepared For**

CITY OF DELAWARE CITY



## **Prepared By**

KCI TECHNOLOGIES, INC. Delaware Water Resources Practice KCI Project No. 171603872

FEBRUARY 2018



# CITY OF DELAWARE CITY ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM



## **2017 ANNUAL REPORT**

## **TABLE OF CONTENTS**

Section	<u>P</u> :	age
1.	DRY WEATHER OUTFALL FIELD SCREENING	1
	Table 1 2017 Dry Weather Outfall Field Screening – Investigation Results	1
	Figure 1 2017 Dry Weather Outfall Field Screening – Outfall Locations	2
	Figure 2 Flow Source Determination: Residential or Light Commercial Flowchart	3
APPEN	DIX A 2017 OUTFALLS WITH NO FLOW	

#### Structure Numbers:

- 0110310245
- 0110310247



#### CITY OF DELAWARE CITY



#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM

State Permit No. WPCC 3063A/96 NPDES Permit No. DE 0051071

## ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM 2017 ANNUAL REPORT

As part of the City of Delaware City's National Pollutant Discharge Elimination System (NPDES) Permit requirements, KCI Technologies, Inc. (KCI) was contracted to conduct work in support of the City's Illicit Discharge Detection and Elimination (IDDE) Program.

KCI's responsibilities included performing dry weather outfall field screening of the City-owned Municipal Separate Storm Sewer System (MS4) to identify potential illicit discharges (PIDs), and providing on-call investigations of reports of PID investigations.

The City of Delaware City is a Co-permittee on a Phase I MS4 Permit. The permit requires that 20 percent of the City's MS4 be evaluated annually for illicit discharges. KCI field-screened two outfalls to meet the Phase I MS4 Permit requirement in 2017. The results of these field investigations are described below.

#### 1. DRY WEATHER OUTFALL FIELD SCREENING

Dry weather outfall field screening helps to identify potential illicit discharges. If a discharge is determined to be illicit, KCI staff will track the source of the discharge. All outfall field screening is performed by a two-person field team, allowing for the safe and efficient completion of the work. Detailed information regarding outfall field screening protocol and procedures is located in the Phase I MS4 Permit IDDE Program Standard Operating Procedures.

During 2017, KCI visited two outfalls as listed in **Table 1** and depicted on **Figure 1**. Neither of the two outfalls had dry weather flow, or other signs of illicit discharge. **Figure 2** outlines the field screening process that determines whether an outfall has evidence of illicit discharge.

Appendix A contains the field data sheets for the two outfalls visited in 2017.

TABLE 1
2017 DRY WEATHER OUTFALL FIELD SCREENING – INVESTIGATION RESULTS

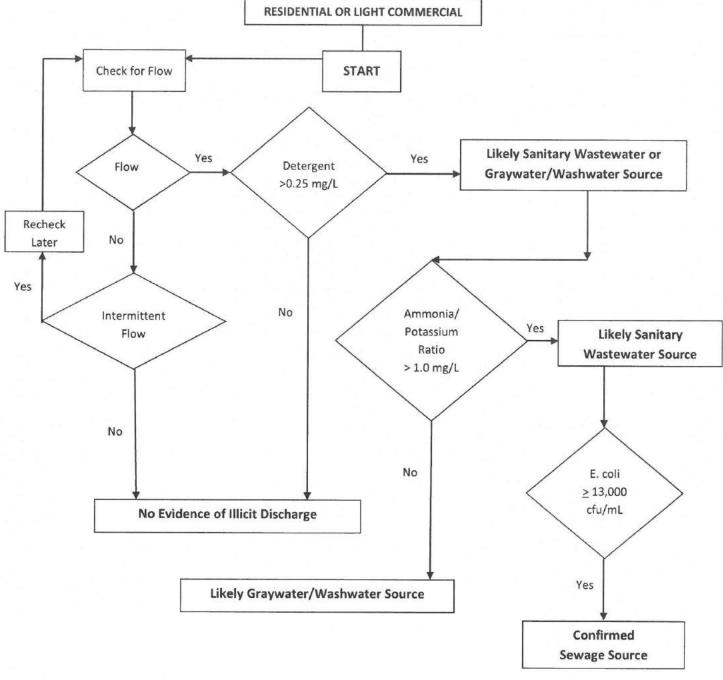
Incident ID No. Structure No.		Investigation Results
N/A	0110310245	No flow observed; No evidence of illicit discharge.
N/A	0110310247	No flow observed; No evidence of illicit discharge.

0110310247 0110310245

FIGURE 1
2017 DRY WEATHER OUTFALL FIELD SCREENING – OUTFALL LOCATIONS

FIGURE 2
FLOW SOURCE DETERMINATION: RESIDENTIAL OR LIGHT COMMERCIAL FLOWCHART

RESIDENTIAL OR LIGHT COMMERCIAL



Robert Pitt, et al., Source Verification of Inappropriate Discharges to Storm Drainage Systems, Water Environmental Federation Technical Exhibition and Conference, September 2004.







NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM
State Permit No. WPCC 3063A/96
NPDES Permit No. DE 0051071

## ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

## **2017 ANNUAL REPORT**

## **APPENDIX A**

## **NO FLOW**

## Structure Numbers:

- 0110310245
- 0110310247

## **ILLICIT DISCHARGE DETECTION & ELIMINATION FIELD SHEET**

Structure Number: 0110310245

Incident ID #: N/A

County: New Castle

Subdivision: N/A

Address/Location Canal Street

Development		111.02		
Personnel		MJ, JS		
Date		5/2/2017		
Time		4:28 PM		
Air Temperature (F)		72		
Photograph		Yes		
Date Last Rain		4/26/2017		
Outfall Dimensions (inches)		12		
Outfall Shape		Round		
Outfall Type		High Density Poly Ethylene		
Flow Observed		No		
Land Use		Residential		
Structural Condition		Normal		
Erosion (Outfall Area)		None		
Algae Growth		No		
Vegetative Condition (Outfa	Il Area)	Normal		
Flow Rate (cfs)				
Water Temperature (F)				
pH (units)				
Turbidity (ntu)				
	Field Tested:			
Surfactants (mg/L)	Lab Tested:	N/A		
	Follow Up Lab Tested:	N/A		
	Field Tested:			
Ammonia (mg/L)	Lab Tested:	N/A		
	Follow Up Lab Tested:	N/A		
Potassium (mg/L)	Lab Tested:	N/A		
rotassium (mg/L)	Follow Up Lab Tested:	N/A		
Odor		None		
Deposits/Stains		None		
Color				
Floatables				
Determination (From IDDE F	lowchart)	No Evidence of Illicit Discharge		

### **ILLICIT DISCHARGE DETECTION & ELIMINATION** FIELD SHEET

Structure Number: 0110310247

Incident ID #: N/A

County: New Castle

Subdivision: N/A

Address/Location Canal Street

Personnel		MJ, JS		
Date		5/2/2017		
Time		4:44 PM		
Air Temperature (F)		72		
Photograph		Yes		
Date Last Rain		4/26/2017		
Outfall Dimensions (inches)		X		
Outfall Shape				
Outfall Type				
Flow Observed		No		
Land Use		Residential		
Structural Condition		Normal		
Erosion (Outfall Area)		Moderate		
Algae Growth		No		
Vegetative Condition (Outfa	Il Area)	Normal		
Flow Rate (cfs)				
Water Temperature (F)				
pH (units)				
Turbidity (ntu)				
	Field Tested:			
Surfactants (mg/L)	Lab Tested:	N/A		
	Follow Up Lab Tested:	N/A		
	Field Tested:			
Ammonia (mg/L)	Lab Tested:	N/A		
	Follow Up Lab Tested:	N/A		
B-4 ( ( (1))	Lab Tested:	N/A		
Potassium (mg/L)	Follow Up Lab Tested:	N/A		
Odor		None		
Deposits/Stains		None		
Color				
Floatables				
<b>Determination (From IDDE F</b>	Flowchart)	No Evidence of Illicit Discharge		

Date Generated: 2/22/2018 8:54 AM

## **OUTFALL SCREENING**

DATE	<b>OUTFALLS SCREENED</b>	<b>EVIDENCE/NO EVIDENCE of IDDE</b>			
		No Evidence detected			
		W			

#### City of Delaware City

## Illicit Discharge Detection and Elimination

## **Standard Operating Procedures**

#### General

The identification of illicit discharges will occur in one of two manners: identification by the Principal Permittees' contractor or notification by residents or businesses within or immediately adjacent to the City of Delaware City. When illicit discharges are reported by a resident or a business, the City will provide the relevant information to the Principal Permittees' contractor for follow up action.

Upon identification or notification, the Principal Permittees' contractor will create a Memorandum to the City that includes information regarding how the discharge was reported (field evaluation, desktop targeted, miscellaneous report, or citizen / business notification) field screening observations and lab results. The memo will be updated with the dates, times, and details of every activity related to the illicit discharge until it is eliminated or removed. The Principal Permittees' contractor will maintain a record of all correspondence and field visits for each potential illicit discharge and tracking forms will be updated when any new information is received. Record(s) for each calendar year will be provided to the City of Delaware City no later than April 1 the following year. The City of Delaware City will maintain all records for a period of at least five (5) years.

The relationship between the City of Delaware City and the Principal Permittees' contractor is described in the Inter-jurisdictional agreement included as Appendix D1 in the Stormwater Pollution Prevention and Management Plan (SWPP & MP).

#### Elimination and Enforcement Actions

The Principal Permittees' contractor will follow the procedures identified in Appendix G in the Stormwater Pollution Prevention and Management Plan (SWPP & MP). The City of Delaware City will be copied on any correspondences with any resident or business located within the City limits.

If the responsible party does not eliminate the discharge or provide satisfactory explanation, or if it is later found that the written plan is not being followed, the Principal Permittees' contractor will notify the City. The City may provide follow-up communications with the responsible party at its discretion. If warranted, the City will file charges in Justice of the Peace (JP) Court for violating Chapter 31 of the City of Delaware City Code.

If needed, the City will contact DNREC's Office of Community Services' Environmental Crimes Unit. The ECU maintains a toll-free 24-hour complaint line at 800-662-8802). All of DNREC's Environmental officers are certified police officers with full police powers. The City will report discharges of major spills, fish kills, and immediate environmental hazards immediately to DNREC.

### Door Hanger Distribution

In residential neighborhoods where dumping of materials into the MS4 is suspected or reported, the Principal Permittees' contractor will distribute Stormwater Pollution Awareness Door Hangers (sample provided in Appendix G in the Stormwater Pollution Prevention and Management Plan (SWPP & MP) which will be modified for use in Delaware City). The following information will be presented on the door hangers:

- The type of illicit discharge that was found in the storm sewer system
- · The location of affected structure
- The potentially affected water body
- The importance of stormwater management
- Guidelines for reducing stormwater runoff pollution
- City of Delaware City contact information for illegal discharge information

## Chapter 31

### Storm Water Protection

Section 31-1	Purpose and Intent
Section 31-2	Definitions
Section 31-3	Applicability
Section 31-4	Responsibility for Administration
Section 31-5	Minimum Standards
Section 31-6	Discharge and Connection Prohibitions
Section 31-7	Suspension of MS4 Access
Section 31-8	Industrial or Construction Activity Discharges-Notice of Intent
Section 31-9	Monitoring of Discharges
Section 31-10	Use of Best Management Practices (BMPs) to Prevent, Control, and Reduce Storm Water Pollutants
Section 31-11	Watercourse Protection
Section 31-12	Notification of Spills
Section 31-13	Enforcement
Section 31-14	Appeal of Notice of Violation
Section 31-15	Enforcement Measures after Appeal
Section 31-16	Cost of Abatement of the Violation
Section 31-17	Injunctive Relief
Section 31-18	Compensatory Action
Section 31-19	Violations Deemed a Public Nuisance
Section 31-20	Remedies not Exclusive
Section 31-21	Adoption of Delaware Sediment and Stormwater Management Regulations
Section 31-22	Applicable Definitions
Section 31-23	Delegation and Variances
Section 31-24	Plans and Approvals
Section 31-25	Right of Entry and Certified Construction Reviewer Reports
Section 31-26	Maintenance Responsibility Obligations
Section 31-27	Violations and Withholding of Permit Approvals
Section 31-28	Liability
Section 31-29	Minimum Requirements
Section 31-30	Conflict

Section 31-31 Injunctive Relief

History: This Chapter was Ordinance 07-0409-01 (adopted July 16, 2007).

Sections 31-21through 31-31 was Ordinance 14-1215-02 adopted on 3-4-15

#### Section 31-1 Purpose and Intent

The purpose of this chapter is to provide for the health, safety, and general welfare of the citizens of the City of Delaware City through the regulation of non-stormwater discharges to the storm drainage system as required by federal and state law. This chapter establishes methods for controlling the introduction of pollutants into the municipal separate storm sewer system (MS4) in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of the chapter are:

- A. To regulate the contribution of pollutants to the municipal separate storm sewer system (MS4) by stormwater discharges by any user.
- B. To prohibit illicit connections and discharges to the municipal separate storm sewer system.
- C. To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this chapter.

#### Section 31-2 Definitions

As used in this chapter, the following terms shall have the meanings indicated:

AUTHORIZED ENFORCEMENT AGENCY-Employees or designees of the City of Delaware City, ("City") including, but not limited to the City Manager and Law Enforcement Officers of the City.

BEST MANAGEMENT PRACTICES (BMPs) - Schedules of activities, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices designed to limit exposure of activities to wet weather and to prevent or reduce the discharge of pollutants directly or indirectly to stormwater, receiving waters, or stormwater conveyance systems. BMPs also include treatment practices, operating procedures, and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

CITY - The City of Delaware City, Delaware, a municipal corporation located in New Castle County, Delaware, and any of its officers and employees or their designees.

CLEAN WATER ACT- The federal Water Pollution Control Act (33 U.S.C. § 1251 et seq.), and any subsequent amendments thereto.

CONSTRUCTION ACTIVITY- Activities subject to NPDES discharge permits, including but not limited to clearing, grubbing, grading, excavating, and demolition which result in a land disturbance equal to or greater than one (1) acre, including the disturbance of less than one acre of land that is part of a larger common plan of development or sale that will ultimately disturb more than one acre.

HAZARDOUS MATERIALS- Any material, including any substance, waste, or combination thereof, which, because of its quantity, concentration, or physical, chemical, or infectious characteristics, may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment.

ILLEGAL DISCHARGE- Any direct or indirect non-stormwater discharge to the storm drain system.

#### ILLICIT CONNECTIONS- Either of the following:

- a.) Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system, including but not limited to any conveyances which allow any non-stormwater discharge, including sewage, process wastewater, and wash water, to enter the storm drain system and any connections to the storm drain system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted, or approved by an authorized enforcement agency; or
- b.) Any drain or conveyance connected from a commercial or industrial land use to the storm drain system which has not been documented in plans, maps, or equivalent records and approved by an authorized enforcement agency.

INDUSTRIAL ACTIVITY- Activities subject to NPDES industrial stormwater discharge permits as defined in 40 CFR 122.26(b)(14) and in the State of Delaware Regulations Governing the Control of Water Pollution, Section 9.1.01.1.A

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) – A conveyance system, which is not intended to convey anything but stormwater and is owned by a municipal or public entity.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
STORMWATER DISCHARGE PERMIT- A permit issued by the State of Delaware that authorizes the discharge of pollutants to waters of the State, under prescribed conditions, pursuant to Section 6 of the Delaware Regulations Governing the Control of Water Pollution, whether the permit is applicable on an individual, group, or general area-wide basis.

NON-STORMWATER DISCHARGE- Any discharge to the storm drain system that is not composed entirely of stormwater.

PERSON- Any individual, association, organization, partnership, firm, corporation or other entity recognized by law and acting as either the owner or as the owner's agent.

POLLUTANT- Anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter, or other discarded or abandoned objects, ordinances, and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; and noxious or offensive matter of any kind.

PREMISES - Any building, lot, or parcel of land, or portion of land, whether improved or unimproved, including adjacent sidewalks and parking strips.

STORM DRAINAGE SYSTEM - Facilities owned by a government entity by which stormwater is collected and/or conveyed, including but not limited to any roads with drainage systems, municipal streets, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and human-made or altered drainage channels, ditches, swales, reservoirs, and other drainage structures.

STORMWATER - Any surface flow, runoff, and drainage consisting entirely of water from any form of natural precipitation, and resulting from such precipitation.

STORMWATER POLLUTION PREVENTION PLAN (SWPP) - A document which describes the best management practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to stormwater, stormwater conveyance systems, and/or receiving waters to the maximum extent practicable.

WASTEWATER- Any water or other liquid, other than stormwater, discharged from a facility.

WATERS OF THE STATE – All water, on the surface and under the ground, wholly or partially within, or bordering the State of Delaware or within its jurisdiction, as defined in the Delaware Regulations Governing the Control of Water Pollution, Section 9.1.01.0.

#### Section 31-3 Applicability

This chapter shall apply to all water entering the storm drain system generated on any developed and undeveloped lands unless explicitly exempted by the City.

#### Section 31-4 Responsibility for Administration

The City Manager shall administer, implement, and enforce the provisions of this chapter. Any powers granted or duties imposed upon the City as the authorized enforcement agency may be delegated in writing by the City Manager to persons or entities acting in the beneficial interest of or in the employ of the City.

### Section 31-5 Minimum Standards

The standards set forth herein and promulgated pursuant to this chapter are minimum standards; therefore, this chapter does not intend nor imply that compliance by any person will ensure that there will be no contamination, pollution, nor unauthorized discharge of pollutants.

#### Section 31-6 Discharge and Connection Prohibitions

- a.). Prohibition of illegal discharges.
- (1) No person shall throw, drain, or otherwise discharge, cause to be discharged, or allow others under its control to throw, drain, or otherwise discharge into the

- municipal storm drain system or water courses any pollutants, other than stormwater.
- (2) The commencement, conduct or continuance of any illegal discharge to the storm drain system is prohibited except as described as follows:
  - (a) The following discharges are exempt from the discharge prohibitions established by this chapter: water line flushing or other potable water sources, landscape irrigation or lawn watering, diverted stream flows, rising groundwater, groundwater infiltration to storm drains, uncontaminated pumped groundwater, foundation or footing drains (not including active groundwater dewatering systems), crawl space pumps, air conditioning condensation, springs, noncommercial washing of vehicles, natural riparian habitat or wetland flows, swimming pools (if de-chlorinated, typically less than one PPM chlorine), firefighting activities, and any other water source not containing pollutants.
  - (b) Discharges specified in writing by the City as being necessary to protect public health and safety.
  - (c) Dye testing is an allowable discharge, but requires a verbal notification to the authorized enforcement agency prior to the time of the test.
- (3) The prohibition shall not apply to any non-storm water discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of the federal Environmental Protection Agency (USEPA) or the Delaware Department of Natural Resources and Environmental Control (DNREC), provided that the discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the storm drain system.
- b.). Prohibition of illicit connections.
- (1) The construction, use, maintenance or continued existence of illicit connections to the storm drain system is prohibited.
- (2) This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
- (3) A person is considered to be in violation of this chapter if the person connects a line conveying sewage to the MS4, or allows such a connection to continue

- (4) Existing connections in violation of this chapter must be disconnected and redirected, if necessary, to an approved wastewater management system or sanitary sewer upon approval of the City and New Castle County.
- (5) Any drain or conveyance that has not been documented in plans, maps or equivalent, and which may be connected to the storm sewer system, shall be located by the owner or occupant of that premises upon receipt of written notice of violation from the City requiring that such locating be completed. Such notice will specify a reasonable time period within which the location of the drain or conveyance is to be determined, that the drain or conveyance be identified as storm sewer, sanitary sewer or other, and that the outfall location or point of connection to the storm sewer system, sanitary sewer system or other discharge point be identified. Results of these investigations are to be documented and provided to the City in a form specified by the City.

#### Section 31-7 Suspension of MS4 Access

- a.). Suspension due to illicit discharges in emergency situations. The City Manager may, without prior notice, suspend MS4 discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or to the MS4 or waters of the State. If the violator fails to comply with a suspension order issued in an emergency, the City may take such steps as deemed necessary to prevent or minimize damage to the MS4 or waters of the State, or to minimize danger to persons.
  - b.) Termination due to the detection of illicit discharge.
  - (1) Any person discharging to the MS4 in violation of this chapter may have his or her MS4 access terminated if such termination would abate or reduce an illicit discharge. The authorized enforcement agency will notify a violator of the proposed termination of its MS4 access. The violator may petition the City for a reconsideration and hearing.
  - (2) A person violates this Chapter if the person reinstates MS4 access to premises terminated or suspended pursuant to this section, without the prior approval of the City.

### Section 31-8 Industrial or Construction Activity Discharges-Notice of Intent

 a.) Any person subject to an industrial or construction activity NPDES stormwater discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the City Manager prior to the allowing of discharges to the MS4.

- b.) The operator of a facility, including construction sites, required to have an NPDES permit to discharge storm water associated with industrial activity shall submit a copy of the Notice of Intent (NOI) to the City at the same time the operator submits the original NOI to DNREC or EPA as applicable.
- c.) The copy of the Notice of Intent may be delivered to the City either in person to Town Hall at 407 Clinton Street, Delaware City or by mailing to:

Notice of Intent to Discharge Storm Water City of Delaware City P.O. Box 4159 Delaware City, DE 19706

d.) A person is in violation of this Chapter if the person operates a facility that is discharging storm water associated with industrial activity, including construction, without having submitted a copy of the Notice of Intent to do so to the City.

#### Section 31-9 Monitoring of Discharges

- a.) Applicability. This section applies to all facilities that have stormwater discharges associated with industrial activity, including construction activity.
  - b.) Access to facilities.
  - (1) The City Manager or his authorized designees shall be permitted to enter and inspect facilities subject to regulation under this Chapter as often as may be necessary to determine compliance with this chapter. If a discharger has security measures in force which require proper identification and clearance before entry into its premises, the discharger shall make the necessary arrangements to allow access to representatives of the City.
  - (2) Facility operators shall allow the City Manager or his designees ready access to all parts of the premises for the purposes of inspection, sampling, examination, and copying of records that must be kept under the conditions of an NPDES permit to discharge stormwater, and the performance of any additional duties as defined by state and federal law.
  - (3) The City shall have the right to set up, utilize, maintain, repair, and replace on any permitted facility such devices as are necessary in the opinion of the City to conduct monitoring and/or sampling of the facility's stormwater discharge

- (4) The City has the right to require the discharger to install, at discharger's expense, monitoring equipment as the City deems necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its own expense. All devices used to measure stormwater flow and quality shall be calibrated as necessary to ensure their accuracy.
- (5) Any temporary or permanent obstruction to safe and easy access to the facility to be inspected and/or sampled shall be promptly removed by the operator at the written or oral request of the City and shall not be replaced. The costs of clearing such access shall be borne by the operator.
- (6) Unreasonable delay in allowing the City access to a permitted facility is a violation of an NPDES stormwater discharge permit and of this Chapter. A person who is the operator of a facility with a NPDES permit to discharge stormwater associated with industrial activity is in violation of this Chapter if the person denies the City reasonable access to the permitted facility for the purpose of conducting any activity authorized or required by this chapter.
- (7) If the City has been refused access to any part of the premises from which stormwater is discharged, and it is able to demonstrate probable cause to believe that there may be a violation of this chapter, or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this chapter or any order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then the City may seek issuance of a search warrant from any court of competent jurisdiction.

## Section 31-10 Use of Best Management Practices (BMPs) to Prevent, Control, and Reduce Stormwater Pollutants

The owner or operator of a commercial or industrial establishment shall provide, at its own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses through the use of structural and nonstructural BMPs. Further, any person responsible for a property or premises, which is, or may be, the source of an illegal discharge may be required to implement, at said person's expense,

additional structural and nonstructural BMPs to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of stormwater associated with industrial activity shall be deemed compliance with the provisions of this section. BMPs may be part of a stormwater pollution prevention plan (SWPP), as necessary, for compliance with requirements of the NPDES permit.

#### Section 31-11 Watercourse Protection

Every person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the watercourse within the property free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse.

#### Section 31-12 Notification of Spills

Notwithstanding other requirements of law, as soon as any person responsible for a facility of operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting or may result in illegal discharges or pollutants discharging into stormwater, the storm drain system, or waters of the State, said person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials said person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services. In the event of a release of non-hazardous materials, said person shall notify the City Manager in person or by phone or facsimile no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to the City of Delaware City within three business days of the phone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years

#### Section 31-13 Enforcement

- a.) Notice of violation. Whenever the City finds that a person has violated a prohibition or failed to meet a requirement of this chapter, the City may order compliance by written notice of violation to the responsible person. Such notice may require without limitation:
  - (1) The performance of monitoring, analyses, and reporting;
  - (2) The elimination of illicit connections or illegal discharges;
  - (3) That violating discharges, practices, or operations shall cease and desist;
  - (4) The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property;
    - (5) Payment of a fine to cover administrative and remediation costs; and
    - (6) The implementation of source control or treatment BMPs.
- b.) If abatement of a violation and/or restoration of affected premises is required, the notice shall set forth a deadline within which such remediation or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work will be done by a designated governmental agency or a contractor and the expense thereof shall be charged to the violator as its personal obligation. Such costs shall constitute a lien on the premises until paid which shall accrue interest at the rate by 6 Del. C. Section 2301, and the City shall be entitled to an award of all court costs, legal fees, and expert witness fees associated with the perfection and execution of such lien or the collection of the underlying obligation.

#### Section 31-14 Appeal of Notice of Violation

Any person receiving a notice of violation may appeal the determination of the City Manager to the Delaware City Board of Adjustment. The notice of appeal must be in writing, shall specify the reasons and grounds for the appeal, and must be received within 10 days from the date of the notice of violation. A hearing on the appeal by the Board of Adjustment shall take place within 25 days from the date of receipt of the notice of appeal.

### Section 31-15 Enforcement Measures after Appeal

If the violation has not been corrected pursuant to the requirements set forth in the notice of violation, or, in the event of an appeal, within 15 days of the decision of the Mayor & Council upholding the decision of the City Manager, then representatives of the City may enter upon the subject private premises and are authorized to take any and all measures necessary to abate the violation and/or restore the premises. It shall be unlawful for any person, owner, agent or person

in possession of any premises to prevent the City or its designated contractor to enter upon the premises for the purposes set forth above.

#### Section 31-16 Cost of Abatement of the Violation

Within 10 days after abatement of the violation, the owner of the property will be notified of the cost of abatement, including administrative costs. The property owner may file a written protest objecting to the amount of the assessment with 10 days. If the amount due is not paid within a timely manner as determined by the decision of Mayor & Council of by the expiration of the time in which to file an appeal, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment. Any person violating any of the provisions of this chapter shall become personally liable to the City by reason of such violation for all costs, fees, damages and expenses incurred or caused by the violation and the remediation of same. The liability shall include per-annum interest on the total amount due, computed on the amount outstanding at the rate provided by 6 Del. C. § 2301.

#### Section 31-17 Injunction Relief

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this chapter. If a person has violated or continues to violate the provisions of this chapter, the City may petition for a temporary restraining order, preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.

## Section 31-18 Compensatory Action

In lieu of enforcement proceedings, penalties, and remedies authorized by this chapter, the City may impose upon a violator alternative compensatory action, such as storm drain stenciling, attendance at compliance workshops, creek cleanup, etc.

#### Section 31-19 Violations Deemed a Public Nuisance

Any person who has violated or continues to violate this chapter shall be liable to criminal prosecution to the fullest extent of the law, and shall be subject to a criminal penalty of \$200 per violation per day and/or imprisonment for a period of time not to exceed 120 days. The City may recover all attorneys' fees, court costs and other expenses associated with enforcement of this chapter, including sampling and monitoring expenses.

#### Section 31-20 Remedies Not Exclusive

The remedies listed in this chapter are not exclusive of any other remedies available under any applicable federal, state or local law, and it is within the discretion of the City to seek cumulative remedies."

Section 31-21 Adoption of Delaware Sediment and Stormwater Management Regulations
A certain document, a copy of which is on file at City Hall of the City of Delaware City,
being marked and designated as the Delaware Sediment and Storm Water Regulations issued by
the Delaware Department of Natural Resources and Environmental Control ("DNREC"), as may
be amended by DNREC from time to time, is hereby adopted by the City of Delaware City as if
set forth fully herein. Except as exempted in the Delaware Sediment and Stormwater
Regulations, no person or entity shall engage in any land-disturbing activity in the City until such
person or entity has submitted and obtained approval for a sediment and stormwater permit.

#### Section 31-22 Applicable Definitions

The definitions in the Delaware Sediment and Stormwater Management Regulations shall apply to Section 31-21 through Section 31-30 of this Chapter and shall not apply to Sections 31-1 through 31-20 of this Chapter.

#### Section 31-23 Delegation and Variances

The Delegated Agency under the Delaware Sediment and Storm Water Regulations for all districts, except for the Historic Preservation and Redevelopment ("HPR") District, is the New Castle County Conservation District. The Delegated Agency for the HPR District is DNREC. The New Castle County Conservation District or DNREC (as applicable) shall be responsible for, among other things, plan reviews, and enforcement pursuant to the Delaware Sediment and Stormwater Management Regulations (Section 3.0-10.0). All requests for variances from the requirements of the Delaware Sediment and Stormwater Regulations adopted hereunder by the City of Delaware City shall be directed to DNREC, as provided for in Section 1.5 of the Delaware Sediment and Storm Water Regulations as may be amended from time to time. The decision and appeals provision therein shall govern all variances and other requests.

#### Section 31-24 Plans and Approvals

Whenever a sediment and/or stormwater management plan is required, the plans shall conform to the most current Delaware Sediment and Stormwater Regulations. Applicants are

required to pay all fees and fines assessed or charged by DNREC or the New Castle County Conservation District. No subdivision approvals, building permit approvals, or other land use related approvals shall be granted unless and until DNREC or the New Castle Conservation District confirms, in writing, that all necessary approvals have been received, and that all financial guarantees (if applicable) have been implemented.

## Section 31-25 Right of Entry and Certified Construction Reviewer Reports

Whenever the Delaware Sediment and Stormwater Regulations allow for a site visit, a construction review, or a maintenance review, the City Manager or persons authorized by the City Manager in writing may visit the site, perform a review, inspect, or attend meetings in the same manner as a representative of DNREC or the New Castle County Conservation District is authorized. Copies of all Certified Construction Reviewer Reports shall be submitted to the City at the same time such reports are submitted to DNREC or the New Castle County Conservations District.

#### Section 31-26 Maintenance Responsibility Obligations

Delaware City shall not accept maintenance responsibility for any stormwater management system unless a legal agreement between the Owner of the system and the City is approved by the City Council.

## Section 31-27 Violations and Withholding of Permit Approvals

If DNREC or the New Castle County Council Conservation District find violations, seek enforcement, or if fines and penalties are outstanding, upon request of the requesting agency, the City of Delaware City shall withhold any future permits for the project until DNREC or the New Castle County Council Conservation District confirm in writing that the violations or applicable penalties are remedied.

#### Section 31-28 Liability

Nothing in this Chapter shall create any liability for loss for damage resulting from the failure of the City to perform any responsibility stated in this Chapter or obligate the City to make any appropriation or to expend any money not appropriated for any purpose stated in this Chapter.

#### Section 31-29 Minimum Requirements

The Delaware Sediment and Stormwater Regulations are minimum requirements. The City, DNREC, or the New Castle County Conservation District may require more stringent requirements in certain situations based on historical drainage, flooding problems, preservation or environmentally sensitive areas, or based on site specific circumstances.

#### Section 31-30 Conflict

Where there is a conflict between a provision in this Chapter and another chapter of the City Code or the Delaware Sediment and Stormwater Regulations, the more restrictive provision or interpretation shall apply.

#### Section 31-31 Injunctive Relief

In addition to the penalties and enforcement mechanisms available to DNREC or the New Castle County Conservation District, the City Manager or the City Council may authorize the City to seek injunctive relief for violations or the Delaware Sediment and Stormwater Management Regulations adopted by reference hereunder. If the City prevails in an action for injunctive relief, the City shall receive an award of all attorneys' fees and costs incurred, which may be enforced against the violator and /or the property owner jointly and severally.

Section 31-21 through 31-31 was created by Ordinance 14-1215-02 (adopted on March 4, 2015)



## THE CITY OF DELAWARE CITY

407 Clinton Street - P.O. Box 4159

Delaware City, Delaware 19706

Phone: 302-834-4573 Fax: 302-832-5545

**April**, 2018

# INVENTORY of FACILITIES City of Delaware City

Facility	Type of Use	Description	Parcel Size	Address	Comments		
The Cutting Edge	Material, Vehicle & Equipment Storage	Public Works Yard 144.9 x 440.8		601 Fifth Street			
Battery Park	Public Park	Gazebo, Walking Path, and Boat Lock	629.1 x 206.4	Battery Park	Maintenance performed by our contractor, The Cutting Edge		
Seventh Street Park	Public Park	Playground Equipment	420 x 627	Seventh Street Park	Maintenance performed by our contractor, The Cutting Edge		
Pump House/Well 4	Water Well	Water Well Maintenance Equipment	100 x 104	321 Washington St/506 Fourth St	Equipment maintained by our Subcontractor Artesian		

## City of Delaware City Good Housekeeping Stormwater Inspection Report

FACILITY NAME: Battery Park			INSPECTION TIME: 4.00PM DATE: 4-3-18					
WEATHER INFORMATION:								
Description of Weather Conditions (e.g., sunny, cloudy, raining, s	snow	ing,	etc.):	:				
<ul> <li>Was stormwater (e.g., runoff from rain or snowmelt) flowing at or inspection: ☐ Yes ☒ No ☐ Comments:</li> </ul>	utfal	ls an	d/or	discharge areas shown on the Site Map during the				
I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AN	D B	EST	MA	NAGEMENT PRACTICES EVALUATION				
Vehicle/Equipment Areas:	_	_	NA	Findings and Remedial Action				
Equipment cleaning: Check NA if not performed on-site. Skip section.				Documentation:				
Is equipment washed and/or cleaned only in designated areas?			×					
<ul> <li>Observe washing: Is all wash water captured and properly disposed of?</li> </ul>			×					
Equipment fueling: Check NA if not performed on-site. Skip section.								
<ul> <li>Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?</li> </ul>			×					
<ul> <li>Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?</li> </ul>			×					
<ul> <li>Are structures in place to prevent precipitation from accumulating in containment areas?</li> </ul>								
<ul> <li>If not, is there any water or other fluids accumulated within the containment area?</li> </ul>								
Equipment maintenance:	Yes	No	NA	Findings and Remedial Action				
<ul> <li>Are maintenance tools, equipment and materials stored under shelter, elevated and covered?</li> </ul>			x	Documentation:				
<ul> <li>Are all drums and containers of fluids stored with proper cover and containment?</li> </ul>			×					
<ul> <li>Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.</li> </ul>			×					
<ul> <li>Is there evidence of leaks or spills since last inspection? Identify and address.</li> </ul>			×					
Add any additional site-specific BMPs:								
8								

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AN	_		_		JATION
Good Housekeeping BMPs:	Yes	No	NA	Findings and Remedial Action Documentation:	
1. Are paved surfaces free of accumulated dust/sediment and debris?	X			Documentation:	
<ul> <li>Are there areas of erosion or sediment/dust sources that discharge to storm drains?</li> </ul>		X			
2. Are there an adequate number of waste receptacles?	X				
3. Are waste receptacles in good condition and not leaking contaminants?	X			×	ļ
4. Is litter routinely collected?				9 15	
5. Are stockpiled materials (including road salt) stored in such a manner that they do not allow the discharge of contaminants to the MS4?			×		
6. Other areas of concern?:					
	L				
Observation of Stormwater Discharges:	Yes	No	NA	Findings and Remedial Action Documentation:	
<ul> <li>Is the discharge free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam or any other signs of</li> </ul>			X		
contamination?					
<ul> <li>II. CORRECTIVE ACTION DESCRIPTIONS: Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.</li> </ul>					
			_		
		_			
III. CERTIFICATION STATEMENTS AND SIGNATURES:					en in in on inc
Kathy Clifton Karly Clifton				Land Use Administra	4-3-18
Inspector's Name – Printed Inspector's Signature				Inspector's Title	Date
		-			

## City of Delaware City Good Housekeeping Stormwater Inspection Report

FACILITY NAME: The Cutting Edge Public Wa	1-15	INS	SPEC	CTION TIME: 3:30PMDATE: 4-3-18
WEATHER INFORMATION:	-D	29.4		
Description of Weather Conditions (e.g., sunny, cloudy, raining, cloudy)	snow	ring,	etc.)	;
<ul> <li>Was stormwater (e.g., runoff from rain or snowmelt) flowing at o inspection:</li></ul>	utfal	ls an	d/or	discharge areas shown on the Site Map during the
I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AN	DB	EST	Ма	NACEMENT PRACTICES EVALUATION
Vehicle/Equipment Areas:			NA	Findings and Remedial Action
Equipment cleaning: Check NA if not performed on-site. Skip section.				Documentation:
Is equipment washed and/or cleaned only in designated areas?		×		
<ul> <li>Observe washing: Is all wash water captured and properly disposed of?</li> </ul>				
Equipment fueling: Check NA if not performed on-site. Skip section.				All fuel tanl(s in self container
<ul> <li>Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?</li> </ul>				concrete retention center with an emergency frel shot off switch
<ul> <li>Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?</li> </ul>				shut off switch
<ul> <li>Are structures in place to prevent precipitation from accumulating in containment areas?</li> </ul>	¥			valved
o If not, is there any water or other fluids accumulated within the containment area?				
Equipment maintenance:	Yes	No	NA	Findings and Remedial Action
<ul> <li>Are maintenance tools, equipment and materials stored under shelter, elevated and covered?</li> </ul>	×			Documentation:
<ul> <li>Are all drums and containers of fluids stored with proper cover and containment?</li> </ul>	×			No Drums
<ul> <li>Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.</li> </ul>		×		
<ul> <li>Is there evidence of leaks or spills since last inspection? Identify and address.</li> </ul>		×		
Add any additional site-specific BMPs:				

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AN			_		UATION
Good Housekeeping BMPs:		No	NA	Findings and Remedial Action Documentation:	
1. Are paved surfaces free of accumulated dust/sediment and debris?	×			Documentation:	
<ul> <li>Are there areas of erosion or sediment/dust sources that discharge to storm drains?</li> </ul>				To a C	
2. Are there an adequate number of waste receptacles?	X			pumpsTers	
3. Are waste receptacles in good condition and not leaking contaminants?	X				
4. Is litter routinely collected?	X				
5. Are stockpiled materials (including road salt) stored in such a manner that they do not allow the discharge of contaminants to the MS4?	X				
6. Other areas of concern?:					
Observation of Stormwater Discharges:	Yes	No	NA	Findings and Remedial Action Documentation:	
<ul> <li>Is the discharge free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam or any other signs of contamination?</li> </ul>	×			Documentation:	
<ul> <li>II. CORRECTIVE ACTION DESCRIPTIONS: Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.</li> </ul>					
	•				
III. CERTIFICATION STATEMENTS AND SIGNATURES:					
Kathy Clifton Kathy Clifton				Land Use Administrate	£ 4-3-18
Inspector's Name – Printed Inspector's Signature				Inspector's Title	Date

#### City of Delaware City Good Housekeeping Stormwater Inspection Report

FACILITY NAME: Pump House - Well 4		IN	SPE	CTION TIME: 4:05PM DATE: 4-3-18
WEATHER INFORMATION:				
Description of Weather Conditions (e.g., sunny, cloudy, raining,	snov	wing,	, etc.)	):
• Was stormwater (e.g., runoff from rain or snowmelt) flowing at of inspection: ☐ Yes ☒ No ☐ Comments:	outfa	lls ar	nd/or	discharge areas shown on the Site Map during the
I POTENTIAL POLITITANT SOURCE AREA INSPECTION AN	UD D	DOT		
I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AN Vehicle/Equipment Areas:			NA	
Equipment cleaning: Check NA if not performed on-site. Skip section.			×	Documentation:
Is equipment washed and/or cleaned only in designated areas?				
<ul> <li>Observe washing: Is all wash water captured and properly disposed of?</li> </ul>				
Equipment fueling: Check NA if not performed on-site. Skip section.				
<ul> <li>Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?</li> </ul>				
• Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?				
<ul> <li>Are structures in place to prevent precipitation from accumulating in containment areas?</li> </ul>				
<ul> <li>If not, is there any water or other fluids accumulated within the containment area?</li> </ul>				
Equipment maintenance:	Yes	No	NA	Findings and Remedial Action
<ul> <li>Are maintenance tools, equipment and materials stored under shelter, elevated and covered?</li> </ul>			X	Documentation:
<ul> <li>Are all drums and containers of fluids stored with proper cover and containment?</li> </ul>				
<ul> <li>Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.</li> </ul>				
<ul> <li>Is there evidence of leaks or spills since last inspection? Identify and address.</li> </ul>				
Add any additional site-specific BMPs:				
				a y

The state of the s		No		NAGEMENT PRACTICES EVALU Findings and Remedial Action	
Good Housekeeping BMPs:	res	140	TASF	Documentation:	
Are paved surfaces free of accumulated dust/sediment and debris?		-		A service and the service and	
<ul> <li>Are there areas of erosion or sediment/dust sources that discharge to storm drains?</li> </ul>		+			
. Are there an adequate number of waste receptacles?	2				
Are waste receptacles in good condition and not leaking contaminants?	×				
Is litter routinely collected?			X		
5. Are stockpiled materials (including road salt) stored in such a manner that they do not allow the discharge of contaminants to the MS4?			X		
6. Other areas of concern?:					
Observation of Stormwater Discharges:	Yes	No	NA	Findings and Remedial Action Documentation:	
<ul> <li>Is the discharge free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam or any other signs of contamination?</li> </ul>			×		
<ul> <li>II. CORRECTIVE ACTION DESCRIPTIONS: Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.</li> </ul>					
CORPORATION OF A MENTENITO AND CICMATIDEC.	Øn.				
III. CERTIFICATION STATEMENTS AND SIGNATURES:					
		27.570	-		
Kathy Clifton Keety Clifton				ADMINIST RATTOR  Inspector's Title	4-7-18 Date

#### City of Delaware City Good Housekeeping Stormwater Inspection Report

FACILITY NAME: Seventh Street Park		INS	PEC	CTION TIME: 4.15PM DATE: 4-3-18
WEATHER INFORMATION:				
Description of Weather Conditions (e.g., sunny, cloudy, raining, s	snow	ring,	etc.):	:
<ul> <li>Was stormwater (e.g., runoff from rain or snowmelt) flowing at or inspection: ☐ Yes ☒ No ☐ Comments:</li> </ul>	utfal	ls an	d/or	discharge areas shown on the Site Map during the
I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AN	D B	EST	MA	NAGEMENT PRACTICES EVALUATION
Vehicle/Equipment Areas:	_		NA	Findings and Remedial Action
Equipment cleaning: Check NA if not performed on-site. Skip section.			×	Documentation:
Is equipment washed and/or cleaned only in designated areas?				8
<ul> <li>Observe washing: Is all wash water captured and properly disposed of?</li> </ul>				
Equipment fueling: Check NA if not performed on-site. Skip section.				
<ul> <li>Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?</li> </ul>				
• Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?				
<ul> <li>Are structures in place to prevent precipitation from accumulating in containment areas?</li> </ul>				
o If not, is there any water or other fluids accumulated within the containment area?				
Equipment maintenance:	Yes	No	NA	Findings and Remedial Action
<ul> <li>Are maintenance tools, equipment and materials stored under shelter, elevated and covered?</li> </ul>			X	Documentation:
<ul> <li>Are all drums and containers of fluids stored with proper cover and containment?</li> </ul>				
<ul> <li>Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.</li> </ul>				
<ul> <li>Is there evidence of leaks or spills since last inspection? Identify and address.</li> </ul>				
Add any additional site-specific BMPs:				

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AN		_			LUATION
Good Housekeeping BMPs:	Yes	No	NA		
1. Are paved surfaces free of accumulated dust/sediment and debris?	×			Documentation:	
<ul> <li>Are there areas of erosion or sediment/dust sources that discharge to storm drains?</li> </ul>		×		*	
2. Are there an adequate number of waste receptacles?	X				
3. Are waste receptacles in good condition and not leaking contaminants?	X				
4. Is litter routinely collected?					
5. Are stockpiled materials (including road salt) stored in such a manner that they do not allow the discharge of contaminants to the MS4?			X		
6. Other areas of concern?:					
-					
Observation of Steamwood Price bearings	Yes	No	NA	Findings and Remedial Action	
Observation of Stormwater Discharges:  • Is the discharge free of floating materials, visible oil sheen,				Documentation:	
discoloration, turbidity, odor, foam or any other signs of contamination?			X		
<ul> <li>II. CORRECTIVE ACTION DESCRIPTIONS: Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.</li> </ul>					
			151711-1		
III. CERTIFICATION STATEMENTS AND SIGNATURES:					
					Priest Low 1971 July 1
12-20-1				cand use	
Kathy Clifton Edy Clifton				ADMINISTRATOR	14-3-18
Inspector's Name – Printed Inspector's Signature				Inspector's Title	Date

	9	STORM WATER MANAGEMENT TRAINI	TRAINING SESSIONS	
DATE	NAME of TRAINING SESSION/Webinar	OFFERED BY	WHO ATTENDED	
11/2/2017	11/2/2017 Tracking & Eliminating Illicit Discharge	Chesapeake Stormwater Network	Kathy C.	
11/16/2017	11/16/2017 Good Housekeeping & Municipal Pollution Prevent Chesapeake Stormwater Network	Chesapeake Stormwater Network	Kathy C.	
3/15/2017	3/15/2017 User's Guide to BMPs in the Chesapeake Bay	Chesapeake Stormwater Network	Kathy C.	
3/30/2017	3/30/2017 Impervious Cover Disconnection & CMAC	Chesapeake Stormwater Network	Kathy C.	



TRACY ZLOCK SURLES
ACTING GENERAL MANAGER

#### 187-A OLD CHURCHMANS ROAD NEW CASTLE, DE 19720 (302) 395-5700

#### DEPARTMENT OF SPECIAL SERVICES

#### COMMERCIAL/INDUSTRIAL STORMWATER MANAGEMENT SEMINAR

James H. Gilliam Building November 8, 2017

New Castle County Stormwater Management Website: http://stormwater.ncede.org

8:30 a.m. - 9:00 a.m. Registration

9:00 a.m. - 9:05 a.m. Introductions

9:05 a.m. - 9:10 a.m. NPDES (National Pollutant Discharge Elimination System) Permit

Michael Harris, Environmental Compliance Manager

NCC, Department of Special Services MHarris@nccde.org, (302) 395-5806

9:10 a.m. - 9:30 a.m. DelDOT's Landscape: The Connection between Catch Basins to Lawns

Emily Seldomridge PhD, NPDES Environmental Scientist IV

State of Delaware, Department of Transportation Emily.Seldomridge@state.de.us, (302) 760-2195

9:30 a.m. - 9:50 a.m. Annual Stormwater Management Maintenance Program

Ellie Mortazavi, Stormwater Program Coordinator

NCC, Department of Special Services EMortazavi@nccde.org, (302) 395-5732

9:50 a.m. - 10:00 a.m. BREAK

10:00 a.m. - 10:20 a.m. Annual Stormwater Management Inspection Process

Bernadette Igo, Stormwater Inspection Supervisor

NCC, Department of Special Services Blgo@nccde.org, (302) 395-5743

10:20 a.m. - 10:40 p.m. Identification and Control of Common Invasive and Nuisance Vegetation in Stormwater Mgmt. Systems

Wes Allen, Environmental Scientist/Territory Leader

Solitude Lake Management

WAllen@Solitudelake.com, 302-329-7664

10:40 a.m. - 11:00 a.m. Stormwater Management Post Construction Review & Approval Process

Stacy McNatt, CE II, P.E.

NCC, Department of Special Services SMcNatt@nccde.org. (302) 395-5878

11:00 a.m. - 11:10 a.m. Annual Subsurface Inspection and Maintenance Logs

Carolyn Magnotti, Customer Information and Assistance Coordinator

NCC, Department of Special Services CMagnotti@necde.org, (302) 395-5789

11:10 a.m. - 11:30 a.m. Questions and Answers and Survey

Janice Catherman Steven C. Cardner

 Janice Catherman
 Steven C. Gardner
 Bill Jones

 Asst. Land Use Administrator
 Public Works Inspector
 Public Works Inspector

 JCatherman@nccde.org
 SCGardner@nccde.org
 PWJones@nccde.org

 (302) 395-5754
 (302) 395-5775
 (302) 395-5810

HONESTY ★ TRANSPARENCY ★ EFFICIENCY

COUNTY EXECUTIVE



#### 187-A OLD CHURCHMANS ROAD NEW CASTLE, DE 19720 (302) 395-5700

#### DEPARTMENT OF SPECIAL SERVICES

#### RESIDENTIAL STORMWATER MANAGEMENT SEMINAR

James H. Gilliam Building November 8, 2017

	November 8, 2017
New Ca	stle County Stormwater Management Website: http://stormwater.nccde.org
5:30 p.m 6:00 p.m.	Registration
6:00 p.m. – 6:05 p.m.	Introductions
6:05 p.m. – 6:15 p.m.	Office of Constituent Services Kenny Dunn KNDunn@nccde.org, (302) 395-5112
6:15 p.m. – 6:20 p.m.	NPDES (National Pollutant Discharge Elimination System) Permit Michael Harris, Environmental Compliance Manager Department of Special Services  MHarris@necde.org, (302) 395-5806
6:20 p.m. – 6:30 p.m.	DelDOT, Emily Seldomridge, PhD, NPDES Environmental Scientist IV Emily.Seldomridge@state.de.us, (302) 760-2195
6:30 p.m. – 6:50 p.m.	Annual Stormwater Management Maintenance Program Elli Mortazavi, Stormwater Program Coordinator, Department of Special Services EMortazavi@nccde.org, (302) 395-5732
6:50 p.m 7:00 p.m.	BREAK
7:00 p.m. – 7:20 p.m.	Annual Stormwater Management Inspections Process Bernadette Igo, Stormwater Inspection Supervisor NCC, Department of Special Services Blgo@nccde.org, (302) 395-5743
7:20 p.m. – 7:45 p.m.	Stormwater Management Major Projects Stacy McNatt, CE II, P.E. NCC, Department of Special Services SMcNatt@nccde.org, (302) 395-5878
7:45 p.m. – 8:00 p.m.	Stormwater Maintenance Program Annual Registration and Logs Janice Catherman, Assistant Land Use Administrator Department of Special Services JCatherman@nccde.org, (302) 395-5754
8:00 p.m. – 8:30 p.m.	Questions and Answers & Survey
St	First warming of a - constitution of the const

Steven C. Gardner, Public Works Inspector SCGardner@nccde.org, (302) 395-5775

Bill Jones, Public Works Inspector PWJones@nccde.org, (302) 395-5810

Carolyn Magnotti, Customer Information and Assistance Coordinator <a href="Magnotti@nccde.org">CMagnotti@nccde.org</a>, (302) 395-5789

#### **MEETING AGENDA**

## 2018 Annual Phase I MS4 Co-Permittee Meeting KCI Newark, DE Office March 6, 2018 – 9:30 AM

#### 1. Co-Permittee To-Do List

- Annual / Recurring Tasks (Handout) 2017 Documents due May 1, 2018.
- 2017 Tasks
  - o Illicit Discharge
    - Develop / Finalize Ordinance.
  - Permitted / Non-Permitted Facilities
    - Develop Guidelines / Checklists.
  - o Public Education / Involvement Impressions
    - Does each Permittee have their "2017 number"?
- 2018 Tasks
  - SWM during Construction & Post Construction:
    - Review / Revise Ordinances / Code due August 7, 2018.
- 2019 Tasks
  - o Urbanized / Impervious Mapping
    - "Ground Truth" due February 7, 2019.

#### 2. WQIP

- Existing Projects in Municipal Boundaries
  - o Process
  - o Credits
- Projects in WQIP Watersheds
  - o Christiana
  - o Dragon Run

#### 3. DNREC

- 2017 Annual Reports.
- Next Permit.
- Future Audits.

#### 4. Open Discussion

## Countywide NPDES MS4 Permit March 23, 2017 Co-Permittees Annual Meeting

In attendance:

David Brenner - Bellefonte

Kathy Clifton - Delaware City

Diana Reed – Elsmere Wendy King – Newport Jeff Bergstrom – New Castle

Kevin Donnelly – New Castle Conservation District Andy Bowman – New Castle Conservation District

Mike Harris – New Castle County Department of Special Services Ellie Mortazavi – New Castle County Department of Special Services Stacy McNatt – New Castle County Department of Special Services

Brian Urbanek – DelDOT Andrew Whitman – DelDOT Sara Esposito - DelDOT

Bruce Thompson – KCI Technologies David Athey – AECOM (recording)

Attendees introduce themselves. Due to scheduling difficulties, the City of Wilmington was unable to attend the meeting but a separate meeting will be held with them on April 6<sup>th</sup>. Any Copermittee can attend.

The previously distributed Co-permittee "to do" was reviewed. Regarding public outreach, New Castle County described its recent efforts which included the setting up of a citizen notification number for citizen complaints or observations (302-STOPPIT) and surveys prior and subsequent establishment of the number which showed a statistically-valid increase in public awareness. DelDOT described their educational efforts which included outreach regarding used motor oil and pet wastes as well as the Delaware Nursery and Landscape Association.

New Castle County further described monthly coordination calls they are having with their partners and invited the Co-permittees to participate. The County also stated they have a table for use at various events for the distribution of educational materials. It includes a removable logo and the County will make it available to Co-permittees upon request. New Castle County also said the Water Resources Agency at the University of Delaware was assisting them by providing an online calendar which tracks relevant meetings, activities, etc. The County said that Co-permittees could also have their events added.

The evaluation and screening of outfalls was discussed. KCI will be performing this task in Delaware City, Elsmere, and New Castle. The Town Engineer will perform this task in Newport. KCI will provide its data collection forms to the town such that reporting will be consistent. Everyone was reminded that since there are so few outfalls located within the boundaries of Co-permittee cities and towns, the SWPP & MP stated that the evaluation process will be omitted in these instances and all outfalls will be screened.

The County stated that its current impervious area mapping is old and described how it intends to update the mapping in coming years. DelDOT stated that the University of Vermont was also preparing maps that may be of use. The need by Co-permittees to "ground-truth" the mapping was briefly noted.

It was found that an inconsistency exists between the SWPP & MP and the Inter-jurisdictional agreements regarding the mapping of inlets, pipes, outfalls, and stormwater management structures. The SWPP & MP states mapping will be provided by the Co-permittees by the end of the 6<sup>th</sup> month of SWPP & MP implementation whereas the IJA specified mapping will be provided prior to or soon after initiation of Water Quality Improvement Plans. The Co-permittees believed they could provide the mapping by the 6<sup>th</sup> month of SWPP & MP implementation which would eliminate the inconsistency.

Newport stated that they lease their public works yard from DelDOT. No one knew if the lease specified whether the Town or DelDOT was responsible for runoff water quality as the lease likely predates the NPDES regulations. DelDOT and Newport agreed to further investigate.

The New Castle Conservation District is in the process of inspecting best management practices in Co-permittee cities and towns. The District clarified that they will send their information once finished to the Co-permittees who will be responsible for including it in their annual reports.

New Castle County provided an update of the Water Quality Improvement Plans. Thirty-six sites in the unincorporated County have been selected for further investigation in the Christina Basin with another dozen or so preliminarily identified in the Dragon Run. Co-permittees were reminded that they may need to share in costs at some point in the future.

All the Co-permittees stated they knew what documentation needs to be provided by May 1 for the annual report.

New Castle County and DelDOT stated that they anticipate audits to be conducted by DNREC in the fall and described past audits to the Co-permittees. Co-permittees were reminded that if in some instances reporting of an activity was not warranted, they should still provide documentation stating "not applicable" or similar terminology as opposed to not documenting the situation.

New Castle County will hold its annual public workshops in the fall. One is intended for commercial property owners and a second is intended for home owner associations. Copermittees will be invited and they were reminded that their attendance was specified in the SWPP & MP.

The next annual meeting will occur in the spring of 2018.

#### City of Delaware City

#### Pesticide, Herbicide and Fertilizer Application

#### **Standard Operating Procedures**

#### General

Delaware City subcontracts out with The Cutting Edge, Inc. for the application of the Herbicide, Round-Up, that is used on City owned property. No Pesticides or Fertilizers are used on City Property.

#### **Enforcement Action**

Our subcontractor only uses the non-selective herbicide Round-Up on City owed property to minimize pollutants from going into the Storm Drains and Storm Water System. All Personal Protective Equipment (PPE) per label instructions are used. Round-Up is only applied during dry weather directly to the soil using a manual back pack sprayer. Round-Up is diluted as is stated on the label to further protect from polluting the storm water system. All instructions on the label are followed.

#### City of Delaware City

#### Snow & Ice

#### **Standard Operating Procedures**

#### General

Delaware City subcontracts out with The Cutting Edge, Inc. for the plowing and salting of the City of Delaware City Streets.

#### **Enforcement Action**

The Cutting Edge plows the City Streets after one (1) inch of snow has fallen. They apply salt to the streets as conditions require. Different events demand different applications. The amount of salt applied to the streets is speed controlled. The salt applied is measured per storm and recorded in a log at Delaware City Town Hall. All precautions are taken into consideration to alleviate pollutants from entering the storm drains and Storm Water system.

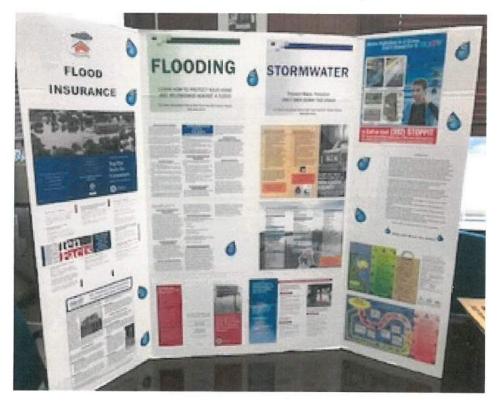
#### Stormwater Management - Salt Used Per Snowfall

DATE	TOTAL SALT USED	Calcium
1/5-6/2015	16 Tons	
1/13-14/2015	11 Tons	
1/21/2015	8 Tons	
1/22/2015	4 Tons	
1/23-24/2015	11 Tons	
1/26-27/15	8 Tons	
2/17/2015		
2/21/2015		
1/24-27/2016	36 Tons	14 bags of Calcium
2/5/2016	12 Tons	
2/8/2016	8 Tons	
12/17/2016		11 bags of Calcium
1/7/2017		8 bags of Calcium
2/17/2018	20 Tons	14 bags of Calcium
3/7/2018	16 Tons	9 bags of calcium
3/20/2018	12 Tons	12 bags of Calcium
3/21/18-3/22/	22 Tons	14 bags of Calcium

	101/	AMPRESSIONS - CITY NOWS
DATE	# DISTRIBUTED	SUBJECT MATTER
Mar, 2017	933	Ways to Prevent Runoff & 302 Stoppit
12-May-17	908	(302)STOPPIT Water Pollution Hotline/Hazardous Waste
11-Jul-17	933	Street Sweeping - Benefits and Schedule of St Closures
12-Sep-17	933	(302)STOPPIT Water Pollution Hotlinel
20-Nov-17	850	Hazardous Waste Disposal Info
3/12/2018	850	Stormwater Management/ Disposing of HH Pollutants

our newsletter is distributed to all residents.
Goes out bi-monthly

#### Bulletin Board used for Delaware City Day + Riverstown Festival



There has been none

								DATE	
								PARCEL#	
								NAME	
								ADDRESS	STORM WATE
								PHONE NUMBER COMPLAINT	STORM WATER MANAGEMENT COMPLAINTS
								COMPLAINT	PLAINTS
								RESOLUTION	



#### THE CITY OF DELAWARE CITY

407 Clinton Street - P.O. Box 4159

Delaware City, Delaware 19706

Phone: 302-834-4573 Fax: 302-832-5545

#### City of Delaware City Street Sweeping Standard Operating Procedure

The City of Delaware City contracts out its Street Sweeping Program to Thesing Power Sweeping, Inc. Currently there is eight (8) miles of road within the City. Delaware City has Thesing Company mechanically sweep two (2) times a year. Residents are notified of the days that they must remove their cars from the street so all streets can be swept curb to curb, where curbs exist, and from road edge to road edge where there is no curbing. Street Sweeping occurs over a span of two (2) days to allow for the removal of cars from the street.

There are no interstates and expressways in Delaware City. DelDOT is responsible for sweeping Fifth Street (Route 9) within the corporate limits of the City.

Debris collected will be transported to the Cutting Edge's public works yard where it will be placed in a covered dumpster. The Cutting Edge will take reasonable measures to assure that all stored street sweepings are contained on site. At appropriate times, the Cutting Edge will transport debris to a landfill operated by the Delaware Solid Waste Authority (DSWA). At this time, the weight will be determined. These records will be reported annually and maintained by the City for a period of at least five (5) years. DSWA requires a permit in order to accept municipal street sweepings. The permit needs to be renewed annually which necessitates the analysis of samples taken from the collected debris. The City of Delaware City and their contractors will adhere to DSWA requirements and renew its permit each year.

- · Street Sweeping will only occur during dry weather.
- · Street Sweeping will not occur during the Winter.
- Thesing Company will maintain their equipment and make sure there employees are trained properly.

The City of Delaware City contracts out to The Cutting Edge to clean the storm catch basins monthly on a rotating bases. Storm Drain Lids are removed and visual inspections are performed. Those found to have clogged drains or the accumulations of sediment are cleaned.

During the Fall months, The Cutting Edge vacuums leaves throughout the City on a weekly basis.



# City of Delaware City New Castle County, Delaware



Official Zoning Map of Delaware City

OS-R

Other Symbols

Municipal Boundary

Water

Parcels

May 2016 1000

ENGINEERING, SURVEYING, ENVIRONMENTAL, SCHENCES
GOPEOPLES PLAZA, NEWARK, DE 1970
HONE, (973/83437); FAX, (1970)

0.0
2
9
Ē
ee
3
+ 5
ee
÷
V)

	BY ILLICIT DISCHARGE	Edge														
	DUMPED AT	Middletown Materials, Inc.	Middletown Materials, Inc.	Middletown Materials, Inc.	Middletown Materials Inc	Middletown Materials Inc	Middletown Materials, Inc.	Middletown Materials, Inc.								
Street Sweeping Log	SUBMITTED TO DSWA	7/29/2015	6/1/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Street	SUBMITTED TO DelDOT	7/29/2015	6/1/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	MATERIAL COLLECTED	7/22-23/15 20.86 Tons	5.09 Tons	5.09 Tons		5.09 Tons	6 Tons	6 Tons								
	DATE	7/22-23/15	4/19-20/16 5.09 Tons	7/20-21/16 5.09 Tons	12/12-13/16	7/18-19/20175.09 Tons	12/19,2017 6 Tons	12/20/2017 6 Tons								

Told we do not have to submit to Del Dot & DSWA any longer because we use Middletown Materials.

τ X ...

### CATCH BASIN LOG

#### STORM DRAIN MAINTENANCE LOG

MAY 2017

STREET NAME	LOCATION	# of CATCH BASNS	DATE SERVICED	LID PULLED
Warfel Drive	1 133	2	5/5	Ver?
D. I. III	125	. 2	1	-
Reybold Drive	138	2		
	120	2		
	12	2		
	8	2	1	
7th Street	Park	4		yes
Hamilton Street	500	2	5/10	
	216	1	3/1	
	214	3		
Hamilton & 3rd		6	1	
Hamilton & 2nd		4	1	
Hamilton & Williams		2	5/12	
Clinton Street	unit block	10	- 5/12	
	Park	3	- /	
	100	2		
	428	1	V-12	
Bayard & 3rd		4	5/16	
Bayard & Canal		4	-/-	
Canal Street	Rear of School	1		
Canal & 4th		1		1/20
anal & 3rd		1	08	
anal & Front		3	5/19	
	212	3		
	124	1		
	116	2	_	
elaware Street		. 2	/	
Vashington Street	unit block		#	
	232	10	5/27	
/ashington & Front	204	1 3	//	
ashington & 3rd		4		
dams & 3rd				
dams & Henry		5		
fferson Street	212			
efferson & 3rd		1	5/26	
adison & 3rd		5		
adison	211	5		
	209	2		
	209	2	5/30	
onroe Street	300 Block	3		
onroe St. Out Fall	JUU BIOCK	7	/	

STREET NAME	LOCATION	# of CATCH BASNS	DATE SEDIMAN	Line 201
Warfel Drive	135	2		D LIU PULLE
	125	. 2	6/2	
Reybold Drive	138	2		
	120	2		-
	12	2		-
	8	2		
7th Street	Park	4	*//2	-
Hamilton Street	500	2	6/2	
	218	1		
	214	3		+
Hamilton & 3rd		6		-
Hamilton & 2nd	·	4		+
Hamilton & Williams		2	1/0	
Clinton Street	unit block	10	6/9	-
	Park	3	- / <u>-</u>	-
	100	2		-
	428	1	*	-
Bayard & 3rd	720	4	6/13	
Bayard & Canal		4		-
Canal Street	Rear of School	1 1		
Canal & 4th	rical of opinoon	1		
Canal & 3rd		1	*	
Canal & Front		3	6/16	
	212	3		yeso
	124	1	-	1
	116	2		
Delaware Street	110	2		-
Washington Street	unit block	10	\$	
	232	10	6/21	
Vashington & Front	202	3		
Vashington & 3rd		4		yes
dams & 3rd		5		0
dams & Henry		3	#	
efferson Street	212	1	6/27	
efferson & 3rd	. 212	5		
ladison & 3rd		5		
ladison	211	2	di	10000000
	209		6/29	
	207	2	1	
lonroe Street	300 Block	3 7		
onroe St Out Fall	SUU DIOCK	- /	/	1

STREET NAME	LOCATION	# of CATCH BASNS	BATE SEDIMOED	ly 201
Warfel Drive	135	2	DATE SERVICED	LID PULLE
	125	. 2	7/6	-
Reybold Drive	138	2		
	120	2		
	12	2	<del></del>	-
	8	2	_/	
7th Street	Park	4	A	
Hamilton Street	500	2	7/11	
	218	1		
	214	3		
Hamilton & 3rd		6		
Hamilton & 2nd	1	4		
Hamilton & Williams	1	2	- d	
Clinton Street	unit block	10	7/19	
	Park	3	- /	,
	100	2		
	428			
Bayard & 3rd	. 420	1		
Bayard & Canal		4	\$/	
Canal Street	Rear of School	4	7/19	
Canal & 4th	IVEST OF SCHOOL	1	//	
Canal & 3rd		1		
Canal & Front		1		
	212	3	y i	
	124		1/21	
	116	1	1	
Delaware Street	110	2		
Vashington Street	11076 1-1	. 2		
TOOMING TOTAL OCCUPANT	unit block	10		
Vashington & Front	232	1		
Vashington & 3rd		3	7/25	
idams & 3rd		4	//	
dams & Henry		5		
efferson Street	212	3		
efferson & 3rd	212	1		
fadison & 3rd		5	1	yes
fadison	211	5	7/28	0
	Part of the last o	2		
	209	2		
lonroe Street	207	3		
lonroe St. Out Fall	300 Block	7		
1		2	de	

STREET NAME	LOCATION	# of CATCH BASNS	DATE SERVICED	9 201
Warfel Drive	135	2	S/2	LIL PULLE
	125	2	8/3	-
Reybold Drive	138	2		
	120	2		
	12	2 1		
	8	2		
7th Street	Park	4	6/0	
Hamilton Street	500	2	8/8	
	216	1		yes
	214	3		yes
Hamilton & 3rd		6		
Hamilton & 2nd		4	-	
Hamilton & Williams		2	. 0	
Clinton Street	unit block	10	_ 8/11_	yes
	Park	3	- 1	,
	100	2	-	
	428	1	-	
Bayard & 3rd	1 720	Total Section Control of the Control		
Bayard & Canal		4	8/18	
Canal Street	Rear of School	4		
Canal & 4th	real of ochoo	1		
Canal & 3rd				
Canal & Front		3	of _	
	212		8/18	
	124	3	//	
	116	1		
Delaware Street	,10	2		
Vashington Street	unit block	. 2	4	
	232	10	8/23	
Vashington & Front	242	1	1	
Vashington & 3rd		3		
dams & 3rd		4		
dams & Henry		5	V 8/25	
efferson Street	212	3	7	
efferson & 3rd	. 212	1		
adison & 3rd		5		
ladison	211	5	W.	
	209	2	8/30	
	207	2	1	
onroe Street	300 Block	3		
onroe St. Out Fall	OUG BIOCK	7 2		

STREET NAME	LOCATION	# of CATCH BASNS	DATE SERVICE	ILID DID I F
Warfel Drive	135	2	ON LE GENAICE	
	125	1 . 2	9/6	yes
Reybold Drive	138	2	-	-
	120	2	-	
	12	2	<del></del>	420
	8	2	<del></del>	
7th Street	Park	4	1	
Hamilton Street	500	2	19/8	-
	218	1		
	214	3		-
Hamilton & 3rd	1	6		-
Hamilton & 2nd	1	4		
Hamilton & Williams		2	· 4	
Clinton Street	unit block	10	9/13	
	Park	3	- 1 -	
	100	2		
	428	1		
Bayard & 3rd		4	P	
Bayard & Canal		4	9/19	Ses
Canal Street	Rear of School	1	-/	V
Canal & 4th	riodi di Gellegi	1		
anal & 3rd		1		1
anal & Front		3	Al .	
	212	3	9/22	
	124	1	-/	
	116	2		
elaware Street	110	2	-	10.00
Vashington Street	unit block	10		yes
	232	1	9/24	,
/ashington & Front	202	3	-/-	
ashington & 3rd		4		
dams & 3rd		5		
dams & Henry		3		
fferson Street	212	1	7	
efferson & 3rd		5	9/29	
adison & 3rd		5	1	
adison	211	2	/	
	209	2		
	207	3		
onroe Street	300 Block	7		
Droe St. Out Fall	and chiquin	2		

Oct 2017

STREET NAME	LOCATION	# of CATCH BASNS	DATE SERVICE	DILIDRILLE
Warfel Drive	133	2	10/3	I ILIU PULLEI
	125	2	10/3	
Reybold Drive	138	2		
	120	2		
	12	2		
	8	2		
7th Street	Park	4		
Hamilton Street	500	2	10/6	-
	218	1	10/6	
	214	3		-
Hamilton & 3rd		6		-
Hamilton & 2nd		4		-
Hamilton & Williams		2	-/-	
Clinton Street	unit block	10		
	Park	3	10/11	
	100	2		
	428	1		
Bayard & 3rd		4		
Bayard & Canal	1	4	· k	
Canal Street	Rear of School		10/13	
anal & 4th	11001 01 001001	1	1	
anal & 3rd		1		
anal & Front	-	1 3		
	212			
	124	3	1	
	116	1	10/17	
elaware Street	710	2	-/	njes
/ashington Street	unit block	2		yes
	232	10		yes
ashington & Front	232	1		
ashington & 3rd		3	d /	yes
dams & 3rd		4	10/20	7
lams & Henry		5	//	
fferson Street	212			
fferson & 3rd	. 2.2	1		
dison & 3rd		5		
adison	211	5	16	
	The same of the sa	2	10/26	-
	209	2	1	
nroe Street	300 Block	3		
nroe St. Out Fall	AND BIOCK	7	/	
OF OUT OIL		2	0/	-

STREET NAME	LOCATION	# of CATCH DA	CMC DATE OFFICE	NOV 20.
Warfel Drive	135	2	SNS DATE SERVICE	D LID PULLED
	125	. 2	11/2	
Reybold Drive	138	2	<del></del>	
	120	2	<del></del>	-
	12	2		
	8	2	V /-	-
7th Street	Park	4	11/2	-
Hamilton Street	500	2	+	
	218	1		-
	214	3	1	
Hamilton & 3rd		6	11/9	-
Hamilton & 2nd		4	11/9	-
Hamilton & Williams	3	2	1	-
Clinton Street	unit block	10	/ /	1.0
	Park	3	<del>                                     </del>	yes
	100	2	11/11/11	
	. 428	1	11/14	
Bayard & 3rd		4	-	
Bayard & Canal		4		
Canal Streat	Rear of School	1	+	
Canal & 4th		1	10/1/27	
Canal & 3rd		1	11/17	
Canal & Front		3	-	yes
	212	3	1	
	124		1	
2-1-	116	2	11/21	
Delaware Street		. 2	11/21	
Vashington Street	unit block	10	1	
Va-Garage	232	1	1	
Vashington & Front		3	1	
Vashington & 3rd dams & 3rd		4	11/201	
dams & Henry		5	11/29	
ferson Street		3	/	
Morres 8 3	212	1	/	
offerson & 3rd		5	/	
adison & 3rd		5	al ,	
auisan	211	2	Contraction of the Contraction o	
	209	2	14/39	
April Charles	207	3	-	
onroe Street	300 Block	7		
THE SE OUT FAIL		2		

STREET NAME	LOCATION	# of CATCH BASNS DAT	E CEDVICE	Dec 201
Warfel Drive	135	2		LILI PULLED
	125	. 2	14/6	
Reybold Drive	138	2		- yes
	120	2	<del></del>	Name and Address of the Owner, where the Parket of the Owner, where the Owner, which is the Owner, where the Owner, which is the Own
	12	2		yes
	8	2		-
7th Street	Park	4	11.75	-
Hamilton Street	500	2	12/8	yes
	218	1	/	
	214	3		-
Hamilton & 3rd		6	-	-
Hamilton & 2nd	-	4	1	-
Hamilton & Williams		2	13/	
Clinton Street	unit block	10	13/13-	
	Park	3	1	-
	100	2	-/	
	428	1		
Bayard & 3rd	. 720	4		
Bayard & Canal	-	4	+ /	
Canal Street	Rear of School	1	14/19	
Canal & 4th	11001 01 0011001	1	-/-	
Canal & 3rd		1		
Canal & Front		3	1	
	212	3	1	
	124	1		
	116	2	12/02	
Delaware Street	7.0	2	-/	
Vashington Street	unit block	10	-	
	232	1	-/	
Vashington & Front		3	1	
Vashington & 3rd		4	W ,	
dams & 3rd		5	12/27	
dams & Henry		3	-/-	
efferson Street	212	1	-/	
efferson & 3rd	,	5	/	
ladison & 3rd		5	1	
ladison	211	The state of the s	-	
	209	The state of the s	-	
	207	3	12/19	
onroe Street	300 Block	7	1	
onroe St. Out Fall		2	/	

STREET NAME	LOCATION	# of CATCH BASNS	DATE SEDIMOED	TI ID OUT
Warfel Drive	135	2	DATE SEKAICED	LIU PULL
	125	. 2	1/2	-
Reybold Drive	138	2		
	120	2	/	-
	12	2		
	8	2	/	
7th Street	Park	4		
Hamilton Street	500	2	· F	
	218	1	1/4	
	214	3		
Hamilton & 3rd	2017	5		
Hamilton & 2nd	-	- 4		
Hamilton & Williams				yes
Clinton Street	unit block	2	4	-
- Maria Garage	Park	10	1/10	
	100	3		
	The state of the s	2		
Bayard & 3rd	. 428	1	<b>*</b>	
Bayerd & Canal		4	1/16	
Canal Street		4	_ /	
Canal & 4th	Rear of School	1	7	
Canal & 3rd		1		
Canal & Front		1	7	
Janai & Front		3	× ,	
	. 212	3	1/19	
	124	1		
Delevis O	116	2		
Delaware Street		. 2	A.	
Vashington Street	unit block	10	1/23	
Mark's ( )	232	1	1	
Vashington & Front		3		
Vashington & 3rd		4		
dams & 3rd		5	8	
dams & Henry		3	1/26	
efferson Street	212	1	1)	
efferson & 3rd		5		
Madison & 3rd		5	1	1000
ladison	211	2	1X	gu
	209	2	1/20	
	207	3	11	
fonroe Street	300 Block	7	/	
ionroe St. Out Fall		2	1/	

Feb 2018

STREET NAME	LOCATION	# of CATCH BAS	NS DATE SERVICED	LID PULLED
Warfel Drive	135	2	2/5	
	125	. 2	1 7	
Reybold Drive	138	2	1	
	120	2	1	
	12	2		
	8	2	1	
7th Street	Park	4	No.	
Hamilton Street	500	2	2/9	
	215	1	1	
	214	3	+	
Hamilton & 3rd		6		
Hamilton & 2nd		4	1	
Hamilton & Williams		2	1. 10	
Clinton Street	unit block	10	2/13	
	Park	3	+ 1	
	1 100	2	+ / -	
	428	THE RESERVE AND ADDRESS OF THE PARTY OF THE	1	
Bayard & 3rd	420	1	5%	
Bayard & Canal		4	2/16	
Canal Street	Page of Oct.	4		
Canal & 4th	Rear of School	1		
Canal & 3rd		1		
anal & Front		1	1 1	,
Janor & Front		3	2/21	gis
	212	3	1./1	0
	124	1		
elaware Street	116	2		
		. 2		1440
Vashington Street	unit block	10	1	yes
lmah'	232	1	2/23	
/ashington & Front		3	7	
/ashington & 3rd		4		
dams & 3rd		5		
dams & Henry		3	N	
efferson Street	212	1	2/27	
offerson & 3rd		5	401	
adison & 3rd		5		
adison	211	2		
	209	2		
	207	3		
onroe Street	300 Block	7		
onroe St. Out Fall		2		
			- V	N/S

march 2018

STREET NAME	LOCATION	# of CATCH BASN		A II ID DILLED
Wariel Drive	135	2	3/2	LILIFULLED
	125	. 2	10/0	
Reybold Drive	138	2	1	
	120	2	<del>                                     </del>	
	12	2	-	
	8	2	1	-
7th Street	Park	4	04	
Hamilton Street	500	2	3/7	
	218	1	<del>                                     </del>	
	214	3		
Hamilton & 3rd	1	6	-	
Hamilton & 2nd		4	100	
Hamilton & Williams		2	3-12	
Clinton Strest	unit block	10	/	
	Park	3	_ /	
	100	2		
	428	THE RESERVE AND ADDRESS OF THE PARTY OF THE		
Bayard & 3rd	420	1	# .	
Bayard & Canal		4	3/15	
Canal Street	Rear of School	4		
Canal & 4th	Medi di Scridol	1		
anal & 3rd		1		
anal & Front		1		
	212	3		
	124	3	· We	
	116	1	3/27	
elaware Street	110	2	711	
/ashington Street	- India to the second	. 2		
asimigrott oneel	unit block	10		
ashington & Front	232	1		
ashington & 3rd		3		
dams & 3rd		4		
dams & Henry		5		
fferson Street	040	3	4	
fferson & 3rd	212	1	ALI .	
adison & 3rd	·	5		
edison		5		
1001	211	2		
	209	2		
nroe Street	207	3		
nroe St. Out Fall	300 Block	7		
III PATOUT Fall		2	-	

5 nowston

5 NOW