

VILLAGE OF HUNTINGTON BAY

MS4 PERMIT # NYR200A29

STORMWATER MANAGEMENT PLAN (SWMP)

2018 ANNUAL UPDATE

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**Prepared by:
Jeffrey P. Vollmuth, P.E.
Village Engineer
Vollmuth & Brush
200 Blue Point Avenue
Blue Point NY 11715**

May 2018

1.0 Street Maintenance

General:

The Village of Huntington Bay owns and maintains approximately 4.9 miles of roadways. The Village roadways are tributary to subsurface leaching basins and catch basins. These basins serve the dual purpose of flood control and protection of water quality. If the stormwater system is not properly maintained the capacity of the system to control street flooding will be directly impacted. In addition the system will not function as a water quality treatment device. Each basin receives first flush runoff from the streets that would ultimately discharge to the Harbor or Bay if the basins are not functional. First flush runoff contains up to 90% of the pollutant loading from a drainage basin. The basins capture sediments, oils, greases, nutrients and bacteria.

The locations of existing catch basins and drainage areas in the Village of Huntington Bay are depicted on Sheets 1 -5 Tributary Analysis Plans dated 7/15/99 last updated 6/15/11 prepared by Vollmuth & Brush.

Catch basins and leaching pools are impacted by excessive buildup of sediment and materials which clog catch basins and ultimately decrease the leaching rates of connected structures. It is therefore important that the connected catch basins be inspected on an annual basis and serviced to remove accumulated debris. In addition the connected leaching pools require periodic maintenance inspections to remove accumulated sediments.

1.1 Implementation:

1.1 Catch Basin Inspections:

The Village of Huntington Bay will maintain an inspection record of all Village owned and/or maintained catch basins. For the purposes of this implementation, leaching pools with grate inlets will also be considered "catch basins". The inspection will occur annually during the months of March and April.

1.1.1 Inspection Method:

Each catch basin will be visually inspected for standing water or excessive floatable material. The depth below grade of standing water will be recorded on the inspection form. This inspection will also report the presence of petroleum sheen in the basin.

Each catch basin will be measured to determine accumulation of sediment. The depth below grade of the sediment will be recorded. In addition the depth below the outlet will be recorded.

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All catch basins which have sediment accumulations of more than 1/3 of the free depth between the outlet and bottom of the catch basin will be scheduled for maintenance cleaning. Maintenance cleaning should occur within 90 days of the inspection period.

Catch basins which are inspected and determined to have a significant floating layer of petroleum will be cleaned using an absorbent pad removed and disposed of prior to the next rainfall event.

Leaching catch basins/pools which are holding water more than 48 hours measured to be 1/2 of the effective depth of the leaching pool/basin will be scheduled for reinspection after (7) days of dry weather. If the standing water persists in the basin after the (7) day period it will be scheduled for a maintenance cleaning.

Maintenance of catch basins will include vacuum removal of accumulated sediment and to reestablish leaching. If the vacuum procedure removes more than 1 ft of sand below the bottom of the pool it will be replaced with clean sand to maintain the structure.

The Village is responsible for the inspection and maintenance of the following stormwater inlets and associated systems:

		Inventory Label
Village ROWs:	76 inlets	V#
Wincoma Association ROWs:	14 inlets	VW#
Baycrest Association ROWs:	14 inlets	VB#
Nathan Hale Association ROWs:	2 inlets	VN#
Bay Hills Association ROWs:	23 inlets	VBH#
Site Plan Required:	2 inlets	VA#

A total of 131 stormwater inlets will be inspected and maintained by the Village. This is a significant increase in responsibility. As a result of the decision by Village Trustees the number of basins municipally maintained increases from 69 to 131.

A total of 181 catch basin inlets were inventory located and labeled. The remaining inlets are privately maintained.

1.1.2 Reporting Method:

The catch basin inspection will be reported on the attached data sheet. The Village will maintain a record of maintenance on each catch basin within the Village maintained collection system. The maintenance record will include quantity of material removed from each basin.

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1.1.3 2017 Reporting Period Goals

Continue to monitor the catch basin labels and replace missing/damaged labels.

Continue to inspect the basins and service as required. The contractor partially complied with the reporting chart information required to properly report maintenance to the Village. The total amount of material removed was provided by the contractor and the basin ID data cleaned was reported. The material removal per basin was not reported and the cleaning data needs have improved tracking. The Village Administrator will link final payment of invoice to a properly completed form. A copy of the MS4 Inspection and Maintenance Reporting Table is attached to this report.

The (3) FABCO inserts will continue to be serviced in 2017. The Retrofit Program is designed to reduce discharge of Pathogens to the Harbor which is classified as an impaired water. (refer to Section 11). There are a total of (11) inlets which have been identified within the East Shore Road which discharge to the Harbor.

The Village will determine if there is grant money available to assist in the funding of the East Shore inlet inserts. The plan goal continues to be the installation of the (5) inserts at the Kanes Lane intersection within the 2017 reporting period if the funds are identified.

1.1.4 2017 Progress

A total of 93 inlets were inspected by the contractor during the 2017-2018 reporting period. A total of 82 units required cleaning/removal of debris. The contractor reports that a total of 61.75 cu.yds (approximately 74 tons) of material was removed. There are (38) inlets which were not inspected/serviced during the reporting period. The remaining inlets will be inspected during the 2018-2019 period. Excess material was removed and disposed of by the contractor at 110 Sand Farmingdale NY.

The contractor utilized a reporting form that was similar to the form provided by the Village Engineer which simplified the MS4 reporting.

There are currently (3) FABCO Filter Inserts installed in East Shore Road catch basins. The inserts and basins are serviced by FABCO technicians.

FABCO reports the following:

Date	V1 (lbs)	V2 (lbs)	V3 (lbs)	Filter Status
4/19/17	18	42	13	All Cartridges replaced
10/10/17	21	45	10	No replacements required

A total of 149 lbs of material were removed from the insert locations between 4/1/16 – 10/10/17 period. The cartridges which are designed to remove pathogens were replaced

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because they had reached capacity. The installations are reducing contaminate discharge to the Harbor.

The Village Trustees were unable to secure Bond funding for the installation of additional FABCO inserts in East Shore Road during the reporting period.

1.1.5 2018 Goals

Continue to encourage that the selected catch basin contractor utilize the reporting format established by the Village. The Village Highway Trustee inspects the basins pre and post cleaning. The Village will consider utilizing the services of the Village Engineer to inspect during the cleanup work as a quality control measure.

The Village Trustees have decided to move forward with installation of FABCO Catch Basin Inserts in the following locations during the 2018-2019 Reporting Period. The basins are located in the Huntington Harbor tributary area and discharge directly to the Harbor. The FABCO inserts will be fitted with filters which are specifically designed to remove Pathogens.

The following basins upgrades are planned for the 2018-2019 Reporting Period

Kanes Lane Intersection: (5) Catch Basins: Inventory ID V4, 45, V6, V7 & V176
Install new standard double catch basin
Install (3) inlet Filter (double CB)
Install (4) single filter inserts on remaining CBs

**This work requires the replacement of an existing non standard inlet which receives a major portion of the tributary flow. A standard precast double inlet will be installed and fitted with FABCO filters. There are no construction records at this location and therefore it is likely that the proposed construction work will interfere with existing utilities etc.*

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East Shore Road: Remove and Replace collapsed catch basins which have been historically paved over with asphalt. Inventory # V8 and V#
(2) Install two new catch basins
Adjust/identify discharges to basins
Install FABCO filters in each new Catch Basin

**Based on inspection of the areas it appears that the basins may receive discharges from the Pond located east on private property. The piping may require rerouting to accommodate the replacement of the basin. V8 was included in the inventory of inlets. The second inlet V# was discovered in 2017 via a hole approximately 2 inch diameter in the pavement.*

There are (5) additional stormwater inlets which discharge to the Harbor. The Inventory ID# V10, V11, V12, V14, V15 will be scheduled for installation of FABCO Filters in the next reporting period 2019-2020.

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1.2 Leaching Basin Inspections:

In cases where leaching basins receive discharge from properly maintained catch basins the potential for sediment/oil clogging of the soils which provide percolation is reduced. Catch basins however are not 100% effective in removing materials. Leaching basins therefore over time will accumulate sediment which impacts the efficiency of disposal.

1.2.1 Inspection Method:

Leaching basins shall be inspected every (3) years to determine if excessive sediment is present. The basins will be opened and measured to determine if there is standing water 48 hours after a storm event of more than 0.5 inches. Leaching pools that have more than 50% of the depth impacted by standing water will be scheduled for a reinspection after (7) days of dry weather. If the basin continues to have a standing water elevation of more than 50 % of its depth it will be scheduled for cleaning.

Cleaning of leaching pools will be accomplished using a vacuum truck to remove accumulated sediment and restore leaching.

1.2.2 Reporting Method:

The leaching basin inspection will be reported on the attached data sheet. The Village will maintain a record of maintenance on each leaching basin within the Village maintained collection system. The maintenance record will include quantity of material removed from each basin.

1.2.3 2017 Goal

The goal during the 2017 reporting period will be to inspect catch basins after a substantial rainfall event. The Village will visually inspect catch basins after a rainfall event of more than 2 inches in 24 hours. If there are inlets which are surcharged at grade the reference Inlet ID will be reported to the Village Engineer. The Village Engineer will schedule an inspection of the leaching pools connected to the inlet. If the leaching pools required service they will be scheduled for pump out. This represents a change in monitoring method that is based on focusing the maintenance effort based on leaching pool inspections in problem areas.

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1.2.4 2017 Progress

During the 2017-2018 Reporting Period a leaching issue was reported at the leaching system installed south of the Wincoma Association Gate Entrance. The system is designed to route roadway runoff through gravel to a leaching gallery. The system was constructed in 2014. The edge of the system has become clogged with roadway silt causing ponding in East Shore Road.

The Trustees authorized the Village Engineer to provide assistance to the Bay Crest Association. The Association is seeking to address the stormwater pipe which discharges at the bathing beach and at the same time address flooding.

1.2.5 2018 Goal

Excavate stone in the drainage system along the edge of East Shore Road to remove silt buildup. Install new stone with a 4 inch diameter manifold of fabric covered perforated pipe along the edge zone and route to the leaching inlet in the middle of zone.

2.0 Winter Roadway Maintenance:

The roadways within the Village are tributary to catch basins and leaching pools. In addition there are portions of the Village where roadways may overflow into the surrounding surface waters of the Bay and Harbor during significant storm events. Excessive application of sand and deicing salts to the roadways in the Village could result in water quality impacts to the Bay and Harbor. In addition, excessive sand application will increase the frequency and cost of catch basin and leaching pool maintenance.

The Village of Huntington Bay purchases and stores salt and sand in Town of Huntington facilities. There is no storage of salt or sand within the Village boundaries. The Town of Huntington is a participating member of the MS4 program and therefore it is assumed that the materials are properly stored and protected.

The Village does not own or operate salt spreaders, snow plows or sanders. The Village contracts with a vendor/contractor for winter roadway maintenance. The vendor utilizes the Village material stockpile stored at the Town of Huntington facility. The Village purchases the sand and salt from the same vendor utilized by the Town. It is in the best interest of the Village to monitor the amount of salt and sand applied by the contractor. Excessive application/use of sand and salt will increase annual maintenance costs to the Village.

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2.1.1 Implementation:

The contractor/vendor selected for the winter maintenance of the roadways within the Village will be required to confirm that he is familiar with the NYSDEC Best Management Practices regarding application of the materials.

The application of the materials to Village roadways will be monitored to determine if excessive salt or sand has been applied by the vendor/contractor.

The MSDS sheets for the salt purchased for application to Village roadways will be reviewed for contaminants of concern.

2.1.2 2017 Reporting Period Goals

The Village will continue to monitor the application rate of the material. The Town storage system and approved vendor will be continue to be utilized. The Village will implement a contractor payment condition that includes reporting of dates of application and estimated quantity of material utilized.

2.1.3 2017 Progress

The Village has continued to monitor the purchase of sand and salt and application rates. During the 2017-2017 reporting period the Village purchased 400 tons of material which was stored at the Town of Huntington Facility on Oakwood Road Huntington. The winter of 2017 included storm events through the month of March which resulted in the application of 314 cubic yards of sand and salt.

The Village continues to monitor salt and sand application rates by the contractor selected for roadway maintenance.

The 2017 goal has been partially met. The contractor submits tickets to document application rates.

2.1.4 2018 Reporting Period Goals

Continue to monitor the purchase and application rates of sand and salt in the Village. Request that the contractor provides a summary of application rates with dates and quantity rather than delivery/load tickets to the Village administrator.

3.0 Street Sweeping

The removal of accumulated sand and debris from Village Maintained roadways is important to the reduction of the pollutant loading to the catch basins and leaching systems which provide drainage and disposal of runoff. In addition, the removal of the material reduces the potential for sand and silt runoff to the Bay and Harbor Areas.

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3.1 Implementation:

The Village of Huntington Bay retains a contractor for the removal of accumulated sand and silt on the roadways. Roadways are visually inspected by the Village Highway Superintendent to determine need for removal. At a minimum all Village roadways are swept once per year.

3.2 2017 Reporting Period Goals

The Village will continue to monitor sweeping program efficiency. In addition the Contractor will be required to submit brief summary of the roadways swept, dates of sweeping and disposal quantity and tickets during the 2017 reporting period.

3.3 2017 Progress

The roadway sweeping program was delayed by the 2017-2018 winter storm pattern. Sand and salt applications occurred in the Month of March. The sweeping program will take place in May.

3.4 2018 Goal

Continue to monitor street sweeping and confirm that the 2017 Reporting Period Goal which required an increased level of reporting be completed by the contractor.

4.0 Village Vehicle Maintenance:

The Village of Huntington Bay Police vehicles are maintained at licensed facilities outside of the Village. On site maintenance of vehicles including car washing does not occur within the Village. The Village does not own or operate additional vehicles.

5.0 Dog Waste Program

The Village has adopted a local law regarding dog waste which requires the removal and disposal of feces by the pet owners. (Section 20-11). It is important to encourage residents to comply with the regulations to reduce the loading of fecal bacteria to Huntington Harbor and Huntington Bay.

5.1 2017 Reporting Period Goal

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The Village will install and maintain a dog waste bag station on East Shore Road. Continue to monitor the use of bags at the existing locations in the Village. Determine if

additional enforcement measures are necessary regarding resident's failure to pick up and properly dispose of pet waste.

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5.2 2017 Progress

The goal of installing an additional dog waste bag station on East Shore Road has not been met. The existing program which includes (4) dog waste bag stations has been successful based on the frequency of bag use at each station. In addition, residents are assisting in reload of the bag stations using bags supplied by the Village. Trustees report that residents are vigilant in picking up dog waste from their pets and no additional regulation/enforcement was proposed/required in 2017.

5.3 2018 Goal

Install a dog waste bag station on East Shore Road and continue to monitor bag use. In addition the Village will offer to purchase and supply bags for (2) additional bag stations in Wincoma Association and Bay Crest Association areas.

6.0 Goose Feeding Prohibition

It is important to limit the quantities of goose feces which are discharged to the Huntington Harbor and Huntington Bay. Runoff which contains goose waste creates additional fecal bacterial loading to the surrounding surface waters.

The Village of Huntington Bay adopted a new local law 12/13/11 (filed with NYS 12/21/11) which prohibits the feeding of geese and other waterfowl within the Village.

It should be noted that the Village does not own or control significant non roadway property. Therefore the control of geese populations within the Village requires actions by private landowners and Associations. In both cases geese droppings adversely impact the ability to utilize/enjoy private yards and Association beaches. The Village will explore successful methods of geese control that have been utilized in Huntington Harbor and Huntington Bay area of adjacent Villages. If the Village can implement the control measure along a ROW area to control geese on adjacent private property it will be considered by the Trustees.

The impact of goose droppings on surface water quality in the Village may be linked to the recent Cyanobacteria (Blue Green Algae) bloom in Willow Pond. On 4/17/17 the Suffolk County notified the Village the algae is present in Willow Pond. Human and domestic pet warning notices were posted around the pond by Suffolk County. Willow Pond is a private surface water surrounded by private property. Geese are utilizing the Pond and private yard areas year round. The droppings from the geese are impacting Pond water quality. The bacteria associated with droppings may also be contributing to the beach closures which occurred in 2016 within the Village.

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6.1 2017 Reporting Period Goals

As previously noted the Village does not own or maintain property which is significant habitat for geese. The issue is confined to private property within the Village. The Village will continue to research control measures that can be recommended to private property owners.

6.2 2017 Progress

The Village Trustees authorized the Village Engineer to assist the home owners which abut and own Willow Pond in their efforts to address the algal bloom issues. Home owners identified the presence of geese as a major contributor to water quality issues at the Pond. The homeowners have researched the potential methods of population control and submitted alternatives to the NYSDEC. The NYSDEC did not support a harvest method. The NYSDEC recommended use of dogs to control the geese. Geese are reportedly not nesting at the Pond.

The Willow Pond Homeowners installed an aeration system in the Pond and contracted with Solitude Lake Management for monthly visits. Management of Pond has included dye addition. The homeowners are working with the USDA Fish and Wildlife service to find ways to discourage resident geese populations.

7.0 Fertilizer Application

The discharge of stormwater runoff to the tidal and freshwater wetlands and surface waters located within or adjacent to the Village of Huntington Bay can adversely impact the water quality and habitat. It is therefore desirable to reduce overall fertilizer use within the Village of Huntington Bay.

The Village authorized the Cornell Cooperative Exchange IDDE inspection contract proposal which will include discussion of methods to reduce Fertilizer use on Private property. A representative from Cornell will chair a presentation at Village Hall. The Village will invite residents and Association members to the meeting.

During the 2015 reporting period Village authorized the Cornell Cooperative Exchange IDDE inspection contract proposal which includes discussion of methods to reduce Fertilizer use on Private property. A representative from Cornell will chair a presentation at Village Hall. The Village will invite residents and Association members to the meeting. The IDDE portion of the contract was completed in March 2015. The training session will be scheduled during the 2016/2017 reporting period.

7.1 2017 Reporting Period Goals

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Schedule the educational meeting with residents regarding fertilizer control. Encourage homeowners to limit use of fertilizer in proximity to surface water and roadways.

Homeowners with maintained yard areas adjacent to surface waters will be encouraged to eliminate fertilizer use within 30 ft of the edge of maintained lawn.

The Village as part of the site plan approval process will explore the feasibility of adding a landscape restriction to properties which abut surface water. A non-fertilizer dependent interface a minimum of 10 ft wide will be considered along the edge of properties adjacent to the water. The Village at the present time reviews applications adjacent to surface waters and requires that runoff be 100 % collected from landscape yards to prevent overland flow to surface water.

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7.2 2017 Progress

The Village in its review of Site Plans in waterfront areas is requesting a 10 ft strip of non-fertilizer dependent vegetation adjacent to water edge. The training course was not completed during the 2017 reporting period.

The Village posted the Suffolk County Law regarding Fertilizer application within the Village..

7.3 2018 Goals

Continue to request a non-fertilizer dependent landscape adjacent to waterfront areas. A minimum of 10 ft will be recommended/required. Post the Suffolk County Healthy Lawns information on the web site and obtain copies of the brochures for distribution at Village hall.

8.0 Illicit Discharge Detection

A comprehensive study was completed on 12/1/09 by the Cornell Cooperative Extension of Suffolk County of potential illicit discharges within the Village of Huntington Bay. The study provides locations of all outfalls within the Village. The results of the study did not identify the presence of an illicit discharge to the surface waters within/adjacent to the Village. It is important to identify and eliminate illicit discharges to the Village owned stormwater system. Discharges of contaminants to leaching pools and drains can potentially result in contamination of the Harbor and Bay.

Cornell Cooperative Exchange completed an update of the IDDE survey in 2015. The results of the study indicate that:

There were 52 outfalls previously reported in the previous IDDE Study

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The preliminary results indicate that 20 of the 2009 outfalls have been eliminated. The elimination is based on removal of the outfall or reclassification of the outfall. There were outfalls designated under the previous IDDE which were retaining wall drains which do not qualify as an outfall or potential illicit discharge source.

A total of (6) new outfalls were mapped under the study.

The total number of outfalls mapped in the Village is 38. The study did not identify discharges under dry weather conditions which qualify as an illicit discharge. The discharges appear to primarily private property stormwater discharges.

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8.1 2017 Reporting Period Goals

The IDDE study training program of residents did not occur as a result of scheduling issues at the Village Hall which was under construction during the 2016 reporting period. The Village will schedule the meeting in 2017.

8.2 2017 Progress

The training program was delayed during 2017 and did not occur.

8.3 2018 Goals

Complete the training session at the Village. In addition schedule an updated IDDE inspection of the Waterfront for early 2019-2020 Reporting Period.

9.0 Public Participation and Comment

It is important to inform and educate the Village Residents regarding the MS4 Stormwater Management Program. Residents within the Village of Huntington Bay can assist in the development of program goals which may significantly improve water quality in the Bay and Harbor. In addition, as residents become educated regarding the implementation of best management practices to improve stormwater quality it is likely that contaminant loading to the surrounding surface waters will be reduced.

It is the intent of the Village to organize an IDDE training meeting and invite representatives of each private Association to the meeting. It is hoped that this training session will serve the purpose of increased public participation in the goals of the SWMP.

9.1 2017 Reporting Period Goal

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The IDDE training session will be scheduled in 2017. This meeting will also be utilized to review the residential use of fertilizers in the Village.

9.2 2017 Progress

The IDDE training session did not occur during the reporting period. It will be scheduled for the 2018 reporting period. Stormwater Management goals is discussed at regular Village Board members. During the 2017 reporting period it was on the Agenda (3) times and discussed in response to public comment 7 times. There are 12 meetings of the

Board each year. In addition as previously discussed local residents are now responsible for ensuring dog waste bag stations are refilled. The Board authorized the Village Engineer to work with the Willow Pond homeowners to determine the best course of action to improve water quality. The Village reviewed a subdivision which required the preparation of an erosion control plan under SWPPP. The subdivision was not finalized during the reporting period. Erosion control plans are a standard requirement for all proposed Site Plans in the Village. The residents and consultants working within the Village have become familiar with the need to control erosion. The Village building inspector as part of standard operating practice requires that erosion.

9.3 2018 Goals

Schedule the training program that did not occur in 2017 to occur in 2018 reporting period. Schedule an IDDE survey update to occur during 2019.

10.0 On Site Sanitary Systems

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The Village of Huntington Bay does not contain sanitary sewers. The sanitary waste generated by residences and beach clubs within the Village discharge sanitary waste to on site septic systems. The on site septic systems are under the direct supervision of the Suffolk County Department of Health Services.

The water quality of Huntington Harbor and Bay is impacted by pathogens. The presence of E coli bacteria above NYSDEC Water Quality and SCDHS standards has resulted in closure of shell fishing and beach uses. The sources of bacteria include stormwater runoff which contains wildfowl and dog waste contamination, illicit discharges of sanitary waste and non compliant poorly operating on site sanitary systems. The Village of Huntington Bay has taken action to reduce the direct discharge of stormwater to the surrounding surface water via the enforcement of a strict on site leaching design criteria. In addition, the Village has installed roadway leaching systems in Village and Association ROWs to reduce roadway discharge to the surface water. New Code sections have been adopted to prohibit feeding of wildfowl and dog waste bag stations have been installed. Discharge mapping and the IDDE program is in place to monitor all direct discharges to the surface waters.

There is a possibility that there are existing poorly functioning on site sanitary systems within the Village which contribute to water quality issues in the surrounding surface waters. The Village requires that applications for Building Permits and Site Plans comply with SCDHS criteria regarding on site sanitary systems. The SCDHS requires that existing septic systems be inspected and repaired/replaced in accordance with the attached Memorandums. These Memorandums are summarized below:

If the CO for the house/structure was issued prior to 1973 and the applicant is increasing the number of bedrooms a SCDHS approval is required. The definition of bedrooms is provided in the attached memos.

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If the CO for the house is post 1973 and the renovation will result in more than 4 bedrooms. The only caveat is a renovation where the applicant can produce a SCDHS approval that shows the system installed was for more than 4 bedrooms.

All apartment applications in our Village require SCDHS approval.

Full house demolition and reconstruction.

The existing system needs to be moved.

These SCDHS requirements however do not address homes/structures having a CO that predates 1973, which are proposing renovations that do not increase the number of bedrooms. There are renovations of homes in the Village which meet the criteria for Site Plan approval review (20%) modification of floor area and/or Waterfront Zone that were constructed over 40 years ago that are not proposing addition of a bedroom and do not meet the SCDHS threshold criteria requiring review. These applicants are not required to establish that their existing on site sanitary system is fully operational and compliant with the current SCDHS regulations. There is a potential that the existing systems are not operating correctly and do not have sufficient capacity for the single family home or structure.

The Village Building Inspector and Administrator will document that each Site Plan applicant has received the Site Plan check list and septic system conditions. A list of properties which have been subject to the Village requirement will be maintained to judge/document the effectiveness of the provision.

A copy of the Site Plan and Steep Slope Check list including the septic provisions will be posted on the web site.

All Site Plan applications submitted to the Village of Huntington Bay must comply with the attached SCDHS Memorandum Requirements which are summarized below:

- *If the CO for the house/structure was issued prior to 1973 and the applicant is increasing the number of bedrooms a SCDHS approval is required. The definition of bedrooms is provided in the attached memos.*
- *If the CO for the house is post 1973 and the renovation will result in more than 4 bedrooms a SCDHS approval is required. The only caveat is a renovation where the applicant can produce a SCDHS approval that shows the system installed was for more than 4 bedrooms.*
- *All apartment applications in our Village require SCDHS approval.*
- *Full house demolition and reconstruction of a new home will require a SCDHS approval.*

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- *The relocation of an existing system requires SCDHS approval.*

Site Plan Applications submitted to the Village of Huntington Bay must comply with the following SWMP Criteria:

If your Certificate of Occupancy predates 1973, and your existing septic system is located within 300 ft of surface water including freshwater and tidal wetlands, and you are increasing and/or modifying/constructing sufficient floor area to trigger a Site Plan Review, you must submit a SCDHS “Certification of Existing Surface Subsurface Disposal and Water Supply Facilities for a Single Family Home” Form WWM-072. The Certificate of Inspection must be completed by a qualified professional retained by the applicant.

In the event that the Certificate of Inspection indicates that the existing sanitary system requires modifications, upgrades, repairs and/or replacement the applicant will be required to obtain a “SCDHS Certificate of Constructed Works” approval prior to issuance of a new CO.

This requirement was implemented during the 2014 Reporting Period. Applicants are proactively addressing the requirement and submitting applications for upgrade of their systems as part of the Site Plan review process.

The Village Building Inspector and Engineer have included the review of the existing sanitary systems for properties within the waterfront area. Impacted applicants have agreed to the required upgrade of their sanitary system or provided information which supports that they have a compliant system.

10.1 2017 Reporting Period Goals

Suffolk County is in the process of adopting new sanitary regulations which will require that homeowners install a new innovative system to remove nitrogen prior to discharge to the groundwater.

The Village will encourage homeowners with onsite sanitary systems within 300 ft of a surface water to consider voluntary installation of the new systems as a means of improving the environment. The Village criteria which modified/strengthened the SCDHS will continue to be applied for properties within 300 ft of a surface water.

10.2 2017 Progress

Suffolk County adopted design standards for Advanced on site residential wastewater systems. The Village Board encouraged waterfront residents to utilize the new systems and have adopted a guideline which should promote the use of the systems in the Village. The Village will reduce the 6 inch rainfall design standard to 3 inch rainfall design standard if the homeowner installs a new advanced systems sanitary system. During the

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reporting (2) Site Plans were reviewed where the applicant decided to install the advanced system. The reduction in required rainfall storage on site provides offset improvement funds for the installation of a new advanced sanitary system.

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10.3 2018 Goals

The Village will continue to enforce the modified requirements regarding septic systems which requires replacement of older systems.

The Village will continue to promote the use of the Advanced Sanitary Systems which reduce nitrogen discharges to ground water by 66%. The following criteria will be utilized:

- The proposed site plan must collect 100% of existing and proposed impervious surfaces in subgrade leaching systems.
- The design standard for drainage systems will be modified from 6 inch rainfall event to a 3 inch rainfall event.
- The applicant must agree to the installation of the new advanced system which must be approved by the Suffolk County Department of Health Services.

The Goal of this provision is to encourage homeowners/applicants to install a new advanced system and provide an incentive cost savings by reducing the stormwater leaching system size and cost.

11.0 Retrofit Program Plan Report

In compliance with the NYR 20A292 Requirements the Village of Huntington Bay prepared and submitted a Retrofit Program Plan to the NYSDEC Division of Water Permits on 9/26/14. The NYSDEC has determined that Huntington Harbor is a Pathogen Impaired Watershed.

The Retrofit Program Provided Information Regarding:

Dog Waste Runoff
Waterfowl and Geese Control
On Site Sanitary Systems
Illicit Discharges
Stormwater Management

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The following Data was provided to the NYSDEC

VHB Tributary Area to the Harbor: 144 Acres
Number of Residences within the Tributary Area: 183
Three non- Residential uses identified:

Huntington Bay Yacht Club
Wincoma Association Beach
Wincoma Association Dock

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The Report included the required Maps:

- Figure 1: Village of Huntington Bay
- Figure 2: Illicit Discharge Outfall Study
- Figure 3: Aerial Map

The NYSDEC did not issue a corrective action mitigation report.

On a proactive basis the Village will begin retrofitting the (11) inlets located in East Shore Road which discharge to the Harbor. (CB Inlet # 1, 2, 3, 4, 5, 6, 7, 9, 10, 176, 177). Inlet #177 is a roadway overflow basin that will take flow when the intersection basins (#1, #2, & #3 are overwhelmed/flooded) The inlets will be fitted with FABCO pretreatment filter inserts designed to remove pathogens from stormwater. The retrofit program is a multi year commitment and is budget dependent.

The Village authorized the installation of inserts in CB locations #1, #2, #3. The first (3) installations will be monitored to determine if there are adverse operational considerations that will be associated with the inserts.

During 2015 the NYSDEC requested a more accurate GPS location of catch basin inlets within the Village. The data submitted to the NYSDEC was not sufficient for their mapping program.

During the 2015 reporting period the Village installed (3) FABCO catch basin inserts designed to reduce Pathogen discharge to the Harbor. CB #1, #2, #3 were retrofitted with the inserts and are being monitored.

11.1 2016 Reporting Period Goals

The catch basins inlets within the Village which are tributary to the Harbor will be located using a more accurate survey quality GPS system. The data will be provided to the NYSDEC as requested.

The Village has authorized the installation of (4) additional FABCO inserts at the intersection of Kaness Lane and East Shore Road. (CB #4, #5, #6, #7).

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11.2 2017 Reporting Period Goal

The Village of Huntington Bay is committed to installing the proposed filter inserts in the Roadway Inlets which discharge to the Harbor. The 2017 Budget does not include sufficient money for the full installation at Kaness Lane. The Village Engineer will

determine if there are other revenue sources which could be utilized to offset the cost of the program.

The Village will consider moving forward with engineering design and bidding of the proposed improvements necessary to install the inserts within the Harbor tributary area. This data will be utilized to establish Budget values for stormwater improvements.

11.2 2017 Progress

The Village was unable to secure funding support for the upgrade of the catch basins in the East Shore Road drainage area during the 2017 -2018 reporting period.

The FABCO filters installed at inlets V1, V2 and V3 have been monitored. The accumulated debris has been removed and the filters have been replaced once during the reporting period. A total of 149 lbs of material was removed from the filters and new filters were installed during the reporting period.

11.3 2018 Goals

As previously discussed there are (11) inlets along East Shore Road which discharge to the Harbor. The Village installed (3) filters designed by FABCO to reduce pathogens from stormwater. The filters and basins are maintained by FABCO.

It is the goal of the Village to move forward with additional improvements in the East Shore Road corridor to reduce potential pathogen discharge to the Harbor. The Village has set a 2018 Goal of installing filter inserts at the Kanes Lane intersection with East Shore Road.

Kanes Lane Intersection: (5) Catch Basins: Inventory ID V4, 45, V6, V7 & V176
Install new standard double catch basin
Install (3) inlet Filter (double CB)
Install (4) single filter inserts on remaining CBs

**This work requires the replacement of an existing non standard inlet which receives a major portion of the tributary flow. A standard precast double inlet will be installed and fitted with FABCO filters. There are no construction records at this location and therefore it is likely that the proposed construction work will interfere with existing utilities etc.*

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East Shore Road: Remove and Replace collapsed catch basins which have been historically paved over with asphalt. Inventory # V8 and V#
(2) Install two new catch basins
Adjust/identify discharges to basins
Install FABCO filters in each new Catch Basin

**Based on inspection of the areas it appears that the basins may receive discharges from the Pond located east on private property. The piping may require rerouting to accommodate the replacement of the basin. V8 was included in the inventory of inlets. The second inlet V# was discovered in 2017 via a hole approximately 2 inch diameter in the pavement.*

The Village Engineer provided information to the Village regarding the proposed retrofit at the intersection of Kanes Land and East Shore Road

13.0 GIS Mapping of Village Conveyance System

The Village owned/maintained stormwater inlets have been previously located using GPS and establishing the Latitude and Longitude locations. The GPS data was collected for all inlets within the Village regardless of ownership. During the 2015/2016 reporting period it became evident that the GPS locations collected were not sufficiently accurate to utilize in a GIS data base. The location issues were discovered in response to NYSDEC Retrofit Program comments/requests for information. The inlets within the Harbor tributary area were not accurately located for download into the NYSDEC database. The data was updated for the Harbor Tributary Area using survey quality GPS location equipment and the data was released to the NYSDEC. Approximately 33% of the inlets have been located. All discharges were located under the IDDE Program update during the update to GIS accuracy.

13.1 2017 Reporting Period Goal

The locations of the inlets will be updated using survey level GIS equipment budget permitting during this reporting period. The updated accuracy is desirable to insure that the data can be shared with the NYSDEC for accurate GIS mapping.

13.2 2017 Progress

There was not sufficient budget money in the 2017-2018 budget to cover the proposed GIS mapping of the Village inlets. It should be noted that this is not a critical path item. The basins are GIS located but the accuracy of the GIS data is not sufficient to download into NYSDEC mapping systems.

13.3 2018 Goal

It continues to be the Goal of the Village to survey locate every inlet within the Village. The data will ultimately be useful to the NYSDEC and Suffolk County for download into their GIS systems. There is budgeted money in the 2018-2019 for stormwater inlet improvements along East Shore Road. If the improvement cost is below budget the GIS mapping may be completed.

14.0 Willow Pond

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Willow Pond is a privately owned and maintained freshwater within the Village of Huntington Bay. The 3.5 acre surface area pond is owned by (5) residents. The pond receives stormwater runoff from approximately 25 acres of residential property and during significant storm events receives overflow runoff from Wincoma Association roadways.

On 4/27/17 Suffolk County Department of Health notified the Village that Cyanobacteria (blue green algae) had been detected in the Pond at sufficient concentration to result in a required posting to protect humans and domestic pets. Skin/dermal contact with the water should be avoided and pets should be treated for potential toxic effects if they drink water from the Pond.

14.1 2017 Reporting Period Goal

As noted Willow Pond is a privately owned and maintained surface water. The Village will provide assistance to the residents in selection of potential mitigation methods. The costs of mitigation will not be a Village expense. At this time the residents are considering aeration, chemical treatment, pulse flushing and geese control during the winter months. The Village engineer will monitor the results of the mitigation and if appropriate suggest additional solutions.

14.2 2017 Progress

The Village Engineer attended a NYSDEC meeting with the Homeowners that own and abut the Pond. The alternatives were discussed at the meeting. The homeowners have moved forward with the installation of an aeration system which is currently operational. In addition, they have retained a Pond Management Company to monitor and recommend/apply treatment to the Pond. The homeowners are also working US Fish and Wildlife on a program to reduce the goose population around the Pond.

14.3 2018 Goal

The Village Engineer will continue to provide support on an as needed basis to the homeowners.

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