

**VILLAGE OF HUNTINGTON BAY
HUNTINGTON HARBOR
RETROFIT PROGRAM PLAN REPORT
Permit # NYR 20A292**

**Prepared for:
NYSDEC
Division of Water Permits 4th Floor
625 Broadway, Albany New York 12233**

**Prepared by:
Jeffrey P. Vollmuth, P.E., Village Engineer
VOLLMUTH & BRUSH
200 Blue Point Avenue
Blue Point, New York 11715
(631) 363-2683
(631) 363-2062 FAX
jeff@vollbrush.com**

September 26, 2014

1.0 Background/Introduction

The Village of Huntington Bay MS4 Stormwater Program NYSDEC Permit # NYR 20A292 contains land area which is tributary to Huntington Harbor. The NYSDEC has determined that Huntington Harbor is a Pathogen Impaired Watershed. Under MS4 requirements the Village of Huntington Bay must therefore prepare and submit a Retrofit Program Plan.

The Village of Huntington Bay encompasses an area of approximately 608 acres. Approximately 144 acres of the Village is located in the Huntington Harbor drainage basin. The Village is zoned 100% residential single family. There are no properties zoned for commercial, industrial use. All properties within the Village are served by on site sanitary systems under the jurisdiction of the Suffolk County Department of Health Services. There are no sanitary sewers or wastewater treatment plants within the Village boundary. There are no stormwater "sewers" within the Village. Roadway runoff is directed to leaching basins and in a limited number of cases there are pre-existing historical discharges connected to catch basin systems which discharge to the Harbor.

Within the Village tributary area the potential sources of pathogens in stormwater runoff includes dog/animal waste, wildfowl waste and sanitary waste from non functional systems creating illicit discharges.

Dog waste contaminated runoff

The Village of Huntington Bay adopted a Dog and Animal Waste Regulation Chapter 20-11. In addition the Village has installed Dog Waste Bag Stations at Village ROW entrances to the Beach. The Dog Waste Bag stations are utilized by Village residents as evidenced by the need to replace bags on a frequent basis. The Stormwater Management Plan (2014) goal includes an expansion of the effort with installation of additional Dog Waste Bag stations within the Private Associations at the ROW point of entrance to the Beach. Within the Harbor Drainage Basin there are two locations which will be addressed in 2014 Wincoma Association dock and Wincoma Association Beach if the private association will allow the Village installation of the bag station.

Waterfowl and Geese

The Village of Huntington Bay adopted a Waterfowl and Goose Feeding regulation Chapter 10 which prohibits feeding of waterfowl and geese in an effort to reduce the population of geese within the Village. There are no Village owned parcels which are significant habitat for geese. Within the Harbor drainage basin area there are no Village properties which are utilized by geese. There are however private property lawns which are utilized for feeding opportunities by geese and there are small ponds on private property which are potential habitat within the Harbor tributary area. The Village has discussed methods of control with residents at public meetings. The residents of Village attending Village meetings consider geese a nuisance and are independently making an effort to discourage use of their properties.

Sanitary

There are no direct wastewater discharges within the Village. If a sanitary discharge occurs within the Village it would be associated with a non functional on site sanitary system overflowing at grade and running off to the Harbor or overflow discharging to an outfall. The Illicit Discharge study completed by Cornell Cooperative Extension (2009) identified a total of 26 outfalls within the Harbor tributary area shoreline area. None of the outfalls investigated during the study were suspect illicit sanitary discharges. It should be noted that with the exception of the homes which directly front on the Harbor there is no potential pathway of sanitary waste overflow to the surface water that would not include overland flow to catch basins via roadway drainage installations that are not connected to leaching pools. Discharges to roadway gutters and catch basins are relatively easy to identify in this residential Village and there have been no reported instances of suspect discharges.

The residential properties including the Yacht Club discharge sanitary waste to on site septic systems. The systems are subject to Suffolk County Department of Health Services regulation and control. The Village sponsored an Illicit Discharge training program which discussed methods of identify illicit sanitary discharges. The Village adopted a site plan requirement designed to ensure that all applicants with properties within 150 ft of the shoreline have fully functional systems. This requirement closed a provision of the Suffolk County Department of Health requirements which allowed residents to maintain functional non updated systems.

Illicit Discharges

The Village 2014 Stormwater Management Plan includes re-inspection of the shoreline to determine if there has been a change in the status or number of outfalls. The re-inspection will include GPS location of outfalls which were not located by the Cornell Exchange program.

Stormwater Management

The Village of Huntington Bay Stormwater Management program requires that residents install on site drainage capable of disposing of a 6 inch rainfall event via leaching. This requirement is enforced as each resident applies for renovation/development of their property which includes new coverage, roof modifications etc. Ultimately this requirement will significantly reduce the quantity of stormwater discharge to the Harbor and improve quality of the discharge as redevelopment and renovations within the tributary area are Village reviewed, approved and implemented by the private homeowners.

The Village installed new stormwater drainage within the ROW tributary to the Harbor which are designed to collect 1.5 inches of runoff from the tributary roadway area. These installations have reduced the runoff towards the Harbor and improved the quality of the runoff.

2.0 Regional Stormwater Entities:

The following MS4 Entities discharge to the Huntington Harbor:

Suffolk County	20A180
NYS DOT	20A288
Town of Huntington	20A297
Huntington Bay	20A292
Lloyd Harbor	20A299

Village of Huntington Bay Contact Information:

Principal Executive Officer/Chief Elected Official

Herb Morrow

Village Mayor

631-427-2843

HMorrow@Huntingtonbay.org

Local Stormwater Public Contact:

Gail Devol

Village Administrator

631-427-2843

GDevol@Huntingtonbay.org

Stormwater Management Program (SWMP) Coordinator (Report Preparer)

Jeffrey P. Vollmuth, P.E.

Village Engineer

631-363-2683

jeff@vollbrush.com

3.0 Landuse Table

Table 1 provides the landuse data for the portion of the Village of Huntington Bay which is tributary to the Harbor. As previously noted the Village is zoned single family residential. There are no commercial or industrial zoned parcels. The total number of homes within the tributary area is estimated at 183. The average lot size is approximately 0.72 acres. The estimated total Tributary area of the Harbor Drainage Basin is 144 acres.

There are three non residential uses within the Village of Huntington Bay tributary area.

Huntington Bay Yacht Club, 95 East Shore Road Huntington, NY 11743 (0.6 acres)

Wincoma Association Beach (resident use of private beach) (2.2 acres)

Wincoma Association Dock (resident use of dock to access moored boats) (0.2 acres)

*note all area measurements are approximate based on tax map.

4.0 Maps

The following maps are attached which detail the Village of Huntington Bay drainage area tributary to the Huntington Harbor:

Figure 1: Village of Huntington Bay, Huntington Harbor Drainage Basin

This Map provides an overlay of tax lots, roadways and topography within the Village of Huntington Bay. The map has been updated based on field inspection to include catch basin locations and where appropriate potential outfall locations associated with the catch basins. The map also provides a location of the Village owned ROW areas within the Harbor drainage basin.

Figure 2: Illicit Discharge Outfall Study

The Village of Huntington Bay was mapped/inspected/ inventoried with a Study published 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 outfall locations identified within the Huntington Harbor Tributary Area are summarized in Table 2 and plotted on Figure 2 which has been modified to include the drainage divide.

Figure 3: Aerial Map

This aerial provides locations of drainage installations within the Village of Huntington Bay, Huntington Harbor drainage basin. Table 3 provides locations and descriptions of each of the installations.

Table 1
Village of Huntington Bay
Huntington Harbor Tributary Area
Landuse Table

		Notes
Total Tributary Area	144 acres	
Village Roadways	5.59 acres	12,169 lin.ft. average width 20 ft
Private Association Roadways	3.49 acres	7,607 lin.ft. average width 20 ft
Single Family Homes	183 #	Estimated based on Tax Map and Aerial
Huntington Yacht Club	0.6 acres	Village and Town Jurisdiction
Wincoma Association Dock	0.2 acres	estimated ramp and dock area
Wincoma Association Beach	2.12 acres	portion of beach club in Harbor trib Area

Average lot size 1-4 du per acre ,

0.72 acre average size of lots in the tributary area based on gross area and house count estimate

TABLE 2
VILLAGE OF HUNTINGTON BAY
HUNTINGTON HARBOR TRIBUTARY AREA
Outfall Locations, Cornell Extension 12/1/09 Illicit Discharge Study
Data summary

Outfalls located adjacent to Village of Huntington Bay ROW East Shore Road

OBJECTID	Comment	Outfall_ID	ET_X	ET_Y	ET_Len	ET_Lat	RevWtr	InspDate	Insp	Type	Dimen_inch	Material	Function	Comments	Data_Sourc	Confidence	WIN	Impaired	Compass_Be	PARCELD	POINT_X	POINT_Y	DWF_frequ	To_Monitor	Monitor_Ex	WQ_samples	Illicit_DI	ID_Comment
469	metal24[13.4]	160	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	24.0	metal	yes	sectioned and covered by rocks, pool at mouth, stream on other side of road	GPS	verified	[MWS.2a] LIS-HB-HH	yes	230	0402004000100001000	1143828.0545200000	267525.5919670000	3 of 3	no	n/a	n/a	None Suspected	Appears to be culvry draining pond, no illicit discharge suspected.
471	overmarsh[7.8]	162	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	unknown	0.0	rock	yes	water flowing over marsh, pieces of broken pipe in area	GPS	verified	[MWS.2a] LIS-HB-HH	yes	246	0402004000100009000	1143912.7580900000	267176.0116290000	3 of 3	no	n/a	n/a	None Suspected	Pipe can't be located, low probability of illicit discharge, likely groundwater.
472	streamoutfall[9-15]	163	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	12.0	concrete	yes	stream running from pond on pvt prop, water then goes under rd and flows out over marsh	GPS	verified	[MWS.2a] LIS-HB-HH	yes	228	0402004000100001000	1144050.9786100000	267011.1536910000	2 of 3	no	n/a	n/a	None Suspected	Appears to be pipe draining pond, no illicit discharge suspected.
565	metal3[62.63]	255	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	3.0	metal	yes	pipe in old rock wall below HWL lots of seepage	estimated	verified	[MWS.2a] LIS-HB-HH	yes	281	0402005000100001000	1144848.0413200000	265895.4929370000	0 of 3	no	n/a	n/a	None Suspected	
759	plastic8[1.2]	337	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	8/7/2007	M.S.	pipe	8.0	plastic	yes	mand made swale down to water from pipe	GPS	verified	[MWS.2a] LIS-HB-HH	yes	264	0400032000100001003	1144896.4523200000	265491.6521370000	1 of 3	no	n/a	n/a	None Suspected	Insufficient flow for sampling, only one event with a trickle.

Outfalls located within private property Wincoma Association

394	pipe5[13.14]	116	1141539.6273400000	269584.6928360000	-73.43098691480	40.90521889990	Huntington Harbor	5/23/2007	M.S.	pipe	5.0	fabric	possible		GPS	verified	[MWS.2a] LIS-HB-HH	yes	255	0402001000100003000	1141539.6273400000	269584.6928360000	0 of 3	no	n/a	n/a	None Suspected	
395	pipe8[15.16]	117	1141580.2184600000	269445.8984940000	-73.43084335830	40.90483723860	Huntington Harbor	5/23/2007	M.S.	pipe	8.0	metal	possible		GPS	verified	[MWS.2a] LIS-HB-HH	yes	302	0402001000100004000	1141580.2184600000	269445.8984940000	0 of 3	no	n/a	n/a	None Suspected	
396	pipe.75[17.18]	118	1141580.9553400000	269368.3789640000	-73.43084251470	40.90462446390	Huntington Harbor	5/23/2007	M.S.	pipe	0.8	metal	no	cobwebs inside pipe, probably non-functional	GPS	verified	[MWS.2a] LIS-HB-HH	yes	282	0402001000100004000	1141580.9553400000	269368.3789640000	0 of 3	no	n/a	n/a	None Suspected	
399	pvc3[13.24]	121	1141324.5618200000	268895.8989380000	-73.43178110020	40.90333225470	Huntington Harbor	5/23/2007	M.S.	pipe	3.0	pvc	possible		GPS	verified	[MWS.2a] LIS-HB-HH	yes	345	0402002000100004000	1141324.5618200000	268895.8989380000	0 of 3	no	n/a	n/a	None Suspected	
400	pvc3[25.26]	122	1141317.3403800000	268877.9547480000	-73.43180764410	40.90328313330	Huntington Harbor	5/23/2007	M.S.	pipe	3.0	pvc	possible		GPS	verified	[MWS.2a] LIS-HB-HH	yes	330	0402002000100004000	1141317.3403800000	268877.9547480000	0 of 3	no	n/a	n/a	None Suspected	
406	corrugate5[1.2]	123	1141201.1427800000	267953.3256910000	-73.43224965700	40.90074744530	Huntington Harbor	5/25/2007	M.S.	pipe	5.0	corrugated plastic	possible		GPS	verified	[MWS.2a] LIS-HB-HH	yes	234	0402002000100001500	1141201.1427800000	267953.3256910000	0 of 3	no	n/a	n/a	None Suspected	
407	ceramic3[3.4]	124	1141224.6016600000	267902.1499410000	-73.43216600210	40.90060656990	Huntington Harbor	5/25/2007	M.S.	pipe	3.0	ceramic	possible	mostly filled with concrete and plaster at mouth	GPS	verified	[MWS.2a] LIS-HB-HH	yes	311	0402002000100001001	1141224.6016600000	267902.1499410000	0 of 3	no	n/a	n/a	None Suspected	
408	ceramic4[5.6]	125	1141224.1437200000	267889.4180110000	-73.43216795500	40.90057163370	Huntington Harbor	5/25/2007	M.S.	pipe	4.0	ceramic	possible	cobwebs inside, function unlikely	GPS	verified	[MWS.2a] LIS-HB-HH	yes	290	0402002000100001001	1141224.1437200000	267889.4180110000	0 of 3	no	n/a	n/a	None Suspected	
411	corrugate5[11.12]	128	1141514.7806000000	267611.5117430000	-73.43112317470	40.89980371050	Huntington Harbor	5/25/2007	M.S.	pipe	5.0	corrugated plastic	yes		GPS	verified	[MWS.2a] LIS-HB-HH	yes	236	0402002000100003001	1141514.7806000000	267611.5117430000	0 of 3	no	n/a	n/a	None Suspected	
412	ceramic5[13.14]	129	1142006.8914900000	268264.7945570000	-73.42932778810	40.90158793870	Huntington Harbor	5/25/2007	M.S.	pipe	5.0	ceramic	possible		GPS	verified	[MWS.2a] LIS-HB-HH	yes	186	0402002000100004000	1142006.8914900000	268264.7945570000	0 of 3	no	n/a	n/a	None Suspected	
413	metal1[15.16]	130	1142025.6152100000	268268.1715180000	-73.42925989900	40.90159687240	Huntington Harbor	5/25/2007	M.S.	pipe	12.0	metal	possible	pipe goes back 10' to hole in ground, fed by smaller pipe though not connected	GPS	verified	[MWS.2a] LIS-HB-HH	yes	186	0402002000100004000	1142025.6152100000	268268.1715180000	0 of 3	no	n/a	n/a	None Suspected	
414	ceramic8[17.18]	131	1142893.7365100000	267782.1964410000	-73.42613114910	40.90024748830	Huntington Harbor	5/25/2007	M.S.	pipe	8.0	ceramic	possible	pipe partially collapsed inside and 1/4 full of sand	GPS	verified	[MWS.2a] LIS-HB-HH	yes	260	04020020003000016000	1142893.7365100000	267782.1964410000	0 of 3	no	n/a	n/a	None Suspected	
415	ceramic6[19.20]	132	1142859.6237100000	267434.2870310000	-73.42626278600	40.89929222420	Huntington Harbor	5/25/2007	M.S.	pipe	6.0	ceramic	possible	below MHW, sediment buildup inside pipe	GPS	verified	[MWS.2a] LIS-HB-HH	yes	277	04020020003000014000	1142859.6237100000	267434.2870310000	0 of 3	no	n/a	n/a	None Suspected	
416	pvc2[21.22]	133	1142929.1367000000	267303.3683300000	-73.42601444750	40.89893265030	Huntington Harbor	5/25/2007	M.S.	pipe	2.0	pvc	possible		GPS	verified	[MWS.2a] LIS-HB-HH	yes	278	04020020003000014000	1142929.1367000000	267303.3683300000	0 of 3	no	n/a	n/a	None Suspected	

Outfalls located within Huntington Yacht Club Property

473	bulkheadseep[16.17]	164	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	unknown	0.0	unknown	yes	water seeping from N side of bulkhead and running down beach, standing water in CB	GPS	verified	[MWS.2a] LIS-HB-HH	yes	262	0400032000400001000	1144256.1406100000	266630.0094400000	2 of 3	no	n/a	n/a	None Suspected	Likely to be tidal back-flow through bulkhead, no illicit discharge suspected.
500	pvc4[46.47]	191	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	4.0	pvc	possible	pipe in bulkhead with angled down elbow at end	GPS	verified	[MWS.2a] LIS-HB-HH	yes	260	0400032000400001000	1144319.2198800000	266375.3367210000	0 of 3	no	n/a	n/a	None Suspected	
501	pvc4[48.49]	192	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	4.0	pvc	possible	pipe in bulkhead with angled down elbow at end	GPS	verified	[MWS.2a] LIS-HB-HH	yes	346	0400032000400001000	1144335.0170900000	266398.4462500000	0 of 3	no	n/a	n/a	None Suspected	
502	pvc5[50.51]	193	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	4.0	pvc	possible	pipe in bulkhead	GPS	verified	[MWS.2a] LIS-HB-HH	yes	355	0400032000400001000	1144323.4452600000	266398.6106250000	0 of 3	no	n/a	n/a	None Suspected	
503	pvc14[60.61]	194	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	14.0	pvc	yes	pipe coming out from under parking lot	GPS	verified	[MWS.2a] LIS-HB-HH	yes	220	0400032000600002000	1144545.2542000000	266362.7624720000	0 of 3	no	n/a	n/a	None Suspected	Only a slight drip, insufficient flow to sample.
504	metal6[52.53]	195	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	6.0	metal	possible	pipe in bulkhead partially collapsed	estimated	verified	[MWS.2a] LIS-HB-HH	yes	355	0402005000100001000	1144301.9682700000	266369.3464520000	0 of 3	no	n/a	n/a	None Suspected	
505	hose1[54.55]	196	0.0000000000	0.0000000000	0.0000000000	0.0000000000	Huntington Harbor	7/10/2007	M.S.	pipe	1.0	rubber	possible	about 6' of hose coming out of bulkhead near top	estimated	verified	[MWS.2a] LIS-HB-HH	yes	355	0400032000400001000	1144265.3646700000	266347.1842190000	0 of 3	no	n/a	n/a	None Suspected	

Table 3
VILLAGE OF HUNTINGTON BAY
Drainage Inventory Huntington Harbor Tributary Area

CB#	Location	Latitude	Longitude	Notes
1	86 East Shore Road	40 53.6369 N	73 25.1335 W	May be connected to Outfall #337 (8" drain)
2	86 East Shore Road	40 53.6369 N	73 25.1335 W	May be connected to Outfall #337 (8" drain)
3	86 East Shore Road	40 53.6369 N	73 25.1335 W	May be connected to Outfall #337 (8" drain)
	East Shore Road overflow at curb break and steps (guard rail open)	40 53.8917 N	73 25.3023 W	
4	SE intersection of East Shore Road and Kanes Lane	40 53.7779 N	73 25.2078 W	May be connected to Outfall #194 (14 inch PVC)
5	NE intersection of East Shore Road and Kanes Lane	40 53.7779 N	73 25.2078 W	May be connected to Outfall #194 (14 inch PVC)
6	SW intersection of East Shore Road and Kanes Lane	40 53.7779 N	73 25.2078 W	May be connected to Outfall #194 (14 inch PVC)
7	NW intersection of East Shore Road and Kanes Lane	40 53.7779 N	73 25.2078 W	May be connected to Outfall #194 (14 inch PVC)
8	138 East Shore Road Curb Inlet partial paved over	40 53.9295N	73 25.3380 W	sound of water running prior reported pond discharge May be connected to Outfall #162 unk size or Outfall # 160 24 inch diameter CMP (investigate)
9	146 East Shore Road (East Side)	40 53.966 N	73 25.344 W	Drains to Seawall discharge 10 Inch pipe
10	146 East Shore Road (West Side)	40 53.966 N	73 25.344 W	Drains to Seawall discharge 10 Inch pipe
11	158 East Shore Road (East Side)	40 53.9660 N	73 25.4339 W	Discharges to leaching bioswale east side of road
12	158 East Shore Road (West Side)	40 53.9660 N	73 25.4339 W	Discharges to leaching bioswale east side of road
13	180 East Shore Road (West Side)	40 54.0460 N	73 25.5723 W	needs a service and does not appear to discharge to outfall
	184 -190 East Shore Road Leaching Installation	40 54.0856 N	73 25.6083 W	Does not discharge to Harbor
14	192-194 East Shore Road (East Side)	40 54.0963 N	73 25.6436 W	May be connected to outfall 129 or 130 (5 inch & 12 inch)
15	200 East Shore Road (West Side)	40 54.1023 N	73 25.6932 W	May be connected to outfall 129 or 130 (5 inch & 12 inch)
16	6 Woodland Drive (West Side)	40 54.1249 N	73 25.7241 W	Leaching System connected
17	6 Woodland Drive (West Side)	40 54.1249 N	73 25.7241 W	Leaching System connected
18	Intersection of Woodland & Gromley Lane	40 54.1261 N	73 25.8048 W	Leaching System connection
19	Intersection of Woodland & Gromley Lane	40 54.1261 N	73 25.8048 W	Round inlet in center island, leaching system connected
20	17 Woodland Drive (East Side)	40 54.0843 N	73 25.8261 W	Leaching System Connected
21	19 Woodland Heckscher Drive& Woodland Drive (East Side)	40 54.0741 N	73 25.8267 W	Leaching System Connected
	Wincoma Association Docks and Ramp	40 54.008 N	73 25.916 W	End of road launch ramp drainage to Harbor
22	27 Heckscher Drive at Gormley Intersection	40 54.1783 N	73 25.8593 W	Leaching System Connected, Round Inlet
23	32 Heckscher Drive	40 54.2051 N	73 25.8425 W	Leaching System Connected
24	32 Heckscher Drive	40 54.2051 N	73 25.8425 W	Leaching System Connected
25	330 Bay Avenue	40 54.1910 N	73 25.7759 W	Leaching System Connected
26	330 Bay Avenue	40 54.1910 N	73 25.7759 W	Leaching System Connected
27	311 Bay Avenue (East Side adjacent to pillars)	40 54.1674 N	73 25.6965 W	Leaching System Connected
28	311 Bay Avenue at intersection with Wincoma	40 54.1674 N	73 25.6965 W	Leaching System Connected
29	Wincoma Drive west of Bay Intersection (north side)	40 54.1622 N	73 25.7063 W	Leaching System Connected
30	Wincoma Drive west of Bay Intersection (south side)	40 54.1622 N	73 25.7063 W	Leaching System Connected
31	184 East Shore Road (Habor Hill Road Side)	40 54.0902 N	73 25.5616 W	Leaching System Connected
32	9 Harbor Hill Road (middle of road round inlet)	40 54.0830 N	73 25.4741 W	Leaching System Connected
33	9 Harbor Hill Road (small rectangular inlet)	40 54.0830 N	73 25.4741 W	Connected to round inlet #32, Leaching System Connected
34	14 Castle Harbor Road	40 53.737 N	73 25.023 W	Discharges to Valley which runs north to Kanes Lane to CB 4/5/6
35	219 Bay Avenue	40 54.179 N	73 25.758 W	Leaching System Connected
36	30 Heckscher Drive	40 54.186 N	73 25.864 W	Leaching System Connected
37	30 Heckscher Drive	40 54.186 N	73 25.864 W	Leaching System Connected
38	Intersection of NS of island of Woodland and Heckscher Island	40 54.069 N	73 25.843 W	Leaching System Connected
39	184 East Shore Road (Habor Hill Road Side)	40 54.0902 N	73 25.5616 W	This basin is connected with CB 31 to leaching system
40	299 Bay Avenue (at intersection with Harbor View Drive)	40 54.166 N	73 25.625 W	Leaching System Connected
41	299 Bay Avenue (at intersection with Harbor View Drive)	40 54.166 N	73 25.625 W	Leaching System Connected
42	299 Bay Avenue (at intersection with Harbor View Drive)	40 54.166 N	73 25.625 W	Leaching System Connected
43	Castle Harbor Road (adjacent to #2 Castle Harbor Road)	40 53.675 N	73 24.972 W	Discharges to Valley which runs north to Kanes Lane to CB 4/5/6
44	Castle Harbor Road (adjacent to #2 Castle Harbor Road)	40 53.675 N	73 24.972 W	Discharges to Valley which runs north to Kanes Lane to CB 4/5/6

* Note when catch basins are within 20 ft of each other the same position data is utilized for location.
Inspection by J. Vollmuth, P. E. 9/22/14 and QC check Scott Delisle 9/26/14

FIGURE 2A
WINCOMA BEACH CLUB HARBOR FRONTAGE



FIGURE 2B
WINCOMA ASSOCIATION DOCK ACCESS TO MOORINGS



FIGURE 2C
HUNTINGTON YACHT CLUB



FIGURE 3
VILLAGE OF HUNTINGTON BAY
HUNTINGTON HARBOR DRAINAGE BASIN STUDY



CB #23 & 24
CB #25 & 26
CB #22
CB #18 & 19
CB #20
CB #21
CB #35
CB #27 & 28
CB #29 & 30
CB #16 & 17
CB #38
CB #15
CB #14
Wincoma
CB #40, 41 & 42
CB #31 & 39
CB #13

CB #11 & 12
CB #9 & 10
CB #8

East Shore Road Overflow

CB #4, 5, 6 & 7

CB #34

CB #43 & 44

CB #1, 2 & 3

Wincoma Docks & Ramp

Huntington Bay

© 2014 Google

Google earth

Imagery Date: 6/19/2014 40° 53.981' N 73° 25.365' W elev 13 ft eye alt 7752 ft

1994

Inlet Pt 1738 ft