



# EAST OF HUDSON WATERSHED CORPORATION

## 2020 Annual Report



\*Multiple Pond System, Kent-MB-601 Montrose Drive

Date: March 2021



# EAST OF HUDSON WATERSHED CORPORATION

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## 1. INTRODUCTION

This Annual Report has been prepared to provide a summary of the completed, current, and upcoming activities; and financial status; of the East of Hudson Watershed Corporation (EOHWC). This Annual Report also includes limited information about the stormwater retrofit projects (SRPs) completed by the members prior to the formation of EOHWC. It is submitted in fulfillment of the requirements of Part IX.A.5.b of the May 1, 2010, SPDES General Permit for Stormwater Discharges from MS4's (MS4 Permit).

The EOHWC was formed on October 19, 2011 under Section 1411 of the New York State Not-For-Profit Corporation Law. The EOHWC is operated for charitable purposes, has received federal tax exemption as a 501(c)(3), and was established to administer, coordinate, and implement the East of Hudson (EOH) regional stormwater retrofit plans. The regional stormwater retrofit plans were developed as a response to the heightened phosphorus removal requirements of the New York State Department of Environmental Conservation (NYSDEC) General Permit GP-0-08-002 Municipal Separate Storm Sewer Systems Permit (MS4 General Permit).

The MS4 General Permit became effective on May 1, 2008; and was replaced by GP-0-10-002 which became effective on May 1, 2010 and expired on April 30, 2015. The GP-0-15-003 permit was issued in April 2015 and became effective on May 1, 2015. GP-0-15-003 is a two (2) year interim permit intended to cover discharges of stormwater to surface waters of the State from small MS4s.

As issued, GP-0-15-003 contains only conforming changes, such as a new general permit identification number, a two (2) year term, and updated references to the SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-15-002) and Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-12-001). Throughout this Annual Report, reference is made to Year 1

(2010), Year 2 (2011), Year 3 (2012), Year 4 (2013), Year 5 (2014-2016), Year 6(2017), Year 7 (2018), Year 8 (2019), and Year 9 (2020).

The EOHWC is a Regional Stormwater Entity (RSE) with 19 members (18 municipalities and one County), operating in 18 municipalities and three Counties in the EOH watershed. The EOHWC is governed by a Board of Directors, composed of the chief elected official of each member. The chief elected official may delegate authority to another municipal employee. Each member has passed resolutions to join the EOHWC and authorize implementation of the regional stormwater retrofit plans by the EOHWC on behalf of each member.

## **2. ORGANIZATION**

Daily operations of the EOHWC are completed by the supporting staff. The staff employees for the calendar year 2020 were:

1. Director of Engineering: Kevin Fitzpatrick, P.E. (Start Date: March 4, 2013)
2. Comptroller: Joanne Tavino (Start date: August 12, 2014)
3. Office Manager: Linda Matera (Start Date: September 29, 2014)
4. Watershed Planner: Cory Lapidus (Start Date: September 28, 2020)

The Board Members which served through 2020 are:

1. Town of Bedford: Chris Burdick (Vice President)
2. Village of Brewster: James Schoenig
3. Town of Carmel: Kenneth Schmitt
4. Town of Cortlandt: Linda Puglisi
5. Town of Kent: Maureen Fleming
6. Town of Lewisboro: Peter Parsons
7. Village of Mount Kisco: Gina Picinich
8. Town of New Castle: Robert Greenstein
9. Town of North Castle: Michael Schiliro
10. Town of North Salem: Warren Lucas (Treasurer)
11. Town of Patterson: Richard Williams (President)
12. Town of Pawling: James Schmitt
13. Village of Pawling: Robert Liffland
  - a. Lauri Taylor
14. Putnam County: Mary Ellen O'Dell
15. Town of Putnam Valley: Samuel Oliverio
16. Town of Pound Ridge: Kevin Hansan
17. Town of Somers: Rick Morrissey
18. Town of Southeast: Tony Hay
19. Town of Yorktown: Matthew Slater

### **3. PURPOSE**

The EOHWC was established as a regional stormwater entity under Part IV.B of the MS4 Permit to administer, coordinate and implement the East of Hudson regional stormwater retrofit projects (SRPs) with funding made available by the NYCDEP, Westchester County, and Putnam County. Through the EOHWC, the member

municipalities are collectively achieving compliance with their SRP requirements (a.k.a. “bubble compliance”), regardless of the physical location of each retrofit.

The Year 10 SRPs for each member municipality were identified by the EOHWC staff and a 5-Year Work Plan prepared for and provided by the East of Hudson Watershed Coalition.



**Catch Basin Insert Installation:  
NS-MU-701**

The Year 10 work plan was submitted to and approved by the New York State Department of Environmental Conservation (NYSDEC). The SRPs are phosphorus reducing stormwater retrofit projects designed to attain the ten-year phosphorus removal requirement established by the NYSDEC. Construction contracts for those projects currently in



**Pocket Wetland, in construction:  
Kent-MB-602**

design are expected to be executed between calendar years 2019-2022, depending on several factors including design progress, municipal review and acceptance, and easement negotiations.

The individual municipalities began stormwater retrofit projects in Year 1, and continued as individual municipalities in Year 2. EOHWC began to manage, administer, and fund stormwater retrofit projects in Year 3; and continued this role through Year 7.

#### 4. STORMWATER RETROFIT PLAN SUMMARY

The NYSDEC has confirmed and approved the completion of projects totaling 619.0 kg/yr of phosphorus removal. The Actual Phosphorus Reduction for Years 1 and 2 is based on documentation provided by the individual municipalities to EOHWC, and submitted to the NYSDEC by EOHWC, for SRPs completed by each member municipality prior to the formation of the EOHWC. The Year 1 and 2



**Pond construction: PC-MB-701**

submittals have been updated as Year 2 projects are completed by the member

municipality and/or EOHWC. The Year 2 Phosphorus Reduction value is calculated from Year 2 SRPs that had been started by a member municipality, and were either completed by the member municipality or transferred to EOHWC to complete design and construction. For the Year 2 SRPs completed by the member municipalities, certification documents have been obtained from the member municipality and submitted to the NYSDEC. All projects which were actively worked on by the EOHWC during the Calendar Year of 2020 can be found within this section.

Table 1: Stormwater Retrofit Program Summary

MS4	Ten Year Phosphorus Reduction Requirement (kg/yr)	Actual Phosphorus Reduction (kg/yr)							Estimated Phosphorus Reduction (kg/yr)					Estimated Totals (kg/yr) (1)		
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 4 (1)	Year 5 (1)	Year 6 (1)	Year 7 (1)	Year 8 (1)	Year 9 (1)	Total Reduction	Remaining Reduction Requirement
Bedford	64.4	9.11	7.29	5.34	3.65	11.29	-	1.99	-	-	-	-	-	-	38.7	25.7
Brewster	18.4	-	-	83.60	-	-	-	-	-	-	-	-	-	-	83.6	0.0
Carmel	144.0	3.68	7.52	14.44	3.00	-	-	-	-	-	4.22	10.86	11.57	68.41	43.7	100.3
Cortlandt	23.2	-	-	3.20	-	-	-	-	-	-	-	-	-	-	3.2	20.0
Kent	67.2	9.56	4.67	14.50	13.74	-	19.90	16.10	-	-	-	-	23.08	4.3	78.5	0.0
Lewisboro	71.0	4.03	-	-	22.89	3.60	-	-	-	-	-	6.80	31.21	-	37.3	33.7
Mount Kisco	37.4	0.81	-	-	10.85	-	-	-	8.50	-	15.21	-	-	-	35.4	2.0
New Castle	50.2	-	-	-	-	-	7.70	-	14.11	33.00	21.90	21.9	-	-	76.7	0.0
North Castle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	2.0
North Salem	38.2	-	7.12	-	9.80	10.91	-	3.96	-	-	31.40	6.42	-	11.4	69.6	0.0
Patterson	34.4	3.31	1.62	10.36	-	4.38	26.23	-	1.80	-	19.80	7.63	-	-	75.1	0.0
Pound Ridge	19.0	-	-	-	-	-	-	-	-	-	0.40	3.70	-	-	4.1	14.9
Putnam Valley	2.0	-	7.90	-	-	-	-	-	-	-	-	-	-	-	7.9	0.0
Town of Pawling	7.0	-	1.75	-	-	5.31	-	-	-	-	-	4.66	-	-	11.7	0.0
Village of Pawling	8.6	-	0.03	-	-	-	-	-	-	-	-	9.10	-	1.4	9.1	0.0
Somers	100.0	10.41	1.45	15.97	24.20	2.93	-	8.78	-	-	-	12.90	-	39.28	76.6	23.4
Southeast	62.2	8.83	80.87	21.33	-	-	-	-	-	-	5.59	9.14	86.7	-	125.8	0.0
Yorktown	108.0	0.07	-	19.84	-	-	-	-	-	-	7.91	-	-	-	27.8	80.2
Putnam County	61.8	1.86	-	20.38	5.45	-	-	21.44	-	-	-	-	-	5.12	-	49.1
<b>Total</b>	<b>919.0</b>	<b>51.67</b>	<b>120.22</b>	<b>208.96</b>	<b>93.58</b>	<b>38.42</b>	<b>46.13</b>	<b>59.97</b>	<b>10.30</b>	<b>14.11</b>	<b>117.53</b>	<b>93.11</b>	<b>179.58</b>	<b>124.79</b>	<b>1158.36</b>	<b>0.0</b>

Table Notes:

- (1) The above table reflects an accepted phosphorus reduction of 619.0 kg/yr. .
- (2) Sources: “Stormwater Retrofit Program” by Putnam County MS4 Coordinating Committee, dated December 31, 2009; and “Regional Stormwater Implementation Plan”, by CKWIC, August 2010.
- (3) Sources: “Summary of Completed Retrofit Projects: Project Years 1 & 2” and “Summary of Completed Retrofit Projects: Project Years 3 & 4” by EOHWC and dated 10/31/2014; email from Robert Capowski on 12/9 and 12/11/2014.
- (4) Estimated values are from information provided by engineering consultants providing professional services under EOHWC contracts; from some municipalities with NYSDEC grants for stormwater retrofit projects; and conceptual design from EOHWC. The actual phosphorus removal will be determined based on the submission of Record Documents stamped by a Professional Engineer to the NYSDEC.
- (5) Total Reduction value shown is expected to decrease as SRP evaluation and design progresses.

The following nomenclature is used in this Annual Report to describe project status:

1. **Cancelled:** SRP was cancelled by EOHWC prior to or during design. Typical reasons for cancelling a SRP include: low phosphorus removal, located on private property, site constraints preventing proper design, permitting complexity, and/or cost.
2. **Postponed:** The SRP was submitted to and evaluated by EOHWC. Based on the current program parameters and progress, these projects will be evaluated for inclusion as part of Years 6-10.
3. **Complete:** SRP has been constructed however the project has not been completely removed from our tracking system. This occurs when a project still requires stabilizing or outstanding payments remain.
4. **Closed:** The SRP is no longer being tracked by EOHWC for project closeout.

### **EOHWC Project Summaries**

**B-MU-701 (NYCDEP Commuter Lot – Year 7)** – Located in the Town of Bedford, the proposed SRP includes the installation of catch basin inserts on NYCDEP property. This project was completed in 2020.

**Carmel-CF-601 (Eleanor Drive – Year 6)** – Located in the Town of Carmel, the proposed SRP includes the stabilization of an eroded channel on NYCDEP property. This project is currently in design and construction is expected to be completed in early 2021.

**Carmel-CF-703 (Woodland Trail – Year 7)** – Located in the Town of Carmel, the proposed SRP includes the stabilization of a classified stream, along with the installation of a filter chamber. The project is in design and is expected to go to construction in 2021.

**Carmel-CF-801 (Fulmar Road Elementary – Year 8)** – Located in the Town of Carmel, the proposed SRP includes the installation of a bioretention cell on School property in the Mahopac Central School District. The project is fully designed and is expected to go to construction in the summer of 2021.

**Carmel-CF-802 (Fulmar Road Elementary – Year 8)** – Located in the Town of Carmel, the proposed SRP includes the installation of a bioretention cell on School property in the Mahopac Central School District. The project is fully designed and is expected to go to construction in the summer of 2021.

**Carmel-CF-901 (Arborview Rd A – Year 9)** – Located in the Town of Carmel, the proposed SRP includes retrofitting an existing detention pond on Town property. The project is in design and is expected to go to construction in 2021

**Carmel-CF-902 (Arborview Rd B – Year 9)** – Located in the Town of Carmel, the proposed SRP includes retrofitting an existing detention pond on Town property. The project is in design and is expected to go to construction in 2021

**Carmel-GL-815 (Ridge Rd – Year 8)** – Located in the Town of Carmel, the proposed SRP includes the installation of a filter chamber within the public right of way. The project is in design and is expected to be constructed in 2021.

**Kent-BC-830 (Rambler Rd – Year 8)** – Located in the Town of Kent, the proposed SRP includes the installation of a filter chamber within the public right of way. The project is in design and is expected to be constructed in 2021.

**Kent-CF-845 (Palmer Lake – Year 8)** – Located in the Town of Kent, the proposed SRP includes the installation of subsurface infiltration on private property at the Lost Lake Community parking lot. The project is being reevaluated for a new retrofit practice, and is expected to be constructed in 2021.

**Kent-MB-601 (Montrose Drive – Year 6)** – Located in the Town of Kent, the proposed SRP includes the construction of a multiple pond system on Town property. The project was constructed in 2020.

**L-CR-701 (Lewisboro Elementary School – Year 7)** – Located in the Town of Lewisboro, the proposed SRP includes the installation of bioretention cells on school property. The project is currently in design and is expected to complete construction in 2021.

**L-CR-803 (Lewisboro Town Park – Year 8)** – Located in the Town of Lewisboro, the proposed SRP includes the installation of subsurface infiltration on town property. The project is currently in design and is expected to complete construction in 2021.

**L-CR-805 (Salem Hill Road – Year 8)** – Located in the Town of Lewisboro, the proposed SRP includes the installation of a filter chamber on town property. The project is currently in design and is expected to complete construction in 2021.

**L-MU-715 (Goldens Bridge Train Station – Year 7)** – Located in the Town of Lewisboro, the proposed SRP includes the installation of catch basin inserts on NYCDEP property. The project is currently in design and expected to go to construction in early 2021.

**MK-NC-22 (Leonard Park – Year 4)** – Located in the Village of Mount Kisco, the proposed SRPs consist of dry swales and surface sand filters. This project is currently in construction.

**MK-NC-601 (Village Hall – Year 6)** – Located in the Village of Mt. Kisco, the proposed project includes the installation of catch basin inserts on Village property. The project began installation in late 2020, and will be completed in early 2021.

**MK-NC-602 (Mt. Kisco Commons – Year 6)** – Located in the Village of Mt. Kisco, the proposed project includes the installation of catch basin inserts on private property. This project is currently in design and construction expected to be completed in 2021.

**NewC-NCR-33A (Burden Preserve – Year 5)** – Located in the Town of New Castle, the proposed SRP includes channel stabilization on public property. This project is currently in design and construction expected to be completed in 2021.

**NewC-NCR-33B (Burden Preserve – Year 5)** – Located in the Town of New Castle, the proposed SRP includes channel stabilization on public property. This project is currently in design and construction expected to be completed in 2021.

**NewC-NCR-801 (Courmel Rd – Year 8)** – Located in the Town of New Castle, the proposed SRP is for the stabilization of two heavily eroded channels on NYCDEP property, with installation of filter chambers to address water quality. The project is currently in design and is expected to be constructed in 2021.

**NS-EB-901 (Vail’s Grove – Year 9)** – Located in the Town of North Salem, the project involves the installation of catch basin filters across private property. The project is in the design phase and construction is estimated to occur in 2021.

**NS-MU-601 (Keeler Lane – Year 6)** – Located in the Town of North Salem, the project involves the stabilization of a heavily eroded channel across multiple properties. The project is in the design phase and construction is estimated to occur in 2021.

**NS-MU-701 (Croton Falls Train Station – Year 7)** – Located in the Town of North Salem, the project involves the installation of catch basin inserts on NYCDEP property. The project was completed in 2020.

**NS-MU-702 (Purdys’ Train Station – Year 7)** – Located in the Town of North Salem, the project involves the installation of catch basin inserts on NYCDEP property. The project is currently in design and expected to go to construction in early 2021.

**Pat-EB-09-03B (Veteran’s Memorial Park – Year 4)** – Located in the Town of Patterson, the proposed SRP is an organic filter. Construction was completed in 2020.

**Pat-EB-601 (Valley Rd – Year 6)** – Located in the Town of Patterson, the proposed SRP is for the installation of a multiple pond system on Town owned property. The project is currently being re-evaluated for expansion on to private property by the Town and design engineer. The project has been postponed.

**Pat-EB-602 (Dayton Rd – Year 6)** – Located in the Town of Patterson, the proposed SRP is for channel stabilization on Town property. The project was completed in 2020.

**Pat-EB-603 (Lost Lake – Year 6)** – Located in the Town of Patterson, the proposed SRP is for channel stabilization on private property. The project was completed in 2020.

**Pat-EB-701 (Patterson Train Station – Year 7)** – Located in the Town of Patterson, the project involves the installation of catch basin inserts on municipal and MTA property. The project is currently in design and expected to go to construction in early 2021.

**PR-CR-601 (Cross Rd – Year 6)** – Located in the Town of Pound Ridge, the proposed SRP is for the removal of impervious cover within the right of way. The project is in design and will be constructed in 2021.

**PR-CR-701 (Parkview Drive – Year 7)** – Located in the Village of Pound Ridge, the proposed project is for the stabilization of an eroded channel on private property. The project is currently in design and is expected to be constructed in 2021.

**PR-CR-702 (Dingee Rd – Year 7)** – Located in the Village of Pound Ridge, the proposed project is for the stabilization of an eroded channel on private property. The project has been postponed due to installation issues on private property.

**S-CF-901 (Greenbriar Subdivision – Year 9)** – Located in the Town of Somers, the project involves the installation of catch basin filters across private property. The project is in the design phase and construction is estimated to occur in 2021.

**S-MU-915 (Bluestone Peak Academy Phase 1 – Year 9)** – Located in the Town of Somers, the project involves the redevelopment of an existing site, through a private property owner. The project is in the design phase and construction is estimated to occur in 2021.

**S-MU-916 (Bluestone Peak Academy Phase 2 – Year 9)** – Located in the Town of Somers, the project involves the redevelopment of an existing site, through a private property owner. The project is in the design phase and construction is estimated to occur in 2022.

**S-MU-917 (Bluestone Peak Academy Phase 3 – Year 9)** – Located in the Town of Somers, the project involves the redevelopment of an existing site, through a private property owner. The project is in the design phase and construction is estimated to occur in 2023.

**SE-DI-601 (Brewster Hill Rd – Year 6)** – Located in the Town of Southeast, the proposed retrofit originally called for the installation of a pocket pond system on NYCDEP property. It has been revised to provide a filter chamber installation on a commercial private property. The project was cancelled due to installation issues.

**SE-DI-701 (Southeast Train Station – Year 7)** – Located in the Town of Southeast, the proposed retrofit is for the installation of catch basin inserts on MTA property. The project is in design and is expected to go to construction in 2021.

**SE-EB-715 (Scolpino Park – Year 7)** – Located in the Town of Southeast, the proposed SRP is for the installation of permeable pavement and a bioretention area within a Town park. The project will go construction in 2021.

**SE-DI-815 (Eagle’s Ridge Subdivision – Year 8)** – Located in the Town of Southeast, the project involves stabilization of heavily eroded channels and the installation of water quality treatment components (Wet ED Pond) on private property to treat runoff from the existing subdivision. The project is in design and construction is expected in 2021.

## **5. FUNDING SOURCES AND FINANCIAL SUMMARY**

The EOHWC funding has been and will be provided directly or indirectly by the New York City Department of Environmental Protection (NYCDEP). The legal structure of the EOHWC allows transfer of funds from the NYCDEP, Westchester County, and Putnam County to the EOHWC for implementing the SRPs. There are four primary funding sources for the design, permitting, and construction of SRPs:

1. NYCDEP from 2010 Water Supply Permit (WSP): \$15.5 million
2. NYCDEP from 2007 Filtration Avoidance Determination (FAD): \$4.5 million
3. Westchester County from 1997 Memorandum of Agreement (MOA): \$10 million
4. Putnam County from 1997 Memorandum of Agreement (MOA): \$8.2 million

The Westchester County MOA funds were transferred to the EOHWC on June 20, 2012. An initial transfer of \$250,000 of the Putnam County MOA funds to the EOHWC was completed in April 2012. A partial transfer (\$7,447,815.35) of the Putnam County MOA funds to the EOHWC was completed on June 15, 2012. The final transfer (\$75,981.11) of the Putnam County MOA funds was transferred to the EOHWC on

October 22, 2012. The remainders of the Putnam County MOA funds were used by Putnam County to provide funding for Year 2 stormwater retrofit projects. The transfers were authorized by Intermunicipal Agreements between the County and the municipalities located in each County.

The NYCDEP Funding Agreement was registered on July 18, 2013. From the Funding Agreement, an initial disbursement of \$10,000,000 was transferred to EOHWC on September 23, 2013 from the Water Supply Permit (WSP) allocation. The FAD funding in the amount of \$4,500,000 was transferred to the EOHWC on March 21, 2014. The remaining WSP funding in the amount of \$5,500,000 was transferred to the EOHWC on August 17, 2015.

On December 28, 2017, the New York State Department of Health issued the 2017 New York City Filtration Determination which requires, among other things, that NYC DEP: “Execute and register a contract or contract amendment with the EOH Watershed Corporation to provide \$22 million to support the design and construction of stormwater retrofits in the EOH FAD Basins and in basins upstream and hydrologically connected to the Croton Falls Reservoir. A total of \$7 million shall be specifically committed to support stormwater retrofits within EOH FAD basins and \$15 million shall be specifically committed to support stormwater retrofits within the basin upstream and hydrologically connected to the Croton Falls Reservoir or within EOH FAD basins.”

On January 18, 2019 a new contract for the above referenced \$22 million was signed between NYC DEP and East of Hudson Watershed Corp. On August 15, 2019 the initial payment of \$15 million was received and deposited to the FAD bank account. \$2.4 million was then transferred to the operating account to reimburse WQIP funds for dollars spent so far on FAD projects from 1/1/2017 through August 15, 2019. Of the \$22 million contracted, the remaining \$7 million will be invoiced to NYC DEP once there are \$7 million in committed (signed) contracts within the four FAD basins.

The WSP and FAD funds are principal funds, bonded by the NYCDEP for capital expenditures. Thus, projects completed using these funds must, at minimum, have a 5-year life span, minimum total project cost of \$35,000, and have begun after January 1, 2011. The MOA funds are interest on funds previously provided by NYCDEP to Putnam and Westchester counties, and are only restricted to stormwater retrofit projects in the original County.

In addition, each municipality may seek grants from other sources (e.g. NYSDEC Water Quality Investment Program, Environmental Facilities Corporation, etc.). Grants for stormwater retrofits were awarded to the Town of Bedford, Town of Kent, Town of North Salem, Town of Somers, and Village of Pawling. NYSDEC grants include a match requirement by the recipient. EOHWC will reimburse the municipalities for the match component, if requested.

The following tables provide various data describing the EOHWC financial status. The Total Expenditures, based on the four primary expense categories, are shown in Tables 2A and 2B. The expense categories can be generally described as follows:

1. **General Administration:** Expenses internal to EOHWC operations, including non-project expenses (salaries, benefits, travel, office equipment/supplies, computer hardware and software, advertising, utilities, insurance, rent, etc.).
2. **Project Administration:** Expenses internal to EOHWC operations for project expenses (e.g. reviewing design submittals, project designs, coordinating with consultants and/or contractors, project meetings, etc.).
3. **Design:** Fees paid by EOHWC to engineering consultants, in accordance with Professional Service Contracts, Task Orders, and/or Change Orders. This may also include reimbursement to municipalities for design fees paid by the municipality, and/or reimbursement to municipalities for the match component of a grant for the design of an acceptable SRP.

4. **Construction:** Fees paid by EOHWC to construction contractors, in accordance with an executed Agreement included within the Contract/ Bid Documents, and/or Change Orders. This may also include reimbursement to municipalities for construction costs paid by the municipality.

Table 2A: Total Expenditures (2020)

Expense Type	Amount
General Administration	\$ 401,935 (15.1%)
Project Administration	\$ 142,927 (5.3%)
O&M	\$ 185,610 (6.9%)
Design	\$ 217,006 (8.1%)
Construction	\$ 1,728,936 (64.6%)
TOTAL	\$ 2,676,414

Table 2B: Total Expenditures (2012 thru 2020)

Expense Type	Amount
General Administration	\$ 3,853,529 (10.6%)
Project Administration	\$ 1,172,756 (3.2%)
O&M	\$ 630,832 (1.7%)
Design	\$ 5,104,669 (14.1%)
Construction	\$ 25,627,553 (70.4%)
TOTAL	\$ 36,389,339

Table 3 includes a summary of the various source funds available to EOHWC for stormwater retrofit projects, and lists the total expenses against each source fund. Putnam County funds in the amount of \$4.7 million were used to fund WSP projects above the initial \$10 million received prior to 2015 and were replenished upon receipt of the additional \$5.5 million WSP funding in August, 2015.

Table 3: Fund Summary (2012-2020)

Source Fund	EOHWC Funds		
	Received	Expenses	Remaining
Putnam County MOA	\$ 7,773,796	(\$ 5,010,813)	\$ 2,762,984
Westchester County MOA	\$ 10,000,000	(\$ 6,093,298)	\$ 3,906,702
DEP Funding Agreement (WSP)	\$ 15,500,000	(\$ 15,500,000)	\$ 0
DEP Funding Agreement (FAD)	\$ 19,500,000	(\$ 8,696,919)	\$10,803,081
Non-SRP and Rental Income	\$ 460,230	(\$ 457,230)	\$ 3,000
O&M Bubble Compliance	\$ 630,832	(\$ 630,832)	\$ 0
Interest Earnings	\$ 611,886	-	\$ 611,886
Adjust for Receivables/Payables		(\$ 84,946)	(\$ 84,946)
Totals	\$ 54,476,745	(\$ 36,474,038)	\$18,002,707

The target SRP efficiency, based on available funding of \$38.2 million and a phosphorus removal requirement of 459.5 kg, is approximately \$83,000/kg. Based on the project and financial data to date, the approximate average SRP efficiency for SRPs in progress, completed, and/or cancelled as part of the EOHWC program, is \$60,000/kg. The EOHWC will have a surplus of funding available and surpass the 459.6 kg/yr goal for projects as part of the Year 1-5 Work Plan. This funding was carried over into Years 6-10 to assist in reaching the next phosphorus reduction benchmark, and complete the program. All phosphorus reductions past the 5-year goal will be applied to the future of the program.

Funding for all Operations and Maintenance (O&M) activities come from the member municipalities as part of the O&M Agreement accepted by all MS4s. Each MS4 is responsible for their share of O&M costs as defined by the agreement, and no project funding is used for maintenance.

As the Funding Agreement source funds were not available to EOHWC until September 2013, project and administration costs were charged against the Putnam and/or Westchester MOA source funds. Upon receipt of the disbursements from the Funding Agreement, funds previously spent from the Putnam and/or Westchester MOA source

funds on eligible expenses were reclassified from the Funding Agreement to the Putnam and/or Westchester MOA source funds.

## **6. FUTURE WORK**

### **6.1 Completion of the 10-Year Stormwater Retrofit Program**

The EOHWC is advancing towards the completion of the 10-Year Stormwater Retrofit Program. There are currently enough projects projected to exceed the phosphorus reduction requirements set by the NYSDEC, and EOHWC will continue to look for the most economical and environmental impacts moving forward with the program.

The EOHWC has started work on Year 10 of the Stormwater Retrofit Program in the beginning of the 2021. This Work Plan will provide the EOHWC with enough projects to reach our goal of 919.2 kg/yr at the completion of the program. The flexibility of project selection at this junction can allow the EOHWC to concentrate on construction efforts at the conclusion of the program, and limit any open design contracts that are pursued.

### **6.2 Program Requirements and Funding for Years 6-10**

The East of Hudson Watershed Coalition successfully signed an agreement with the NYCDEP for the receipt of an additional \$22 million which can be applied to a select group of projects within the program. All projects which are located within the Filtration Avoidance Determination (FAD) Basins are eligible for this funding, along with those basins hydrologically connected. The Federal and State Grant programs are actively being pursued, with various projects qualifying for USACOE funding and the potential Drinking Water and Wastewater Infrastructure Act of 2021.

### **6.3 Advancement of Engineering and Project Techniques**

The EOHWC will continue to explore new techniques and products to further the advancement of the phosphorus reduction program with the NYCDEP and NYSDEC. New approaches may not be limited to product selection, but also include expansion of

existing site development plans to incorporate a phosphorus reduction element to further advance the pollution reduction initiative.



EAST OF  
HUDSON  
WATERSHED  
CORPORATION

Appendix A:  
ABO Budget



**EAST OF HUDSON WATERSHED CORPORATION  
BUDGET AND FINANCIAL PLAN**

	2012	2013	2014	2015	Actual 2016	2017	2018	2019	2020	Adopted Budget 2021	Total Since Inception thru 2021
<b>FINANCIAL SOURCES</b>											
NYC DEP	-	\$ 10,000,000	\$ 4,500,000	\$ 5,500,000	-	-	-	\$ 15,000,000	-	-	\$ 35,000,000
Interest	\$ 23,555	32,757	15,730	6,524	\$ 5,229	\$ 40,271	\$ 96,244	114,895	\$ 276,677	\$ 30,000	\$ 641,882
O&M Bubble Compliance	-	-	-	-	64,494	107,341	121,410	151,977	185,610	260,000	\$ 890,832
Putnam County IDA Rent	-	-	-	-	-	-	1,250	3,000	3,000	3,000	\$ 10,250
Putnam/Westchester Funds	17,773,796	-	-	-	-	-	-	-	-	-	\$ 17,773,796
Non-SRP Fund Reimbursement	-	70,000	-	122,620	-	-	-	-	-	-	\$ 192,620
<b>TOTAL FINANCIAL SOURCES</b>	<b>\$ 17,797,351</b>	<b>\$ 10,102,757</b>	<b>\$ 4,515,730</b>	<b>\$ 5,629,144</b>	<b>\$ 69,723</b>	<b>\$ 147,612</b>	<b>\$ 218,904</b>	<b>\$ 15,269,872</b>	<b>\$ 465,287</b>	<b>\$ 293,000</b>	<b>\$ 54,509,381</b>
<b>EXPENDITURES</b>											
<b>Compensation (Salaries plus Health Insurance and PR Tax expense)</b>											
Exec Dir/Dir of Engineering		\$ 73,481	91,709	104,885	133,482	135,416	139,341	145,391	140,935	149,362	\$ 1,114,003
Project Engineer/Watershed planner			-	64,594	115,904	60,126	-	-	16,328	69,796	326,749
Comptroller			30,686	98,712	90,909	92,899	104,275	108,465	106,532	119,145	751,624
Accounts Payable Coordinator			3,648	18,334	28,121	28,020	10,270	-	-	-	88,394
Records Management Coordinator			3,648	22,578	37,353	36,767	-	-	-	-	100,347
Office Manager		18,396	60,000	28,620	-	-	44,688	59,808	63,840	66,358	341,710
Intern								-	-	-	-
In-house Attorney			67,457	-	-	-	-	-	-	-	67,457
Executive Director	105,907	166,043	118,000	-	-	-	-	-	-	-	389,950
Prior (other staff)	50,260	71,463	-	-	-	-	-	-	-	-	121,723
<b>Total Compensation</b>	<b>\$ 156,167</b>	<b>\$ 329,383</b>	<b>\$ 375,148</b>	<b>\$ 337,723</b>	<b>\$ 405,771</b>	<b>\$ 353,229</b>	<b>\$ 298,574</b>	<b>\$ 313,664</b>	<b>\$ 327,636</b>	<b>\$ 404,660</b>	<b>\$ 3,301,955</b>
<b>Project costs including O&amp;M</b>	<b>\$ 1,747,238</b>	<b>\$ 10,341,709</b>	<b>\$ 7,714,170</b>	<b>\$ 2,582,642</b>	<b>\$ 2,122,912</b>	<b>\$ 1,671,886</b>	<b>\$ 2,195,594</b>	<b>\$ 1,193,412</b>	<b>\$ 2,188,451</b>	<b>\$ 6,872,412</b>	<b>\$ 38,630,426</b>
<b>Other Expenditures</b>	<b>\$ 147,017</b>	<b>\$ 164,114</b>	<b>\$ 224,732</b>	<b>\$ 223,538</b>	<b>\$ 188,596</b>	<b>\$ 208,261</b>	<b>\$ 201,199</b>	<b>\$ 202,972</b>	<b>\$ 162,714</b>	<b>\$ 207,379</b>	<b>\$ 1,930,522</b>
<b>TOTAL EXPENDITURES</b>	<b>\$ 2,050,422</b>	<b>\$ 10,835,206</b>	<b>\$ 8,314,050</b>	<b>\$ 3,143,903</b>	<b>\$ 2,717,279</b>	<b>\$ 2,233,376</b>	<b>\$ 2,695,367</b>	<b>\$ 1,710,048</b>	<b>\$ 2,678,801</b>	<b>\$ 7,484,451</b>	<b>\$ 43,862,903</b>
<b>Cumulative excess (deficiency) of financial sources over expenditures</b>											<u><u>\$ 10,646,478</u></u>



EAST OF  
HUDSON  
WATERSHED  
CORPORATION

Appendix B:  
EOHWC Project Data  
Sheets for Year 9

As submitted February 2021 to the  
NYSDEC



# EAST OF HUDSON

2 NYS Route 164  
Patterson, NY 12563  
Tel: 845-319-6349

Print Date: January 30, 2020  
Prepared by: Kevin Fitzpatrick, PE  
Checked by: \_\_\_\_\_

## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	B-MU-701	Project Status:	Design
Common Name:	NYCDEP Commuter Lot		
Watershed:	Muscoot		
Site Owner:	NYCDEP	Design Engineer:	KC Engineering
Site Address:	Woods Bridge Rd		
County:	Westchester	60% Submission Date:	5/8/2019
Municipality:	Bedford	100% Submission Date:	TBD
Supervisor:	Chris Burdick	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Catch Basin Inserts	Associated Permits:	NYCDEP LUP
Original P Removal:	3.58 kg/yr	Proposed Drainage Area:	2.08 acres
Revised P Removal:	1.99 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



# EAST OF HUDSON

2 NYS Route 164  
Patterson, NY 12563  
Tel: 845-319-6349

Print Date: January 30, 2020  
Prepared by: Kevin Fitzpatrick, PE  
Checked by: \_\_\_\_\_

## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	Carmel-CF-601	Project Status:	Design
Common Name:	Eleanor Drive		
Watershed:	Croton Falls		
Site Owner:	Multiple owners	Design Engineer:	KC Engineering
Site Address:	22 Eleanor Drive (Mult. Owners)		
County:	Putnam	60% Submission Date:	6/11/2019
Municipality:	Carmel	100% Submission Date:	
Supervisor:	Kenneth Schmitt	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	11/30/2016
Revised Retrofit:	Channel Stabilization	Associated Permits:	NYCDEP LUP
Original P Removal:	4.22 kg/yr	Proposed Drainage Area:	11.79 acres
Revised P Removal:	6.27 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



# EAST OF HUDSON

2 NYS Route 164  
Patterson, NY 12563  
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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	Carmel-CF-701	Project Status:	Concept
Common Name:	Putnam County Hospital Center		
Watershed:	Croton Falls		
Site Owner:	Putnam County Hospital	Design Engineer:	
Site Address:	670 Stoneleigh Ave		
County:	Putnam	60% Submission Date:	
Municipality:	Carmel	100% Submission Date:	
Supervisor:	Kenneth Schmitt	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Catch Basin Inserts	Associated Permits:	None
Original P Removal:	5.45 kg/yr	Proposed Drainage Area:	5.50 acres
Revised P Removal:	5.45 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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2 NYS Route 164  
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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	Carmel-CF-703	Project Status:	Design
Common Name:	Woodland Trail		
Watershed:	Croton Falls		
Site Owner:	Multiple owners	Design Engineer:	P&D Consulting Engineers, P.C.
Site Address:	Woodland Trail		
County:	Putnam	60% Submission Date:	
Municipality:	Carmel	100% Submission Date:	
Supervisor:	Kenneth Schmitt	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Stormfilter, Channel Stabilization	Field Recon Date:	6/1/2018
Revised Retrofit:	Channel Stabilization and Filter Chamber	Associated Permits:	Protection of Waters
Original P Removal:	32.80 kg/yr	Proposed Drainage Area:	4.20 acres
Revised P Removal:	32.80 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		

### **Agreements:**

Municipal Reimbursement Complete? **N/A**    Municipal Installation Complete? **No**    Private Installation Complete? **No**



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2 NYS Route 164  
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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	Carmel-CF-801	Project Status:	Design
Common Name:	Fulmar Rd Ele. School (A)		
Watershed:	Croton Falls		
Site Owner:	Mahopac Central School District	Design Engineer:	
Site Address:	55 Fulmar Rd		
County:	Putnam	60% Submission Date:	
Municipality:	Carmel	100% Submission Date:	6/11/2014
Supervisor:	Kenneth Schmitt	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Bioretention	Field Recon Date:	
Revised Retrofit:	Bioretention	Associated Permits:	None
Original P Removal:	1.07 kg/yr	Proposed Drainage Area:	3.35 acres
Revised P Removal:	1.07 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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2 NYS Route 164  
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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	Carmel-CF-802	Project Status:	Design
Common Name:	Fulmar Rd Ele. School (B)		
Watershed:	Croton Falls		
Site Owner:	Mahopac Central School District	Design Engineer:	
Site Address:	55 Fulmar Rd		
County:	Putnam	60% Submission Date:	
Municipality:	Carmel	100% Submission Date:	6/11/2014
Supervisor:	Kenneth Schmitt	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Bioretention	Field Recon Date:	
Revised Retrofit:	Bioretention	Associated Permits:	None
Original P Removal:	1.54 kg/yr	Proposed Drainage Area:	3.26 acres
Revised P Removal:	1.54 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	Carmel-GL-815	Project Status:	Design
Common Name:	Ridge Rd		
Watershed:	Glenieda		
Site Owner:	Carmel	Design Engineer:	P&D Consulting Engineers, P.C.
Site Address:	Ridge Rd/Fowler Ave		
County:	Putnam	60% Submission Date:	
Municipality:	Carmel	100% Submission Date:	
Supervisor:	Kenneth Schmitt	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Filter Chamber w/Channel St.	Field Recon Date:	
Revised Retrofit:	Filter Chamber	Associated Permits:	None
Original P Removal:	1.20	Proposed Drainage Area:	N/A acres
Revised P Removal:	N/A		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
Private Installation Complete?	N/A		



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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	Kent-BC-830	Project Status:	Design
Common Name:	Rambler Rd		
Watershed:	Boyds Corner		
Site Owner:	Town of Kent	Design Engineer:	P&D Consulting Engineers, P.C.
Site Address:	Rambler Rd and Seven Lakes Dr		
County:	Putnam	60% Submission Date:	
Municipality:	Kent	100% Submission Date:	
Supervisor:	Maureen Flemming	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Filter Chamber	Field Recon Date:	
Revised Retrofit:		Associated Permits:	None
Original P Removal:	2.73	Proposed Drainage Area:	N/A acres
Revised P Removal:	N/A		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	Kent-CF-845	Project Status:	Design
Common Name:	Palmer Lake		
Watershed:	Croton Falls		
Site Owner:	Private	Design Engineer:	Insite Engineering
Site Address:	Palmer Trail and Route 52		
County:	Putnam	60% Submission Date:	
Municipality:	Kent	100% Submission Date:	
Supervisor:	Maureen Flemming	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Wet ED Pond	Field Recon Date:	
Revised Retrofit:	Subsurface Infiltration	Associated Permits:	None
Original P Removal:	8.29 kg/yr	Proposed Drainage Area:	25.12 acres
Revised P Removal:	12.74 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	Kent-MB-601	Project Status:	Construction
Common Name:	Montrose Drive		
Watershed:	Middle Branch		
Site Owner:	Town of Kent	Design Engineer:	Lawrence Paggi Engineering
Site Address:	640 NYS Rte 52		
County:	Putnam	60% Submission Date:	2/22/2019
Municipality:	Kent	100% Submission Date:	5/9/2019
Supervisor:	Maureen Flemming	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Multiple Pond	Field Recon Date:	
Revised Retrofit:	Multiple Ponds	Associated Permits:	None
Original P Removal:	20.50 kg/yr	Proposed Drainage Area:	54.10 acres
Revised P Removal:	12.67 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date: 8/9/2019			
Construction Completion date: TBD			
<b>Agreements:</b>			
Municipal Reimbursement Complete? N/A    Municipal Installation Complete? TBD    Private Installation Complete? N/A			



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	Kent-MB-602	Project Status:	Complete
Common Name:	Haviland Rd Outfall		
Watershed:	Middle Branch		
Site Owner:	Town of Kent Parks	Design Engineer:	Insite Engineering
Site Address:	60 Haviland Rd		
County:	Putnam	60% Submission Date:	
Municipality:	Kent	100% Submission Date:	8/20/2018
Supervisor:	Maureen Flemming	Record Document Rec'd Date:	8/21/2019
Original Proposed Retrofit:	Channel Stabilization, Pocket Wetland	Field Recon Date:	7/14/2017
Revised Retrofit:	Channel Stabilization and Pocket Wetland	Associated Permits:	None
Original P Removal:	5.40 kg/yr	Proposed Drainage Area:	8.40 acres
Revised P Removal:	7.23 kg/yr		
Final P Removal Credit by NYSDEC:	7.23 kg/yr		
Construction Start date: 10/1/2018			
Construction Completion date: 8/21/2019			
<b>Agreements:</b>			
Municipal Reimbursement Complete? N/A    Municipal Installation Complete? No    Private Installation Complete? No			



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2 NYS Route 164  
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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	L-CR-701	Project Status:	Design
Common Name:	Lewisboro Elementary School		
Watershed:	Cross River		
Site Owner:	Katonah-Lewisboro School District	Design Engineer:	Rennia Engineering
Site Address:	79 Bouton Rd		
County:	Westchester	60% Submission Date:	
Municipality:	Lewisboro	100% Submission Date:	
Supervisor:	Peter Parsons	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Bioretention	Associated Permits:	None
Original P Removal:	1.18 kg/yr	Proposed Drainage Area:	1.10 acres
Revised P Removal:	2.35 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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2 NYS Route 164  
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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	L-CR-803	Project Status:	Design
Common Name:	Lewisboro Town Park		
Watershed:	Cross River		
Site Owner:	Lewisboro	Design Engineer:	Rennia Engineering
Site Address:	890 Route 35		
County:	Westchester	60% Submission Date:	
Municipality:	Lewisboro	100% Submission Date:	
Supervisor:	Peter Parsons	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Subsurface Infiltration	Field Recon Date:	
Revised Retrofit:	Subsurface Infiltration	Associated Permits:	None
Original P Removal:	3.00 kg/yr	Proposed Drainage Area:	1.40 acres
Revised P Removal:	3.00 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
Private Installation Complete?	N/A		



# EAST OF HUDSON

2 NYS Route 164  
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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	L-CR-805	Project Status:	Design
Common Name:	Salem Hill Rd		
Watershed:	Cross River		
Site Owner:	Lewisboro	Design Engineer:	Rennia Engineering
Site Address:	Salem Hill Rd and Mead St		
County:	Westchester	60% Submission Date:	
Municipality:	Lewisboro	100% Submission Date:	
Supervisor:	Peter Parsons	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Chamber Filter	Field Recon Date:	
Revised Retrofit:		Associated Permits:	None
Original P Removal:	2.48 kg/yr	Proposed Drainage Area:	12.40 acres
Revised P Removal:	2.48 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
Private Installation Complete?	N/A		



# EAST OF HUDSON

2 NYS Route 164  
Patterson, NY 12563  
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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	L-MU-715	Project Status:	Design
Common Name:	Goldens Bridge Train Station		
Watershed:	Muscoot		
Site Owner:	NYCDEP/MTA	Design Engineer:	KC Engineering
Site Address:	1 Old Bedford Rd		
County:	Westchester	60% Submission Date:	5/8/2019
Municipality:	Lewisboro	100% Submission Date:	TBD
Supervisor:	Peter Parsons	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Catch Basin Inserts	Associated Permits:	None
Original P Removal:	5.62	Proposed Drainage Area:	5.25 acres
Revised P Removal:	N/A		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



# EAST OF HUDSON

2 NYS Route 164  
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Print Date: January 30, 2020  
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 Checked by: \_\_\_\_\_

## ***EOHWC Year 4 (2013) Project Summary - Interim***

Project ID:	MK-NC-22	Project Status:	Construction
Common Name:	Leonard Park		
Watershed:	New Croton		
Site Owner:	Village of Mt Kisco	Design Engineer:	Rennia Engineering Design
Site Address:	Leonard Park Parking Area & Tennis Cts.		
County:	Westchester	60% Submission Date:	4/28/2014
Municipality:	Mt. Kisco	100% Submission Date:	7/31/2015
Supervisor:	Gina Picinich	Record Document Rec'd Date:	TBD
Original Proposed Retrofit:	Bioretention/Wet Pond	Field Recon Date:	
Revised Retrofit:	Bioretention/Surface Sand Filter	Associated Permits:	Stream Disturbance
Original P Removal:	4.80 kg/yr	Proposed Drainage Area:	30.42 acres
Revised P Removal:	8.50 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date: TBD			
Construction Completion date: TBD			
<b>Agreements:</b>			
Municipal Reimbursement Complete? N/A    Municipal Installation Complete? Yes    Private Installation Complete? N/A			



# EAST OF HUDSON

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Print Date: January 30, 2020  
Prepared by: Kevin Fitzpatrick, PE  
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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	MK-NC-601	Project Status:	Design
Common Name:	Village Hall		
Watershed:	New Croton		
Site Owner:	Multiple owners	Design Engineer:	BY TOWN
Site Address:	104 Main Street		
County:	Westchester	60% Submission Date:	
Municipality:	Mount Kisco	100% Submission Date:	
Supervisor:	Gina Picinich	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Catch Basin Inserts	Associated Permits:	None
Original P Removal:	4.41 kg/yr	Proposed Drainage Area:	4.26 acres
Revised P Removal:	4.33 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	No	Municipal Installation Complete?	No
Private Installation Complete?	N/A		



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	MK-NC-602	Project Status:	Design
Common Name:	Mt. Kisco Commons		
Watershed:	New Croton		
Site Owner:	Urban Edge Properties	Design Engineer:	HVEA
Site Address:	195 North Bedford Rd		
County:	Westchester	60% Submission Date:	
Municipality:	Mount Kisco	100% Submission Date:	
Supervisor:	Gina Picinich	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Catch Basin Inserts	Associated Permits:	None
Original P Removal:	16.23 kg/yr	Proposed Drainage Area:	9.90 acres
Revised P Removal:	10.76 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 5 (2014) Project Summary - Interim***

Project ID:	NewC-NCR-33A	Project Status:	Design
Common Name:	Burden Preserve		
Watershed:	New Croton		
Site Owner:	Town of New Castle	Design Engineer:	Municipal Engineer
Site Address:	Harriman Rd/Sheather Rd		
County:	Westchester	60% Submission Date:	
Municipality:	New Castle	100% Submission Date:	4.25.17
Supervisor:	Robert Greenstein	Record Document Rec'd Date:	TBD
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Channel Stabilization	Associated Permits:	Wetlands Permit E&SC Permit
Original P Removal:	3.11 kg/yr	Proposed Drainage Area:	10.00 acres
Revised P Removal:	9.43 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	Yes
Private Installation Complete?	N/A		



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## ***EOHWC Year 5 (2014) Project Summary - Interim***

Project ID:	NewC-NCR-33B	Project Status:	Design
Common Name:	Burden Preserve		
Watershed:	New Croton		
Site Owner:	Town of New Castle	Design Engineer:	Municipal Engineer
Site Address:	Harriman Rd/Sheather Rd		
County:	Westchester	60% Submission Date:	
Municipality:	New Castle	100% Submission Date:	4.25.17
Supervisor:	Robert Greenstein	Record Document Rec'd Date:	TBD
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Channel Stabilization	Associated Permits:	Wetland Permit E&SC Permit
Original P Removal:	3.11 kg/yr	Proposed Drainage Area:	2.78 acres
Revised P Removal:	4.68 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date: TBD			
Construction Completion date: TBD			

### **Agreements:**

Municipal Reimbursement Complete? **N/A**    Municipal Installation Complete? **Yes**    Private Installation Complete? **N/A**



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	NewC-NCR-601	Project Status:	Concept		
Common Name:	Sheather Rd				
Watershed:	New Croton				
Site Owner:	Town of New Castle	Design Engineer:			
Site Address:	Burden Preserve				
County:	Westchester	60% Submission Date:			
Municipality:	New Castle	100% Submission Date:			
Supervisor:	Ivy Pool	Record Document Rec'd Date:	N/A		
Original Proposed Retrofit:	Bank Stabilization	Field Recon Date:			
Revised Retrofit:		Associated Permits:	None		
Original P Removal:	24.00	Proposed Drainage Area:	N/A	acres	
Revised P Removal:	N/A				
Final P Removal Credit by NYSDEC:	TBD		kg/yr		
Construction Start date:	TBD				
Construction Completion date:	TBD				
<b>Agreements:</b>					
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No	Private Installation Complete?	N/A



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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	NewC-NCR-701	Project Status:	Construction
Common Name:	Chappaqua Crossings		
Watershed:	New Croton		
Site Owner:	Private	Design Engineer:	BY TOWN
Site Address:	Chappaqua Crossings		
County:	Westchester	60% Submission Date:	BY TOWN
Municipality:	New Castle	100% Submission Date:	BY TOWN
Supervisor:	Ivy Pool	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Multiple	Field Recon Date:	
Revised Retrofit:		Associated Permits:	None
Original P Removal:	7.70 kg/yr	Proposed Drainage Area:	N/A acres
Revised P Removal:	7.70 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	BY TOWN		
Construction Completion date:	BY TOWN		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	N/A
Private Installation Complete?	N/A		



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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	NewC-NCR-801	Project Status:	Design
Common Name:	Courtme1 Rd		
Watershed:	New Croton		
Site Owner:	NYCDEP	Design Engineer:	Hudson Engineering
Site Address:	24 Courtme1 Rd		
County:	Westchester	60% Submission Date:	
Municipality:	New Castle	100% Submission Date:	
Supervisor:	Ivy Pool	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Channel Stabilization and Filter Chamber	Associated Permits:	None
Original P Removal:	22.67 kg/yr	Proposed Drainage Area:	12.10 acres
Revised P Removal:	20.75 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date: TBD			
Construction Completion date: TBD			
<b>Agreements:</b>			
Municipal Reimbursement Complete? N/A    Municipal Installation Complete? No    Private Installation Complete? No			



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	NS-MU-601	Project Status:	Design
Common Name:	Keeler Lane		
Watershed:	Muscoot		
Site Owner:	Multiple owners	Design Engineer:	Insite Engineering
Site Address:	Multiple addresses		
County:	Westchester	60% Submission Date:	
Municipality:	North Salem	100% Submission Date:	
Supervisor:	Warren Lucas	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Channel Stabilization	Associated Permits:	None
Original P Removal:	17.65 kg/yr	Proposed Drainage Area:	126.00 acres
Revised P Removal:	31.36 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	NS-MU-701	Project Status:	Design
Common Name:	Croton Falls Train Station		
Watershed:	Muscoot		
Site Owner:	NYCDEP	Design Engineer:	KC Engineering
Site Address:	Back Street		
County:	Westchester	60% Submission Date:	5/8/2019
Municipality:	North Salem	100% Submission Date:	
Supervisor:	Warren Lucas	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:		Associated Permits:	NYCDEP LUP
Original P Removal:	1.98 kg/yr	Proposed Drainage Area:	1.85 acres
Revised P Removal:	1.97 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date: TBD			
Construction Completion date: TBD			
<b>Agreements:</b>			
Municipal Reimbursement Complete? N/A    Municipal Installation Complete? No    Private Installation Complete? No			



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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	NS-MU-702	Project Status:	Design
Common Name:	Purdys Train Station		
Watershed:	Muscoot		
Site Owner:	NYCDEP	Design Engineer:	KC Engineering
Site Address:	Route 116		
County:	Westchester	60% Submission Date:	5/8/2019
Municipality:	North Salem	100% Submission Date:	
Supervisor:	Warren Lucas	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Catch Basin Inserts	Associated Permits:	None
Original P Removal:	3.21 kg/yr	Proposed Drainage Area:	3.00 acres
Revised P Removal:	3.21 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 4 (2013) Project Summary - Interim***

Project ID:	Pat-EB-09-03B	Project Status:	Construction
Common Name:	Veterans Memorial Park		
Watershed:	East Branch		
Site Owner:	Town of Patterson	Design Engineer:	Lawrence J. Paggi
Site Address:	North Street, Patterson, NY 12563		
County:	Putnam	60% Submission Date:	2/27/2014
Municipality:	Patterson	100% Submission Date:	7/30/2015
Supervisor:	Richard Williams	Record Document Rec'd Date:	TBD
Original Proposed Retrofit:	Bioretention	Field Recon Date:	
Revised Retrofit:	Organic Filter (F-4)	Associated Permits:	None
Original P Removal:	1.51 kg/yr	Proposed Drainage Area:	9.40 acres
Revised P Removal:	1.80 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	Fall 2019		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	Yes	Municipal Installation Complete?	Yes
Private Installation Complete?	N/A		



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	Pat-EB-601	Project Status:	Design
Common Name:	Valley Rd		
Watershed:	East Branch		
Site Owner:	Multiple owners	Design Engineer:	KC Engineering
Site Address:	Multiple addresses		
County:	Putnam	60% Submission Date:	
Municipality:	Patterson	100% Submission Date:	
Supervisor:	Richard Williams	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Multiple Ponds	Field Recon Date:	
Revised Retrofit:	Multiple Ponds	Associated Permits:	CPDP
Original P Removal:	19.80 kg/yr	Proposed Drainage Area:	96.40 acres
Revised P Removal:	19.80 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date: TBD			
Construction Completion date: TBD			
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
Private Installation Complete?	No		



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	Pat-EB-602	Project Status:	Construction
Common Name:	Dayton Rd		
Watershed:	East Branch		
Site Owner:	Town of Patterson	Design Engineer:	Lawerence Paggi Engineering
Site Address:	Dayton Rd		
County:	Putnam	60% Submission Date:	
Municipality:	Patterson	100% Submission Date:	9/4/2019
Supervisor:	Richard Williams	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Channel Stabilisation	Associated Permits:	None
Original P Removal:	11.63 kg/yr	Proposed Drainage Area:	N/A acres
Revised P Removal:	11.63 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:		11/8/2019	
Construction Completion date:		TBD	

### **Agreements:**

Municipal Reimbursement Complete? **N/A**    Municipal Installation Complete? **No**    Private Installation Complete? **N/A**



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	Pat-EB-603	Project Status:	Construction
Common Name:	Lost Lake		
Watershed:	East Branch		
Site Owner:	Lost Lake, Inc.	Design Engineer:	KC Engineering
Site Address:			
County:	Putnam	60% Submission Date:	4/26/2019
Municipality:	Patterson	100% Submission Date:	10/30/2019
Supervisor:	Richard Williams	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Channel Stabilization	Associated Permits:	None
Original P Removal:	14.60 kg/yr	Proposed Drainage Area:	N/A acres
Revised P Removal:	14.60 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	Pat-EB-701	Project Status:	Design
Common Name:	Patterson Train Station		
Watershed:	East Branch		
Site Owner:	MTA	Design Engineer:	KC Engineering
Site Address:	Front Street		
County:	Putnam	60% Submission Date:	
Municipality:	Patterson	100% Submission Date:	7/24/2019
Supervisor:	Richard Williams	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Catch Basin Inserts	Associated Permits:	None
Original P Removal:	1.71 kg/yr	Proposed Drainage Area:	1.34 acres
Revised P Removal:	1.33 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	PC-MB-701	Project Status:	Complete
Common Name:	Tilly Foster Farm		
Watershed:	Middle Branch		
Site Owner:	Putnam County	Design Engineer:	Insite Engineering
Site Address:	NYS Route 312		
County:	Putnam	60% Submission Date:	BY COUNTY
Municipality:	Putnam County	100% Submission Date:	BY COUNTY
Supervisor:	Maryellen O'Dell	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Wet ED Pond and Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Wet ED Pond and Channel Stabilization	Associated Permits:	None
Original P Removal:	12.64 kg/yr	Proposed Drainage Area:	10.60 acres
Revised P Removal:	21.44 kg/yr		
Final P Removal Credit by NYSDEC:	21.44 kg/yr		
Construction Start date:	By County		
Construction Completion date:	By County		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	Yes	Municipal Installation Complete?	Yes
Private Installation Complete?	N/A		



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	PR-CR-601	Project Status:	Design
Common Name:	Cross Rd		
Watershed:	Cross River		
Site Owner:	Municipal	Design Engineer:	HVEA
Site Address:	Cross Rd and Route 121		
County:	Westchester	60% Submission Date:	
Municipality:	Pound Ridge	100% Submission Date:	
Supervisor:	Kevin Hansan	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Bank Stabilization	Field Recon Date:	
Revised Retrofit:	Infiltration Trench	Associated Permits:	None
Original P Removal:	21.30 kg/yr	Proposed Drainage Area:	5.80 acres
Revised P Removal:	2.40 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	PR-CR-701	Project Status:	Design
Common Name:	Parkview Drive		
Watershed:	Cross River		
Site Owner:	Private	Design Engineer:	P&D Consulting Engineers, P.C.
Site Address:	114 Parkview Drive		
County:	Westchester	60% Submission Date:	
Municipality:	Pound Ridge	100% Submission Date:	
Supervisor:	Kevin Hansan	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Channel Stabilization	Associated Permits:	None
Original P Removal:	1.39 kg/yr	Proposed Drainage Area:	N/A acres
Revised P Removal:	1.39 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	PR-CR-702	Project Status:	Design
Common Name:	Dingee Road		
Watershed:	Cross River		
Site Owner:	Private	Design Engineer:	P&D Consulting Engineers, P.C.
Site Address:	26 Dingee Road		
County:	Westchester	60% Submission Date:	
Municipality:	Pound Ridge	100% Submission Date:	
Supervisor:	Kevin Hansan	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Channel Stabilization	Field Recon Date:	
Revised Retrofit:	Channel Stabilization	Associated Permits:	None
Original P Removal:	2.31 kg/yr	Proposed Drainage Area:	N/A acres
Revised P Removal:	2.31 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 2 (2011) Project Summary - Interim***

Project ID:	SE-DI-03	Project Status:	Complete
Common Name:	Lincoln Rd		
Watershed:	Middle Branch		
Site Owner:	Unknown	Design Engineer:	Municipal Engineer
Site Address:	Lincoln Rd		
County:	Putnam	60% Submission Date:	By Town
Municipality:	Southeast	100% Submission Date:	By Town
Supervisor:	Tony Hay	Record Document Rec'd Date:	12/11/2019
Original Proposed Retrofit:	Hydrodynamic Separator and Outfall Stabilization	Field Recon Date:	10/4/2010
Revised Retrofit:	Hydrodynamic Separator and Outfall Stabilization	Associated Permits:	None
Original P Removal:	1.32 kg/yr	Proposed Drainage Area:	10.30 acres
Revised P Removal:	1.30 kg/yr		
Final P Removal Credit by NYSDEC:	1.30 kg/yr		
Construction Start date:	By Town		
Construction Completion date:	By Town		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	By Town	Municipal Installation Complete?	By Town
		Private Installation Complete?	By Town



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	SE-DI-601	Project Status:	Design
Common Name:	Brewster Hill Road		
Watershed:	Diverting		
Site Owner:	Multiple owners	Design Engineer:	Insite Engineering
Site Address:	Brewster Hill Rd		
County:	Putnam	60% Submission Date:	
Municipality:	Southeast	100% Submission Date:	
Supervisor:	Tony Hay	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Pocket Pond	Field Recon Date:	
Revised Retrofit:	Filter Chamber	Associated Permits:	None
Original P Removal:	5.18 kg/yr	Proposed Drainage Area:	3.90 acres
Revised P Removal:	3.09 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



# EAST OF HUDSON

2 NYS Route 164  
Patterson, NY 12563  
Tel: 845-319-6349

Print Date: January 30, 2020  
Prepared by: Kevin Fitzpatrick, PE  
Checked by: \_\_\_\_\_

## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	SE-DI-701	Project Status:	Design
Common Name:	Southeast Train Station		
Watershed:	Diverting		
Site Owner:	MTA	Design Engineer:	KC Engineering
Site Address:	1 Independent Way		
County:	Putnam	60% Submission Date:	
Municipality:	Southeast	100% Submission Date:	
Supervisor:	Tony Hay	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Catch Basin Inserts	Field Recon Date:	
Revised Retrofit:	Catch Basin Inserts	Associated Permits:	None
Original P Removal:	7.80 kg/yr	Proposed Drainage Area:	7.88 acres
Revised P Removal:	4.20 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 8(2019) Project Summary - Interim***

Project ID:	SE-DI-815	Project Status:	Design
Common Name:	Eagle's Ridge Subdivision		
Watershed:	Diverting		
Site Owner:	Private	Design Engineer:	Rennia Engineering
Site Address:	Eagle Ridge Rd		
County:	Putnam	60% Submission Date:	
Municipality:	Southeast	100% Submission Date:	
Supervisor:	Tony Hay	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Channel Stab. & Wet ED Pond	Field Recon Date:	
Revised Retrofit:	Channel Stab. & Wet ED Pond	Associated Permits:	CPDP, NYCDEP SWPPP
Original P Removal:	40.46 kg/yr	Proposed Drainage Area:	19.00 acres
Revised P Removal:	86.71 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
		Private Installation Complete?	No



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## ***EOHWC Year 2 (2011) Project Summary - Interim***

Project ID:	SE-POT-02	Project Status:	Complete
Common Name:	Brewster Heights		
Watershed:	Middle Branch		
Site Owner:	Town/Private	Design Engineer:	Municipal Engineer
Site Address:	Bloomer Rd & 2350 Rt 6		
County:	Putnam	60% Submission Date:	By Town
Municipality:	Southeast	100% Submission Date:	By Town
Supervisor:	Tony Hay	Record Document Rec'd Date:	6/27/2019
Original Proposed Retrofit:	Hydrodynamic Separators	Field Recon Date:	
Revised Retrofit:	Multiple Channel Stabilization	Associated Permits:	None
Original P Removal:	15.51 kg/yr	Proposed Drainage Area:	58.90 acres
Revised P Removal:	72.00 kg/yr		
Final P Removal Credit by NYSDEC:	72.00 kg/yr		
Construction Start date:	Spring 2018		
Construction Completion date:	Spring 2019		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	Yes
		Private Installation Complete?	Yes



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## ***EOHWC Year 7(2018) Project Summary - Interim***

Project ID:	S-MU-701	Project Status:	Complete
Common Name:	Lake Shenorock		
Watershed:	Muscoot		
Site Owner:	Town of Somers	Design Engineer:	BY TOWN
Site Address:			
County:	Westchester	60% Submission Date:	
Municipality:	Somers	100% Submission Date:	10/18/2018
Supervisor:	Rick Morrissey	Record Document Rec'd Date:	11/21/2019
Original Proposed Retrofit:	HDS and Channel Stabilization	Field Recon Date:	
Revised Retrofit:	HDS and Channel Stabilization	Associated Permits:	None
Original P Removal:	8.78 kg/yr	Proposed Drainage Area:	86.52 acres
Revised P Removal:	8.78 kg/yr		
Final P Removal Credit by NYSDEC:	8.78 kg/yr		
Construction Start date:	By Town		
Construction Completion date:	By Town		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	Yes	Municipal Installation Complete?	Yes
Private Installation Complete?	N/A		



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## ***EOHWC Year 6(2017) Project Summary - Interim***

Project ID:	Y-MU-601	Project Status:	Design
Common Name:	Front Street		
Watershed:	Muscoot		
Site Owner:	Town of Yorktown	Design Engineer:	D&B Engineers and Architects, PC
Site Address:	1785 Front Street		
County:	Westchester	60% Submission Date:	6/20/2019
Municipality:	Yorktown	100% Submission Date:	
Supervisor:	Ilan Gilbert	Record Document Rec'd Date:	N/A
Original Proposed Retrofit:	Pocket Wetland	Field Recon Date:	
Revised Retrofit:	Wetland System	Associated Permits:	None
Original P Removal:	27.38 kg/yr	Proposed Drainage Area:	82.50 acres
Revised P Removal:	8.13 kg/yr		
Final P Removal Credit by NYSDEC:	TBD kg/yr		
Construction Start date:	TBD		
Construction Completion date:	TBD		
<b>Agreements:</b>			
Municipal Reimbursement Complete?	N/A	Municipal Installation Complete?	No
Private Installation Complete?	N/A		