

Application Type Renewal
Facility Type MS4
Permit Type Individual

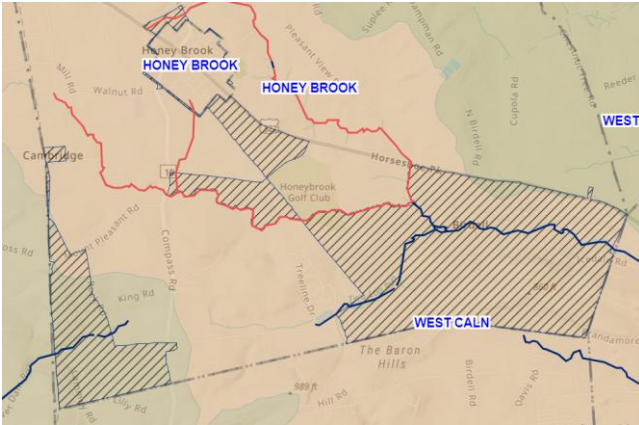
NPDES PERMIT FACT SHEET MS4s

Application No. PAI130535
APS ID 950527
Authorization ID 1198454

Applicant and Facility Information

Applicant Name	<u>Honey Brook Township Chester County</u>	Facility Name	<u>Honey Brook Township MS4 UA</u>
Applicant Address	<u>PO Box 1281</u> <u>Honey Brook, PA 19344-0910</u>	Facility Address	<u>PO Box 1281 500 Suplee Road</u> <u>Honey Brook, PA 19344</u>
Applicant Contact	<u>Warren Obenski</u>	Facility Contact	<u>Warren Obenski</u>
Applicant Phone	<u>(610) 273-3970</u>	Facility Phone	<u>(610) 273-3970</u>
Client ID	<u>94716</u>	Site ID	<u>613696</u>
SIC Code	<u>9199</u>	Municipality	<u>Honey Brook Township</u>
SIC Description	<u>Public Admin. - Genral Government, Nec</u>	County	<u>Chester</u>
Date Application Received	<u>September 18, 2017</u>		
Date Application Accepted	<u></u>		
Purpose of Application	<u>NPDES permit renewal for the discharge of stormwater from a municipal separate storm sewer system.</u>		

Internal Review and Recommendations



HONEY BROOK TWP	PAI130535	Yes	TMDL Plan, SP, IP	West Branch Brandywine Creek	Appendix C-PCB (4a)
				Chesapeake Bay Nutrients/Sediment	Appendix D-Nutrients, Siltation (4a)
				Christina River Basin Nutrients	TMDL Plan-Nutrients, Organic Enrichment/Low D.O. (4a)
				Christina River Basin Sediment	TMDL Plan-Siltation, Suspended Solids (4a)
				Pequea Creek	Appendix E-Nutrients, Organic Enrichment/Low D.O., Siltation (4a)

Approve	Deny	Signatures	Date
X		<i>Carrie Konnovitch</i> Carrie M Konnovitch, P.E. / Environmental Engineering Specialist	June 24, 2025
X		<i>Elizabeth Mahoney</i> Elizabeth A Mahoney / Environmental Group Manager	06/30/2025

Internal Review and Recommendations

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Table C-2 EPA Christina Basin TMDL MS4 Percent Load Reductions¹

	% Reduction		
Municipality	Sediment	Total Nitrogen	Total Phosphorus
Honey Brook Borough	35.7%	40.1%	40.2%
Honey Brook Township	31.3%	33.8%	34.8%

Table D-2 Summary of Central Planning Area Land Cover Classifications

	1995			2012		
	Planning Area (acre)			Planning Area (acre)		
Land Cover Category	HB Borough Planning Area	HB Twp Planning Area	Extended Planning Area	HB Borough Planning Area	HB Twp Planning Area	Extended Planning Area
Water	0.00	0.00	0.00	0.00	1.24	0.00
High-Density Mixed Urban	0.04	0.22	0.00	34.58	22.51	0.00
Hay/Pasture	0.00	0.00	0.00	0.00	0.01	0.00
Cropland	24.56	266.56	23.397	15.93	186.62	18.86
Forest	0.00	8.41	9.18	0.00	2.86	13.20
Disturbed	0.00	0.00	0.00	0.88	18.92	0.05
Turf/Golf	0.00	0.00	0.00	4.91	5.68	0.00
Low-Density Residential	142.60	42.43	6.63	137.77	98.34	7.09
Medium-Density Residential	7.14	11.57	0.00	10.86	0.02	0.00
High-Density Residential	0.67	0.00	0.00	0.36	7.91	0.00
Medium-Density Mixed Urban	34.80	9.15	0.00	15.81	0.19	0.00
Open Land	11.31	5.96	0.00	0.00	0.00	0.00
Total	221.10	344.29	39.20	221.10	344.29	39.20

Internal Review and Recommendations

Table D-3 Central Planning Area Load Summary

	Pollutant Loads for Combined Central Planning Area		
	TN (lbs/yr)	TP (lbs/yr)	TSS (lbs/yr)
1995 Revised Baseline	2,936	679.7	802,265
Existing 2012 Loads	2,742	590.1	763,613
TMDL Load Reduction Required	1,036	243.0	260,998
Existing BMP Reduction	0	0.0	0
Residual TMDL Reduction after Existing BMPs	1,036	243.0	260,998
Revised Existing Load (2017)	2,742	590.1	763,613
Revised Existing Load Reduction for MS4 Permit Term (3%TN,5%TP,10%TSS)	82	29.5	76,361

Table D-4 Central Area Load Reductions by Planning Area

	HB Boro Planning Area	HB Twp Planning Area	Extended Planning Area	Total: Boro + Twp + Ext. Planning Area
TN	load (lb/yr)	load (lb/yr)	load (lb/yr)	load (lb/yr)
Existing 2012 Load	821	1,769	151	2,742
3% of Existing Load	25	53	5	82
TP				
Existing 2012 Load	131.9	419.7	38.5	590.1
5% of Existing Load	6.6	21.0	1.9	29.5
TSS				
Existing 2012 Load	242,439	479,692	41,482	763,613
10% of Existing Load	24,244	47,969	4,148	76,361

Table D-5 Summary of Western Planning Area Land Covers / Classifications

	Area of Impervious, Developed Land (ac)	Area of Pervious, Developed Land(ac)	Area of Undeveloped Land (outside of urbanized area) (ac)
Western Planning Area	30.74	213.36	0.00

Table D-6 Loading Rates Utilized to Calculate Existing Loads for Western Planning Area

Category (Chester County)	Total Nitrogen (TN) Loading Rate (lbs/acre/year)	Total Phosphorus (TP) Loading Rate (lbs/acre/year)	Total Sediment (TSS) Loading Rate (lbs/acre/year)
Impervious Developed	21.15	1.46	1,504.78
Pervious Developed	14.09	0.36	185.12
Undeveloped	10.00	0.33	234.60

Table D-7 Existing Pollutant Loads

	Total Nitrogen (TN) Load (lbs/year)	Total Phosphorous (TP) Load (lbs/year)	Total Sediment (TSS) Load (lbs/year)
Western Planning Area	3656.39	121.69	85,754.14

Internal Review and Recommendations

Load Reductions & BMPs - Honey Brook Borough and Honey Brook Township (Central Area):

Several BMPs to address the required Township (central area) and Borough pollutant reductions will be installed within the Township and in the extended planning area. The Borough and Township will select from the proposed BMPs as shown in Table E-1 below. Additional detail regarding these BMP types and selection process is also provided following the table.

Table E-1 Potential BMPs to Address Pollutant Load Reductions for Central Planning Area

BMP Description	BMP	Address	Tax Parcel Numbers
BMP #1 - HB Twp - Fisher Farm Riparian Buffer	Forest Buffer	2050 Cambridge Rd	22-7-83
BMP #2 - HB Twp - Vet Hospital Bioswale	Bioswale	3784 Horseshoe Pike	22-7-73-1.A
BMP #3 - HB Twp - Suplee Road Bioswale	Bioswale	137/149 Suplee Road	22-7-2 & 22-7-2.1
BMP #3A - HB Twp - Suplee Road Bioswale	Bioswale	4031 Horseshoe Pk/ 730 Commercial Ln	12-4-69 & 12-4-70
BMP #3B - HB Twp - Suplee Road Bioswale	Bioswale	939, 909 899, 869 & 839 Pine St	12-4-47, 12-4-46.1, 12-4-46, 12-4-40.1, 12-4-41.1, & 12-4-44.1
BMP #3C - HB Twp - Suplee Road Bioswale	Bioswale	4151 Horseshoe Pike	12-2-127.1A
BMP #4 - HB Twp - Stoltzfus Farm Bioswale	Bioswale	2175 Twin County Road	22-4-64.1
BMP #4D - HB Twp - Stoltzfus Farm Bioswale	Bioswale	576 Vine St & 540 James St	12-2-31.2 & 12-2-31.1

BMP #4E - HB Twp - Stoltzfus Farm Bioswale	Bioswale	571, 541 & 511 Maple St; 531 Water St; 530 James St	12-2-33.1, 12-2-33.2, 12-2-33.3, 12-2-34, and 12-2-32
BMP #4F - HB Twp - Stoltzfus Farm Bioswale	Bioswale	375, 435 Maple St; 541 James St, & 480 White Birch St	12-2-15, 12-2-14, 12-2-11.2 & 12-2-9.8
BMP #5 - SS-4 - Mun. Basin Retrofit 1	Basin Retrofit	469 Wawassan Dr	22-4-63.2C
BMP #6 - SS-25 - Mun. Basin Retrofit 2	Basin Retrofit	155 Waynebrook Dr	12-1-53.1
BMP #7 - SS-27 - Mun. Basin Retrofit 3	Basin Retrofit	1150 Walnut St	12-4-3.19
BMP #8 - SS-11 - Mun. Basin Retrofit 4	Basin Retrofit	424 Walnut Rd	22-7-3
BMP #9 - PB-3A - Pri. Basin Retrofit 1	Basin Retrofit	471 Pequea Ave	12-3-1.1
BMP #10 - PB-3B - Pri. Basin Retrofit 2	Basin Retrofit	Red Oak Court	12-1-42.1
BMP #11 - PB-3C - Pri. Basin Retrofit 3	Basin Retrofit	450 Pequea Ave	12-3-2
BMP #12 - SS-29 - Pri. Basin Retrofit 4	Basin Retrofit	400 Cahill Circle	12-4-52

BMP #13 - HB Twp - Farm 1 Crop Residue	FS4 - Crop Residue	1624 Cambridge Rd	22-7-85.1A
BMP #14 - HB Twp - Farm 2 Crop Residue	FS4 - Crop Residue	3726 Horseshoe Pike	22-7-77
BMP #15 - HB Twp - Farm 3 Crop Residue	FS4 - Crop Residue	2050 Cambridge	22-7-83
BMP #16 - HB Twp - Farm 4 Crop Residue	FS4 - Crop Residue	2086/2098 Cambridge	22-7-81 & 22-7-82

Internal Review and Recommendations

Table E-2 Pollutant Load Reductions for Proposed BMPs for Central Planning Area

BMP Description	BMP	Year Installed	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	TSS Reduction (lbs/yr)
BMP #1 - HB Twp - Fisher Farm Riparian Buffer	Forest Buffer with Exclusion Fencing	2019	25.24	4.97	6,314
BMP #2 - HB Twp - Vet Hospital Bioswale	Bioswale	2022	27.76	3.81	6,620
BMP #3 - HB Twp - Suplee Road Bioswale	Bioswale	N/A	106.03	14.58	25,345
BMP #3A - HB Twp - Suplee Road Bioswale	Bioswale	N/A	8.03	1.10	1,919
BMP #3B - HB Twp - Suplee Road Bioswale	Bioswale	N/A	7.77	1.07	1,857
BMP #3C - HB Twp - Suplee Road Bioswale	Bioswale	N/A	15.59	2.14	3,727
BMP #4 - HB Twp - Stoltzfus Farm Bioswale	Bioswale	N/A	82.31	11.32	19,674
BMP #4D - HB Twp - Stoltzfus Farm Bioswale	Bioswale	N/A	5.23	0.72	1,251
BMP #4E - HB Twp - Stoltzfus Farm Bioswale	Bioswale	N/A	6.11	0.84	1,461
BMP #4F - HB Twp - Stoltzfus Farm Bioswale	Bioswale	N/A	16.37	2.25	3,913
BMP #5 - SS-4 - Mun. Basin Retrofit 1	Basin Retrofit	N/A	88.16	12.09	21,026
BMP #6 - SS-25 - Mun. Basin Retrofit 2	Basin Retrofit	N/A	64.79	8.89	15,454
BMP #7 - SS-27 - Mun. Basin Retrofit 3	Basin Retrofit	N/A	66.66	9.14	15,898
BMP #8 - SS-11 - Mun. Basin Retrofit 4	Basin Retrofit	N/A	1.41	0.83	417
BMP #9 - PB-3A - Pri. Basin Retrofit 1	Basin Retrofit	N/A	0.09	0.04	95
BMP #10 - PB-3B - Pri. Basin Retrofit 2	Basin Retrofit	N/A	0.50	0.29	147
BMP #11 - PB-3C - Pri. Basin Retrofit 3	Basin Retrofit	N/A	20.50	3.44	9,696
BMP #12 - SS-29 - Pri. Basin Retrofit 4	Basin Retrofit	N/A	7.00	0.96	1,674
BMP #13 - HB Twp - Farm 1 Crop Residue	FS4 - Crop Residue	N/A	TBD	TBD	TBD
BMP #14 - HB Twp - Farm 2 Crop Residue	FS4 - Crop Residue	N/A	TBD	TBD	TBD
BMP #15 - HB Twp - Farm 3 Crop Residue	FS4 - Crop Residue	N/A	TBD	TBD	TBD
BMP #16 - HB Twp - Farm 4 Crop Residue	FS4 - Crop Residue	N/A	TBD	TBD	TBD
Total			549.56	78.51	136,488

Internal Review and Recommendations

Table E-3 Central Planning Area Load Summary with Proposed BMPs

	Pollutant Loads for Combined Central Planning Area		
	TN (lbs/yr)	TP (lbs/yr)	TSS (lbs/yr)
Total TMDL Load Reduction Required	1,036.1	243.0	260,998
Applied TMDL Load Reduction (Existing BMPs)	0	0	0
Revised Existing Load Reduction Required for MS4 Permit Term (3%TN,5%TP,10%TSS)	82.2	29.5	76,361
Proposed MINIMUM BMP Reduction during MS4 Permit Term	82.2	29.5	76,361
Remaining MS4 Required Reduction after Proposed BMPs (3%TN,5%TP,10%TSS)	0	0	0
Remaining Required TMDL Reduction for Next Permit Term*	953.8	213.5	184,637

Table E-4 Required Pollution Load Reduction for Planning Areas

	Total Nitrogen (TN) (lbs/yr)	Total Phosphorus (TP) (lbs/yr)	TSS (Sediment) (lbs/yr)
Total Load to Pequea Creek/ Chesapeake Bay	3656.39	121.69	85,754.14
Required Reduction (3% TN, 5% TP, 10% Sediment)	109.69	6.08	8,575.41

Table E-5 Pollutant Load Reduction by BMPs for Township's Western Planning Area

BMP Description	BMP	Year Installed	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	TSS Reduction (lbs/yr)
BMP #17 - Bioswale (Evergreen Ridge, Lots 28-30 & 33) in location of existing grass swale	Bioswale	2023	360.06	13.54	10,647.68
Total			360.06	13.54	10,647.68

Table E-6 Selected Best Management Practices (BMPs) to Achieve Required Load Reductions

BMP Name	BMP Type	BMP Location	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	TSS Sediment Reduction (lbs/yr)
BMP #1	Forested Buffer with Exclusion Fencing	Fisher Farm, 2050 Cambridge Rd (UPI 22-7-83)	25	5.0	5,998
BMP #2	Bioswale	Vet Hospital, 3784 Horseshoe Pike (UPI 22-7-73.1A)	28	3.8	7,446
Selected from BMPs #3-#15 list in Table E-2 - Minimum reductions			29	20.7	63,427
Total Load Reduction Provided (Central)			82	29.5	76,361
BMP #17	Bioswale	Evergreen Ridge Development, Pine Tree/Blue Spruce/Beaver Dam (UPIs 22-9-39.25M,N,P&S)	360	13.5	10,647
Total Load Reduction Provided (Western)			360	13.5	10,647

Internal Review and Recommendations

Table F-1 Estimated BMP Costs and Funding

Proposed BMP	Property Owner	Funding	Total Estimated Design & Construction Cost
Central Planning Area			
BMP #1 - Forested Buffer with Fencing - Fisher Farm UPI 22-7-83	Private Landowner	EQUIP/ Borough/ Township/ Brandywine Conservancy	\$17,765 Actual Cost
BMP #2 - Bioswale - Vet Hospital UPI 22-7-73.1A	Private Landowner	Grants /Borough/ Township	\$18,938 Actual Cost
BMP #3 - Bioswale - 149/173 Suplee Road UPIs 22-7-2 & 22-7-2.1	Township / Private Land Owners	Borough/Township/ Grants	\$45,000
BMP 3A - Subswale	Private Land Owner	Borough/Township/ Grants	\$12,250
BMP 3B - Subswale	Private Land Owner	Borough/Township/ Grants	\$15,000
BMP 3C - Subswale	Private Land Owner	Borough/Township/ Grants	\$17,750
BMP #4 - Bioswale - Stoltzfus Farm UPI 22-4-64.1	Private Landowner	EQUIP/Grants	\$48,000
BMP 4D - Subswale	Borough / Private Land Owner	Borough/Township/ Grants	\$9,000
BMP 4E - Subswale	Private Land Owner	Borough/Township/ Grants	\$14,000
BMP 4F - Subswale	Private Land Owner	Borough/Township/ Grants	25,000
BMP #5 - SS-4 - Mun. Basin Retrofit 1	Borough	Grants / Borough / Township	\$31,750
BMP #6 - SS-25 - Mun. Basin Retrofit 2	Borough	Grants / Borough / Township	\$28,750
BMP #7 - SS-27 - Mun. Basin Retrofit 3	Borough	Grants / Borough / Township	\$57,000
BMP #8 - SS-11 - Mun. Basin Retrofit 4	Borough	Grants / Borough / Township	\$34,500
BMP #9 - PB-3A - Pri. Basin Retrofit 1	Private Landowner	Grants / Borough / Township	\$5,000
BMP #10 - PB-3B - Pri. Basin Retrofit 2	Private Landowner	Grants / Borough / Township	\$5,000
BMP #11 - PB-3C - Pri. Basin Retrofit 3	Private Landowner	Grants / Borough / Township	\$43,000

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BMP #12 - SS-29 - Pri. Basin Retrofit 4	Private Landowner	Grants / Borough / Township	\$30,250
4 Farms - Crop Residue	Private Landowner	Grants / Landowner	TBD
Western Planning Area			
BMP #17 - Bioswale – Evergreen Ridge	Private Landowners	Township	\$31,528