pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PAI130526**
Facility Type	**MS4**	APS ID	**952579**
Permit Type	**Individual**	Authorization ID	**1202355**

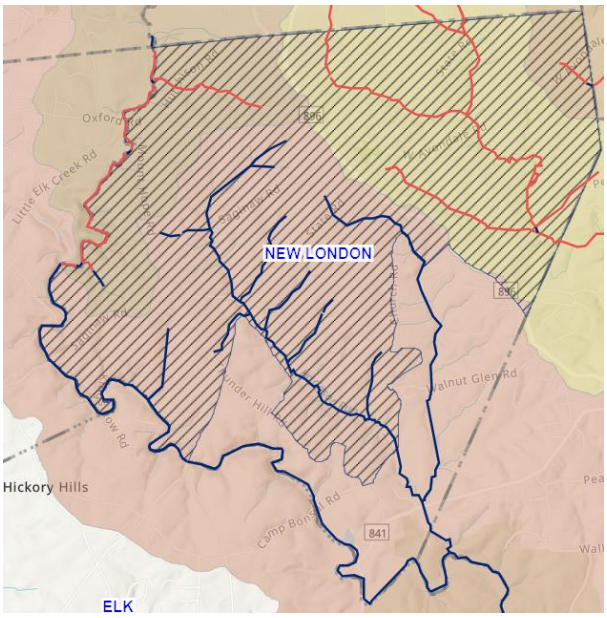
NPDES PERMIT FACT SHEET
MS4s

Applicant and Facility Information

Applicant Name	**New London Township Chester County**	Facility Name	**New London Township MS4 UA**
Applicant Address	902 State Road PO Box 1002	Facility Address	PO Box 1002 902 State Road
	New London, PA 19360-1002		New London, PA 19360
Applicant Contact	MAUREEN ZDUN	Facility Contact	MAUREEN ZDUN
Applicant Phone	(610) 869-8568	Facility Phone	(610) 869-8568
Client ID	68009	Site ID	614298
SIC Code	9199	Municipality	New London Township
SIC Description	Public Admin. - Genral Government, Nec	County	Chester
Date Application Received	September 15, 2017		
Date Application Accepted			

Purpose of Application: Permit Renewal.

Internal Review and Recommendations



Approve	Deny	Signatures	Date
x		*Carrie Konnovitch* Carrie M Konnovitch, P.E. / Environmental Engineer Trainee	October 18, 2024
x		*Elizabeth Mahoney* Elizabeth A Mahoney / Environmental Group Manager	10/18/2024

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.

MS4 Name	Permit Number	HUC 12 Name	Impaired Downstream Waters or Applicable TMDL Name	Requirement(s)
Chester County				
NEW LONDON TWP	PAI130526	Big Elk Creek, East Branch Big Elk Creek	Chesapeake Bay Nutrients\Sediment, East Branch Big Elk Creek	Appendix D-Siltation/Nutrients, Appendix E-Organic Enrichment/Low D.O.
		Middle Branch White Clay Creek, Upper White Clay Creek, West Branch White Clay Creek	Christina River Basin Nutrients, Christina River Basin Sediment, Middle Branch White Clay Creek, West Branch White Clay Creek, White Clay Creek	Appendix B-Pathogens, TMDL Plan-Nutrients, Organic Enrichment/Low D.O., Siltation, Suspended Solids

White Clay Creek Watershed	Sediment (tons/year)				Total Nitrogen (kg/day)				Total Phosphorus (kg/day)			
	Baseline MS4 Load[1d.]	MS4 Load Allocation[1d.]	MS4 Load Reduction[1e.]	% Reduction[1d.]	Baseline MS4 Load[2l.]	MS4 Allocation[2c.]	MS4 Load Reduction[2m.]	% Reduction[2m.]	Baseline MS4 Load[2l.]	MS4 Allocation[2f.]	MS4 Load Reduction[2m.]	% Reduction[2m.]
NEW LONDON TWP	1913.97	1,008.60	905.37	47.30%	53.56	26.61	26.95	50.32%	0.65	0.292	0.358	55.08%

Table 4 – New London Township PRP Existing Load Calculation Summary

Existing Sediment Baseload w/o Existing BMPs						
Watershed	Total Area	Impervious Area		Pervious Area		TSS Load
	AC	AC	LBS/YR	AC	LBS/YR	LBS/YR
Big Elk	334	45	68,152	289	53,519	121,671
EB Big Elk	314	38	57,194	276	51,084	108,278
Hodgson	512	76	113,846	437	80,840	194,686
Total	**1,161**	**159**	**239,192**	**1,002**	**185,443**	**424,635**

Table 5 – New London Township PRP Existing Load Calculation with Existing BMPs

Existing Sediment Baseload w/o Existing BMPs							Baseload w/ BMPs
Watershed	Total Area	Impervious Area		Pervious Area		TSS Load	TSS Load
	AC	AC	LBS/YR	AC	LBS/YR	LBS/YR	LBS/YR
Big Elk	334	45	68,152	289	53,519	121,671	118,461
EB Big Elk	314	38	57,194	276	51,084	108,278	105,564
Hodgson	512	76	113,846	437	80,840	194,686	170,761
Total	**1,161**	**159**	**239,192**	**1,002**	**185,443**	**424,635**	**394,786**

Internal Review and Recommendations

Table 6 - 1995 Land Use Baseline TSS Load Calculations.

SOURCE	AREA	TOTAL SEDIMENT LOADING RATE	TOTAL SEDIMENT	TOTAL NITROGEN LOADING RATE	TOTAL NITROGEN	TOTAL PHOSPHOROUS LOADING RATE	TOTAL PHOSPHORUS
UNITS	ACRES	LBS/ACRE	LBS	LBS/ACRE	LBS	LBS/ACRE	LBS
Hay/Pasture	0	182	0	1	0	0	0
Cropland	260	1,499	389,939	6	1,550	2	408
Forest	41	111	4,528	0	6	0	2
Water/Wetland	0	98	0	0	0	0	0
Disturbed	0	141	0	0	0	0	0
Turfgrass	0	0	0	0	0	0	0
Open Land	12	231	2,744	1	13	0	1
Bare Rock	0	0	0	0	0	0	0
Sandy Areas	0	0	0	0	0	0	0
Unpaved Roads	0	0	0	0	0	0	0
Ld Mixed	0	601	0	1	0	0	0
Md Mixed	3	1,451	4,873	6	21	1	3
Hd Mixed	0	2,056	532	7	2	1	0
Ld Residential	216	616	133,166	2	354	0	54
Md Residential	0	1,464	720	7	3	1	0
Hd Residential	0	2,068	0	7	0	1	0
TOTAL	**533**		**536,503**		**1,950**		**469**

Table 7 - 2012 Land Use TSS Load Calculations.

SOURCE	AREA	TOTAL SEDIMENT LOADING RATE	TOTAL SEDIMENT	TOTAL NITROGEN LOADING RATE	TOTAL NITROGEN	TOTAL PHOSPHOROUS LOADING RATE	TOTAL PHOSPHORUS
UNITS	ACRES	LBS/ACRE	LBS	LBS/ACRE	LBS	LBS/ACRE	LBS
Hay/Pasture	0	183	0	1	0	0	0
Cropland	210	1,492	312,762	6	1,224	2	314
Forest	26	163	4,176	0	4	0	1
Water/Wetland	1	149	177	0	1	0	0
Disturbed	15	226	3,339	0	4	0	2
Turfgrass	3	186	596	1	4	1	2
Open Land	0	303	0	1	0	0	0
Bare Rock	0	0	0	0	0	0	0
Sandy Areas	0	0	0	0	0	0	0
Unpaved Roads	0	0	0	0	0	0	0
Ld Mixed	0	595	0	1	0	0	0
Md Mixed	1	1,354	1,543	7	8	1	1
Hd Mixed	6	1,906	12,027	8	48	1	6
Ld Residential	271	600	162,686	2	425	0	65
Md Residential	0	1,348	0	6	0	1	0
Hd Residential	0	1,906	0	7	0	1	0
TOTAL	**533**		**497,306**		**1,718**		**392**

Table 8 – Revised TSS Load Reduction Calculation.

Required Reduction	Revised (1995) TMDL Baseline Load	Reduction Based on the Revised (1995) Baseline Load	2012 Load w/ Land Use Reduction	Reduction Due to Land Use Changes
	a		b	(a-b)
Percent	lbs./yr.	lbs./yrs.	lbs./yr.	lbs./yr.
47.30%	**536,503**	**253,766**	**497,306**	**39,197**

Internal Review and Recommendations

Table 9 – Existing BMP Load Reduction Calculations.

BMP FACILITY_ID	Latitude	Longitude	Year Installed	Sewershed ID	Total Area	Total Load	Total Sediment Load with Existing BMPs		
					AC	LBS/YR	BMP Type	Removal	LBS/YR
NLT_BMP_45	39° 47' 13.281" N	75° 52' 33.994" W	1992	NLT_Ss_101	7	4,450	Detention Basin	10.0%	4,005
NLT_BMP_78	39° 47' 22.198" N	75° 52' 40.488" W	1992	NLT_Ss_102	8	4,937	Detention Basin	10.0%	4,443
NLT_BMP_79	39° 47' 25.823" N	75° 52' 34.121" W	1992	NLT_Ss_103	4	2,617	Detention Basin	10.0%	2,355
NLT_BMP_80	39° 47' 26.624" N	75° 52' 26.498" W	1992	NLT_Ss_104	10	6,169	Detention Basin	10.0%	5,552
NLT_BMP_76	39° 47' 19.219" N	75° 52' 17.373" W	1992	NLT_Ss_105	20	12,166	Infiltration Basin	95.0%	608
NLT_BMP_58	39° 46' 38.413" N	75° 51' 22.054" W	1999	NLT_Ss_12	16	9,457	Detention Basin	10.0%	8,512
NLT_BMP_77	39° 47' 24.597" N	75° 52' 48.508" W	1992	NLT_Ss_124	27	17,350	Wet Pond	60.0%	6,940
NLT_BMP_74	39° 47' 41.023" N	75° 50' 57.462" W	1999	NLT_Ss_140	5	3,084	Detention Basin	10.0%	2,776
NLT_BMP_75	39° 47' 43.770" N	75° 51' 4.667" W	1999	NLT_Ss_141	4	2,180	Detention Basin	10.0%	1,962
NLT_BMP_71	39° 46' 12.614" N	75° 51' 10.672" W	2002	NLT_Ss_157	12	9,053	Detention Basin	10.0%	8,148
NLT_BMP_72	39° 46' 22.655" N	75° 51' 12.558" W	2002	NLT_Ss_159	8	6,453	Detention Basin	10.0%	5,808
NLT_BMP_56	39° 46' 31.991" N	75° 51' 37.537" W	1999	NLT_Ss_165	13	6,770	Detention Basin	10.0%	6,093
NLT_BMP_57	39° 46' 42.297" N	75° 51' 33.441" W	1999	NLT_Ss_75	6	3,675	Detention Basin	10.0%	3,308
NLT_BMP_82	39° 47' 16.810" N	75° 51' 35.352" W	2008	NLT_Ss_95	13	12,149	Detention Basin	0.0%	12,149
NLT_BMP_88	39° 47' 8.594" N	75° 52' 26.038" W	2010	NLT_Rd_195	0	378	Detention Basin	0.0%	378
				2012 Totals:	**533**	**497,306**			**469,454**

Table 10 – Revised Required Load Reduction Calculation

Required Reduction	Revised (1995) TMDL Baseline Load	Reduction Based on the Revised (1995) Baseline Load	2012 Load w/ Land Use Reduction	Reduction Due to Land Use Changes	Existing Load w/ Land Use and Existing BMP Reduction	Reduction Due to Existing BMPs	Remaining TMDL Load Reduction Required
	a		b	(a-b)	c	(b-c)	(a-b-c)
Percent	lbs./yr.	lbs./yrs.	lbs./yr.	lbs./yr.	lbs./yr.	lbs./yr.	lbs./yr.
47.30%	**536,503**	**253,766**	**497,306**	**39,197**	**469,454**	**27,852**	**186,717**

Table 11 – Waste Load Allocation Comparison.

Waste Load Allocation Analysis					
	Baseline MS4 Load	Baseline MS4 Load	MS4 Load Allocation	MS4 Load Reduction	Reduction
	(lbs./yr.)	(tons/yr.)	(tons/yr.)	(tons/yr.)	%
PADEP/EPA TMDL	3,827,940	1,913.97	1,008.60	905.37	47.30
London Britain TMD	536,503	268.25	141.37	126.88	47.30

Table 12 – Proposed BMP Estimated Load Reduction.

BMP FACILITY_ID	Sewershed ID	Total Area	Total Load	Total Sediment Load with Existing BMPs			Total Sediment Load with Existing and Proposed BMPs		
		AC	LBS/YR	BMP Type	Removal	LBS/YR	BMP Type	Removal	LBS/YR
NLT_BMP_45	NLT_Ss_101	7	4,450	Detention Basin	10.0%	4,005	Extended Detention	60.0%	1,780
NLT_BMP_78	NLT_Ss_102	8	4,937	Detention Basin	10.0%	4,443	Extended Detention	60.0%	1,975
Proposed	NLT_Rd_132	2	2,132	No BMP	0.0%	2,132		95.0%	107
Proposed	NLT_Rd_133	5	6,484	No BMP	0.0%	6,484	Infiltration Berm	95.0%	324
Proposed	NLT_Rd_134	2	2,331	No BMP	0.0%	2,331		95.0%	117
Proposed	NLT_Rd_41	5	7,165	No BMP	0.0%	7,165	Vegetated Swale	50.0%	3,582
	2012 Totals:	**533**	**496,928**			**469,076**			**449,186**