

## VIII. Wastewater Facilities by Municipality: Sparta Township

2010 Population = 19,722  
Land Area = 37.39 square miles

2010 Population Density = 527 persons/sq. mile

This is an element of the Sussex County Wastewater Management Plan prepared by Sussex County Planning Division in accordance with N.J.A.C. 7:15.

### Existing and Proposed Wastewater Infrastructure

A portion of Sparta Township is in the sewer area of the Sussex County Municipal Utilities Authority.

Facilities with discharge to surface water are regulated by individual New Jersey Pollutant Discharge Elimination System (NJPDES) Permits, and facilities with discharge to ground water over 2,000 gallons per day have either an individual NJPDES Permit or a General T-1 Permit, listed in Table A.

#### North Village at Sparta

The approved sewer service area is located at Route 15 and White Lake Road. The proposed project consists of a mixed-use center with 238 residential units, retail and office space, restaurant, hotel, and athletic club, and a projected wastewater flow of 120,000 gallons per day (gpd) discharge to ground water. The owner/operator of the proposed wastewater treatment is CC Holdings, LLC and a franchise area would need to be established by Sparta Township, and NJ Board of Public Utilities jurisdiction would apply.

#### Sparta Township - White Deer Plaza

This existing wastewater treatment facility (NJPDES Permit No. NJ0027057), located at the north end of Lake Mohawk, serves the downtown commercial areas and the Knoll Heights Senior Citizens Complex. The current annual average flow for this facility is 38,000 GPD and the projected future annual average flow for this facility is 50,000 GPD. The treated wastewater is discharged to the Walkill River classified as FW2-NT, and the treatment plant is owned by Sparta Township. The Township of Sparta is pursuing options relating to the transfer of the 50,000 GPD to the Upper Walkill treatment facility operated by the SCMUA, and preliminary discussions are ongoing.

#### Sparta Township - Alpine Elementary School

This existing wastewater treatment facility (NJPDES Permit No. NJ0027065), located on Andover Road, serves the Alpine Elementary School. The permitted annual average flow of this facility is 25,000 GPD. The treated wastewater is discharged to a tributary of the Pequest River classified as FW2-NT. The treatment plant is owned by the Sparta Township Board of Education.

#### Sparta Township - Pope John XXIII High School

This existing wastewater treatment facility (NJPDES permit No.NJ0027049), located on Andover Road, serves the Pope John XXIII High School, Our Lady of the Lake Church, and Reverend George A. Brown School, and a proposed Middle School. The permitted annual average flow for this facility is 22,000 GPD. The treated wastewater is discharged to an unnamed tributary to Fox Hollow Lake, tributary to the Paulins Kill. This facility is owned by Pope John XXIII High School.

#### Sparta Township - Sussex County Technical School

This existing wastewater treatment facility (NJPDES Permit No. NJ0050806) serves the Sussex County Technical School, located on Route 94. The permitted annual average flow is 18,000 GPD. The treated wastewater is discharged to ground water. This facility is owned by the Sussex County Technical School.

#### Sparta Township -Lake Mohawk Golf Club

The proposed wastewater treatment facility would serve the Lake Mohawk Golf Club. The individual subsurface sewage disposal systems are owned and operated by the Club. Lake Mohawk Golf Club had a Wastewater Plan Amendment approved in the past for a proposed NJPDES Permit that would serve a proposed new pro shop facility of 2,000 square feet, expansion of the existing clubhouse, the construction of a new maintenance building with a separate septic field, and the relocation of an existing septic field, with a proposed total wastewater design flow of 5,350 gallons per day (gpd) discharge to groundwater.

#### Sparta Township – Morris Lake Water Treatment Plant

This facility (NJPDES Permit No. NJ0136603) is located at the Morris Lake reservoir, off of Glen Road in Sparta, which provides the water supply for the Town of Newton. The water filtration system treats the raw water from its intake, and the wastewater from the membrane filter backwash is discharged back into Morris Lake. The permitted average annual flow is 200,000 GPD, and the facility is owned and operated by the Town of Newton.

#### Sparta Township - Blue Heron Senior Housing

This proposed wastewater treatment facility (NJPDES Permit No. NJ0077127) would be designed to serve the planned senior housing development of 256 units (both independent and assisted living) on Blue Heron Road, off Route 15. The permitted annual average flow for this facility is 26,000 GPD, and the treated wastewater will be discharged to ground water. The treatment plant will be owned by DTH 15, LLC.

The following table lists facilities typically constructed in years prior to State regulations, and are governed by a State DEP T-1 Permit, which is a “General Permit for Sanitary Subsurface Disposal” for discharges greater than 2,000 gallons per day.

**Table A - Existing NJPDES T-1 Facilities**

<b>NJPDES</b>	<b>Facility Name</b>	<b>Project Summary</b>	<b>Street Address</b>	<b>X Coord.</b>	<b>Y Coord.</b>
NJG0132314	Blue Heron Plaza	Existing 3-story office building	60 Blue Heron Road		
NJG0139491	Delmar Prof. Building	Multi-use bldg.. with offices, 2 apts.	200 Woodport Rd	456298	797630
NJG0102768	Greentree Village Townhomes	99 townhouse units with recreation	Sparta-Stanhope Rd	446731	809467
NJG0234940	Andres Restaurant	Restaurant	112 Tomahawk Trail		
NJG0242691	Upper Lake Plaza	Commercial	270 Sparta Ave	447207	801507

**Build-out in Septic Areas and DEP Nitrate Dilution Model**

In running the DEP Build-out Model, all undeveloped land was included as available for nitrate dilution for future septic density. Based on existing zoning, the projected number of New Septics at build-out will not exceed the DEP maximum New Septics Allowed based on nitrate dilution and maintaining 2 mg/L ground water quality.

DEP recognizes that their Build-out Model is approximate, so the results can be adjusted by a range of 10% when comparing Total New Septics Allowed with Total New Zoned Septics (see pages 36 – 39 of the County WMP).

The NJDEP Build-out Model should be viewed as a rough indicator. The Model includes variables with a range of values (such as household size) and assumes that existing zoning would not change. It is a regional planning tool with just one focus: to identify possible areas of future stresses on ground water quality. The number of maximum allowable units is a theoretical number, and local municipal plans could provide for much less growth. It is not meant to replace or override the local perspective.

### **Build-out and Sewer Capacity Analysis**

Sparta Twp. has a wastewater collection system and 3 pump stations that serves a portion of the municipality and conveys wastewater flow to the Upper Walkkill SCMUA facility.

A build-out analysis looks at the acreage of land available for development (i.e., either undeveloped or underdeveloped, and not constrained due to environmentally sensitive areas) within each general zone of the municipality. It is useful to compare the SCMUA allocation amount, existing flow and build-out flow to evaluate whether additional wastewater capacity would be needed in the future. In the past, Sparta Township did a build-out analysis as part of their previous Municipal Wastewater Plan, and as part of the Center Designation process.

Sparta Twp. will update their build-out analysis as part of their Scope of Work with the Highlands Council for their Water Conservation Plan.

## **Municipal Chapter – Sparta Township Wastewater Facilities Tables**

The wastewater facility tables for all sanitary and/or process wastewater discharge to surface water facilities and those sanitary/ and/or process wastewater discharge to groundwater facilities discharging greater than 2000 gallons per day (i.e., requiring NJPDES permits) are listed below, based on whether they are domestic or industrial wastewater treatment facilities, and whether they have service areas that affect more than one municipality.

**On-Site Domestic Treatment Facilities**– These facilities are listed in the following Tables.

**Industrial Wastewater Facilities** – These facilities are listed in following Tables.

**ON-SITE DOMESTIC TREATMENT FACILITIES  
FACILITY NAME: ALPINE SCHOOL**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0027065	
3. Discharge to ground water (DGW) or surface water (DSW):	DSW	
4. Receiving water or aquifer:	Tributary of Wallkill River	
5. Classification of receiving water or aquifer:	FW2-NT	
6. Owner of facility:	Sparta Twp. Board of Education	
7. Operator of facility:	Sparta Twp. Board of Education	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Sparta, Sussex County	
b. Street address	15 Andover Road	
c. Block(s) and Lot(s)		
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude __74 40' 37	
	b. Latitude 40 01' 20 or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.025 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2015) Population	Build-out Population
<b>Total</b>		900
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2015) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow	0.015	0.025
Commercial flow		
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>	<b>0.015</b>	<b>0.025 MGD</b>

**ON-SITE DOMESTIC TREATMENT FACILITIES**  
**FACILITY NAME: POPE JOHN XXIII HIGH SCHOOL**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0027049	
3. Discharge to ground water (DGW) or surface water (DSW):	DSW	
4. Receiving water or aquifer:	Tributary to Fox Hollow Lake	
5. Classification of receiving water or aquifer:	FW2-NT	
6. Owner of facility:	Pope John XXIII High School	
7. Operator of facility:	Pope John XXIII High School	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Sparta, Sussex County	
b. Street address	28 Andover Road	
c. Block(s) and Lot(s)		
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude __ 74 38' 00	
	b. Latitude 41 02' 10 or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.022 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2015) Population	Build-out Population
<b>Total</b>		1,300
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2015) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow		0.022
Commercial flow		
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>	<b>0.016</b>	<b>0.022 MGD</b>

**ON-SITE DOMESTIC TREATMENT FACILITIES**  
**FACILITY NAME: MORRIS LAKE WATER TREATMENT PLANT**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0136603	
3. Discharge to ground water (DGW) or surface water (DSW):	DSW	
4. Receiving water or aquifer:	Morris Lake	
5. Classification of receiving water or aquifer:	FW2-NT (C-1)	
6. Owner of facility:	Town of Newton	
7. Operator of facility:	Town of Newton	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Sparta, Sussex County	
b. Street address	Morris Lake Road	
c. Block(s) and Lot(s)		
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude __ 74 36' 28.8	
	b. Latitude __ 41 02' 36.5 or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.2 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2015) Population	Build-out Population
<b>Total</b>		
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2015) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow		
Commercial flow		
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>		<b>0.2 MGD</b>



**ON-SITE DOMESTIC TREATMENT FACILITIES  
FACILITY NAME: WHITE DEER PLAZA STP**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ 0027057	
3. Discharge to ground water (DGW) or surface water (DSW):	DSW	
4. Receiving water or aquifer:	Walkkill River	
5. Classification of receiving water or aquifer:	FW2-NT	
6. Owner of facility:	Sparta Township	
7. Operator of facility:	Sparta Township	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Sparta Township, Sussex County	
b. Street address	Alder Drive and Church Lane	
c. Block(s) and Lot(s)		
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude 74° 38' 34"	
	b. Latitude or 40° 02' 04"	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.050 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2015) Population	Build-out Population
<b>Total</b>		
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2015) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow		
Commercial flow		
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>	<b>0.038 MGD</b>	<b>0.050 MGD</b>

**ON-SITE DOMESTIC TREATMENT FACILITIES**  
**FACILITY NAME: SUSSEX COUNTY TECHNICAL SCHOOL WTP**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0050806	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Germany Flats Aquifer	
5. Classification of receiving water or aquifer:		
6. Owner of facility:	Sussex County Technical School	
7. Operator of facility:	Sussex County Technical School	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Sparta Township, Sussex County	
b. Street address	105 North Church Road	
c. Block(s) and Lot(s)		
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude 74° 39' 18"	
	b. Latitude 40° 05' 37" or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.018 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2015) Population	Build-out Population
<b>Total</b>		1,800 students
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2015) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow		0.018
Commercial flow		
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>		<b>0.018 MGD</b>

**ON-SITE DOMESTIC TREATMENT FACILITIES**  
**FACILITY NAME: BLUE HERON SENIOR HOUSING**

1. Existing or proposed facility:	Proposed	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0077127	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Precambrian gneiss	
5. Classification of receiving water or aquifer:	GW-2	
6. Owner of facility:	Glendon Development Corporation	
7. Operator of facility:	To Be Determined	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Sparta Township, Sussex County	
b. Street address	86 Blue Heron Road	
c. Block(s) and Lot(s)	Block 37001 Lot 1 (Former tax lot number Block 6 Lot 127)	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude 74° 36' 50"	
	b. Latitude 41° 01' 02" or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.026 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2015) Population	Build-out Population
<b>Total</b>		266 senior housing units
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2015) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow		0.0213
Commercial flow		0.0047
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>	<b>0</b>	<b>0.026 MGD</b>

**ON-SITE DOMESTIC TREATMENT FACILITIES**  
**FACILITY NAME: NORTH VILLAGE AT SPARTA**

1. Existing or proposed facility:	Proposed	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	Proposed	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:		
5. Classification of receiving water or aquifer:		
6. Owner of facility:	CC Holdings, LLC	
7. Operator of facility:	To Be Determined	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Sparta, Sussex County	
b. Street address	Route 15 and White Lake Road	
c. Block(s) and Lot(s)	Block 26 Lot 42; Block 31 Lots 1 and 1.01	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude _____	
	b. Latitude _____ or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.120 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2015) Population	Build-out Population
<b>Total</b>	<b>0</b>	
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2015) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow	0	0.0638
Commercial flow	0	0.0562
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>	<b>0</b>	<b>0.120 MGD</b>