



208 Water Quality Management Plan

2022

Adopted by the Santee-Lynches Council of Governments Board of Directors

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I. INTRODUCTION

The Federal Water Pollution Control Act of 1972, amended in 1977 and 1987 and referred to as the Clean Water Act (CWA), provides a national strategy for reducing polluted discharges and improving water quality. The CWA created a national goal of attaining fishable and swimmable waters in the United States. The United States Environmental Protection Agency (USEPA) establishes technology-based effluent standards for use in achieving this goal.

Section 208 of the Act requires states to designate entities to develop regional wastewater treatment management plans to address water quality issues in their areas. To this end, the Santee-Lynches Regional Council of Governments (Santee-Lynches) serves as the designated Water Quality Planning Agency for the Santee-Lynches region, which includes Clarendon, Kershaw, Lee, and Sumter counties. As the regional water quality planning agency, Santee-Lynches regularly compiles and updates the 208 Water Quality Management Plan (WQMP) for the planning area. The plan was last updated in 2016.

The goal of the Santee-Lynches 208 Water Quality Management Plan is to protect water quality in the region. The plan provides a regional approach to protecting water quality by identifying water quality concerns and water quality management areas, documenting current and future wastewater infrastructure needs, outlining policies that guide the wastewater infrastructure permitting process, and providing administrative procedures to document plan modifications and allow for transparency and public involvement. Policy recommendations for achieving this goal are elaborated in Section II of this plan.

Santee-Lynches joins five other Councils of Governments as Water Quality Planning Agencies for specific regions in South Carolina. Santee-Lynches works closely with the South Carolina Department of Health and Environmental Control (SCDHEC), the state's water quality regulator, in planning for water quality for the region.

II. POLICIES FOR REGIONAL WATER QUALITY MANAGEMENT

Recommended policy steps for management agencies, the planning agency, and all other water quality stakeholders in the region are made here. These recommendations seek to implement the overall goal of the Santee-Lynches 208 Water Quality Management Plan, which is to protect water quality in the region.

Planning Goal: *Protect water quality in the Santee-Lynches region*

Policy Recommendation 1 *Utilize central sewer systems in favor of septic systems*

Septic systems are a commonly used means of waste disposal, especially in residential settings. In more rural areas of the region, individual septic systems are acceptable for disposing of waste. However, if poorly designed or placed in unsuitable conditions, septic systems can have negative impacts on water quality. Therefore, in more urbanized areas of the region, centralized sewer systems should be utilized rather than individual septic systems or community systems, whenever feasible. Additionally, new developments should connect to existing wastewater systems and facilities rather than constructing new systems or treatment works, whenever feasible.

Policy Recommendation 2 *Consolidate wastewater treatment facilities into regional systems*

Through scale economies, regional wastewater facilities can often provide service more effectively and implement treatment technologies more easily than local facilities. Consolidation of facilities should occur, whenever feasible. This policy extends to both public and private wastewater treatment facilities. The closing of the Mayesville Wastewater Treatment Plant and subsequent directing of its flow to the City of Sumter facility is one example of consolidation already underway in the region.

Policy Recommendation 3 *Maintain the Upper Wateree Agreement*

Santee-Lynches will follow all protocols contained in the Upper Wateree Agreement (see Appendix) with respect to information sharing, facilitation, waste load allocation, and general water quality planning. Santee-Lynches encourages all signatories to the agreement to do likewise.

Policy Recommendation 4 *Work proactively to address nonpoint source water pollution issues*

Under the Clean Water Act, point source water pollution is addressed through NPDES permits issued to regulated facilities. Nonpoint source water pollution, in the form of runoff from agricultural fields, impervious surfaces, construction sites, and other sources, can also impact water resources. Local governments, community groups, and other organizations and regional stakeholders can address nonpoint source water pollution in the Santee-Lynches region. Strategies include adopting a watershed-based perspective in local and regional planning efforts, implementing stormwater regulations and related standards, incorporating natural mitigation methods ("nature-based solutions") if feasible, and obtaining federal grant funding.

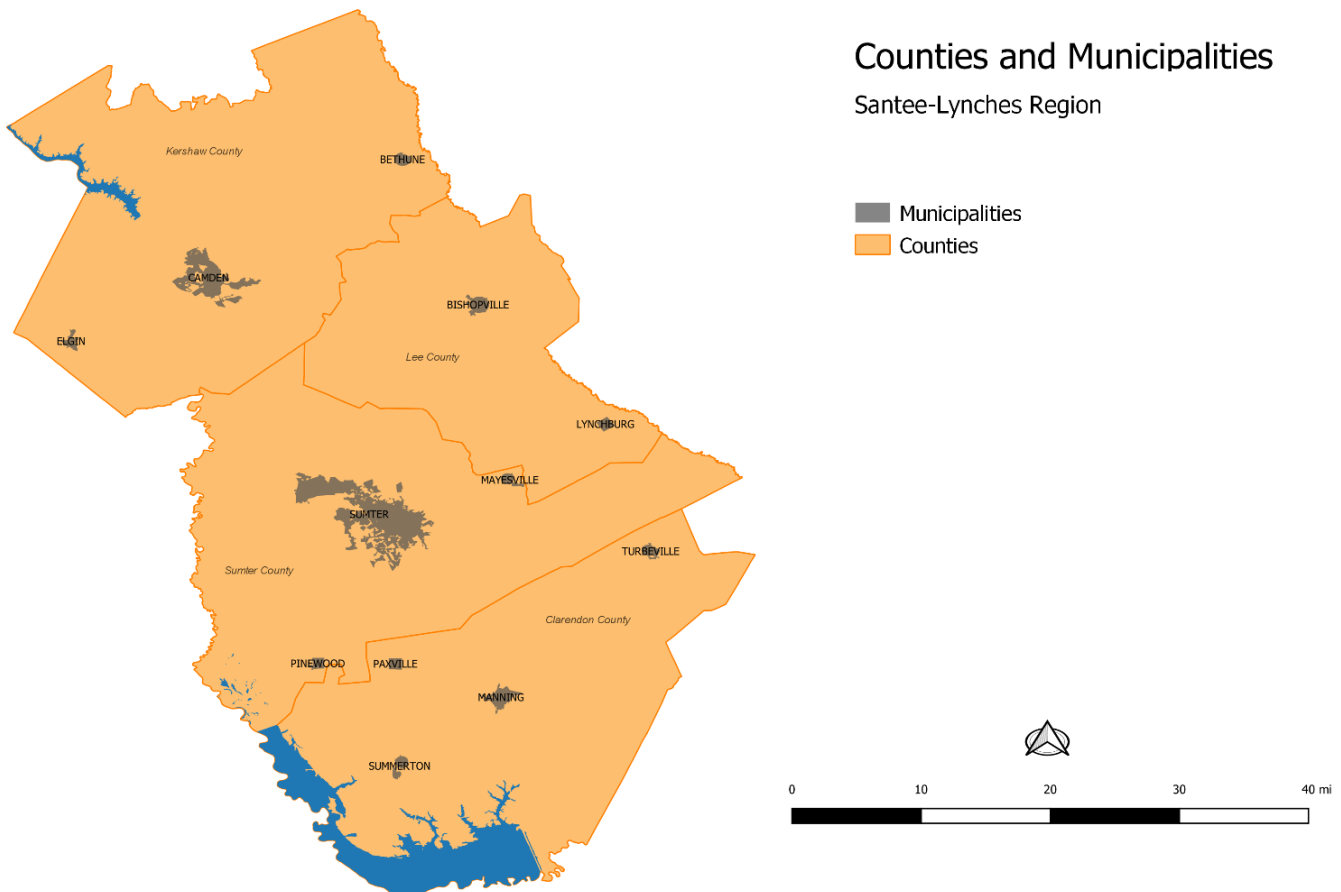
Policy Recommendation 5 *Undertake comprehensive land use planning*

The relationship between land use and water and wastewater demand is well-established. Comprehensive land use planning enables cities and counties to identify future growth and development trends and preferences and to prepare for these accordingly. This includes planning for land development projects that require wastewater treatment and infrastructure. Comprehensive plans also include strategies for protecting facilities and infrastructure from flooding and other natural hazards.

III. DESCRIPTION OF THE REGION

The Santee-Lynches Region is located in the upper coastal plain of South Carolina, and includes areas considered part of the Midlands, Pee Dee, and Lowcountry of South Carolina. Four counties comprise the region, Clarendon, Kershaw, Lee, and Sumter. The region is predominately rural with relatively small areas of urbanization in each county. The total area on the region, including land area and surface waters, is approximately 2,500 square miles.

Map 1. Santee-Lynches Region



The principal urbanized areas in the planning area are the Cities of Bishopville, Camden, Manning, and Sumter, located in Lee, Kershaw, Clarendon, and Sumter Counties, respectively. The City of Sumter, being both centrally located and the largest city in the region, serves as a regional focal point for economic and social activities, and is designated as a metropolitan statistical area (MSA). Bishopville, Camden, and Manning all serve as trade centers within their respective counties. The region is unified by a reciprocal flow of goods, services, and workforce exchange within its boundaries. The region's counties and their respective municipalities are all within either the direct or indirect economic influence of the Columbia MSA.

Land Cover

Table 1 below presents land cover, in square miles, for each of the four counties in the region. Agriculture, forest, and wetlands are the dominant land cover types in the region. The map below shows these land cover types with greater detail.

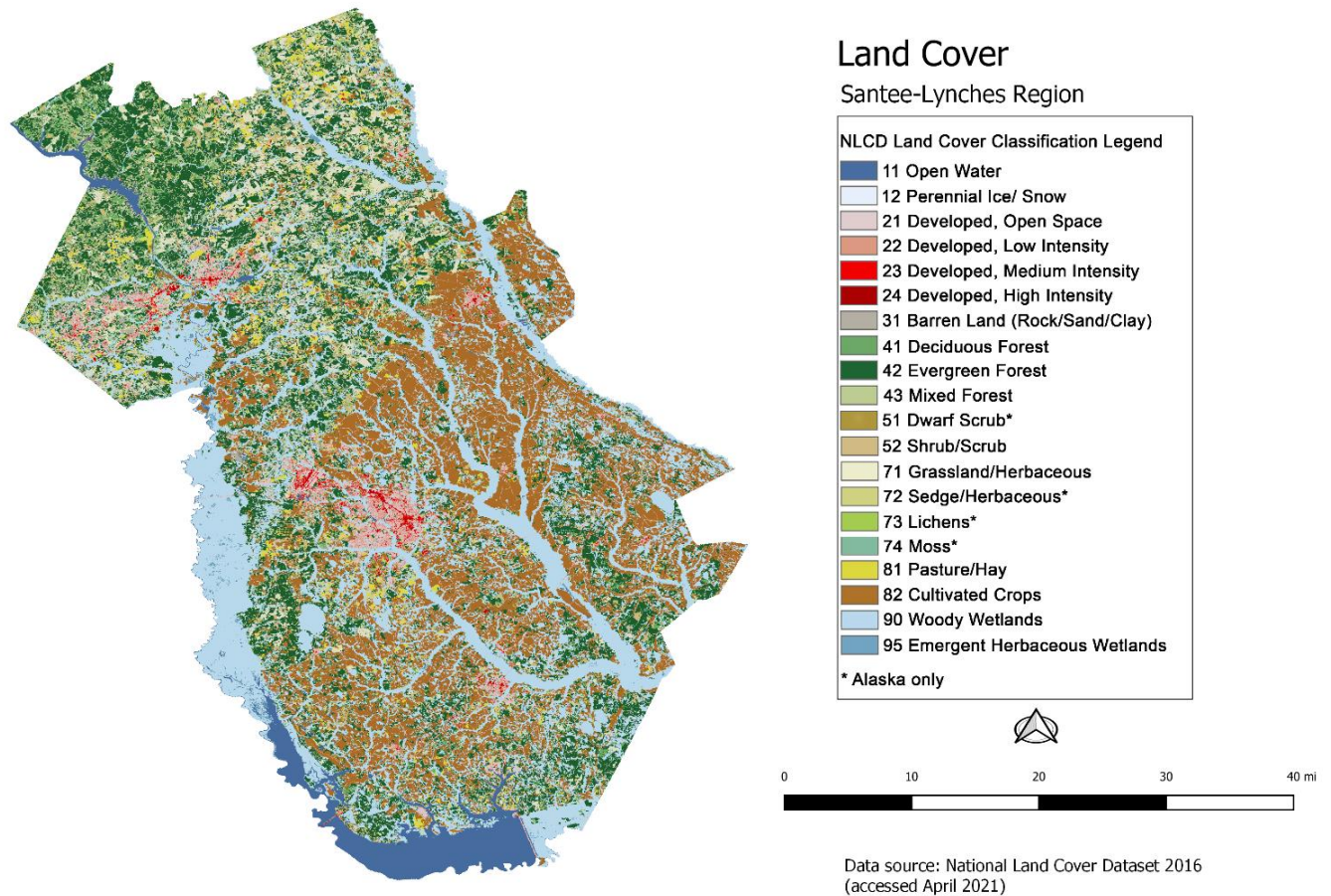
Table 1. Land Cover

Land Cover	Clarendon	% of total land area	Kershaw	% of total land area	Lee	% of total land area	Sumter	% of total land area
Developed	39.25	5.64	61.33	8.28	23.42	5.69	72.73	10.66
Agricultural	191.73	27.56	55.71	7.52	161.24	39.21	179.55	26.32
Grass/shrublands	25.69	3.69	148	19.99	34.13	8.30	33.39	4.89
Forest	134.33	19.30	342.8	46.30	79.008	19.21	125.58	18.41
Barren	0.12	0.017	2.11	0.285	0.42	0.102	1.05	0.153
Wetlands	221.61	31.85	115.53	15.60	111.44	27.10	262.35	38.46
Water	82.94	11.92	14.76	1.99	1.51	0.367	7.4	1.08
total	695.67		740.24		411.168		682.05	

Source: Multi Resolution Land Characteristics Consortium (MRLC) 2016

Notes: Figures in square miles; developed land cover type includes developed open space; agricultural land cover type includes crops, pastures, and hay.

Map 2. Land Cover



Surface Waters and Major Basins

Surface waters compose approximately 4% of the Santee-Lynches area. The major surface water features in the region include Lake Marion and Lake Wateree and the Black, Lynches, Pocatoligo, and Wateree Rivers. Map 3 below shows the location of the major surface water features in the region.

Portions of three of South Carolina's eight major river basins lie in the Santee-Lynches region. These are the Catawba, Pee Dee, and Santee Basins. Map 4 below shows the major river basin areas within the Region.

Map 3. Surface Waters



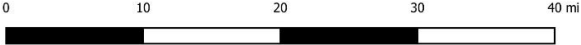
Surface Waters

Santee-Lynches Region

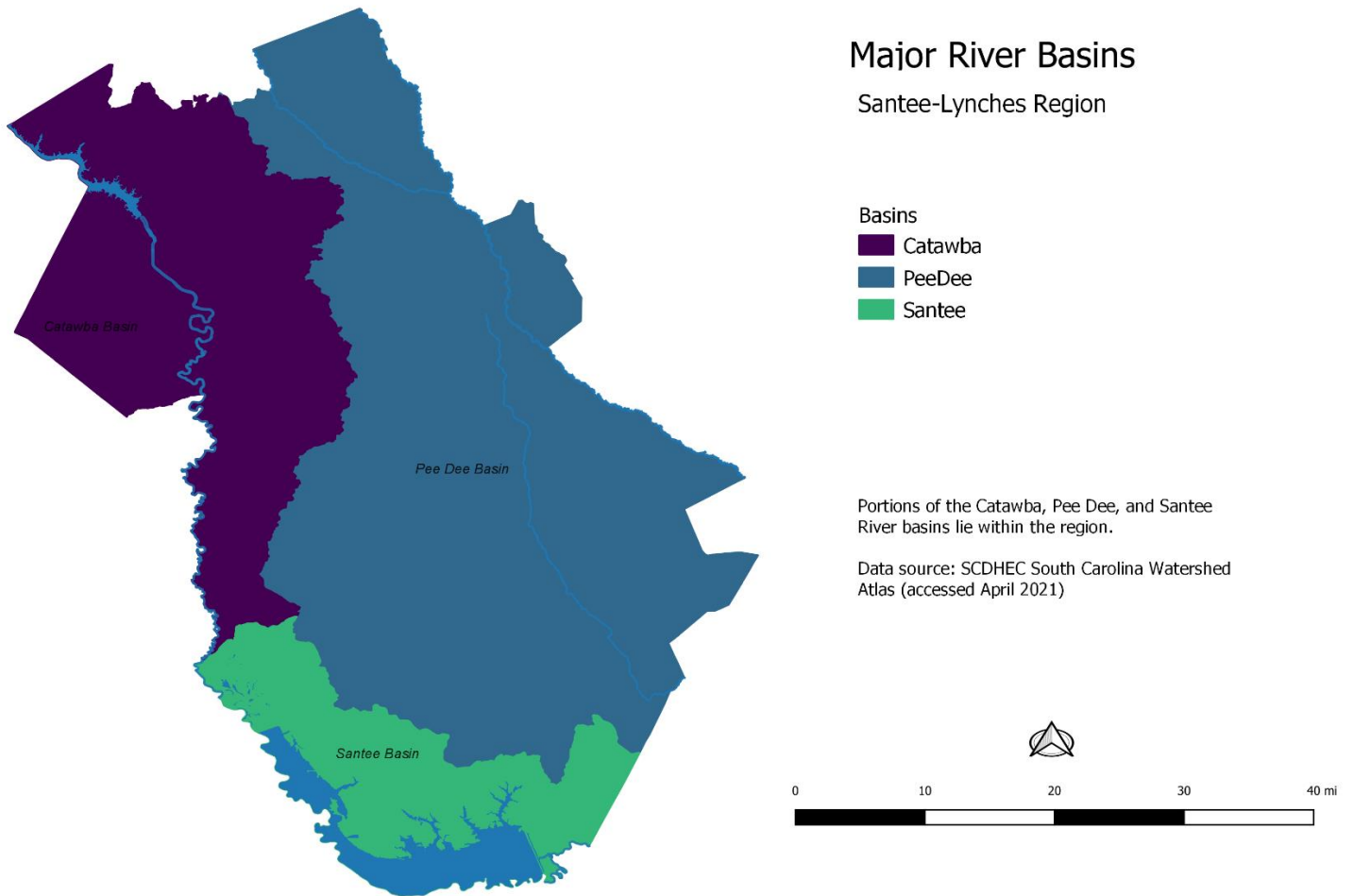
- Rivers and Streams
- Waterbodies

Surface waters in the region, with major rivers and lakes labelled.

Data source: USGS National Hydrography Dataset (accessed April 2021)



Map 4. Major River Basins



Population

The resident population places demand on the water resources and wastewater infrastructure of the region. Estimates suggest that the average American uses 80-100 gallons of water each day in the home (United States Geological Survey, 2021), with wastewater usage roughly equivalent to water usage. Tracking population trends is, therefore, an important activity in water quality management planning.

Currently, the total population of the Santee-Lynches region is approximately 220,563 persons (United States Census Bureau, 2020). The table below presents recent and current population figures for each county in the region.

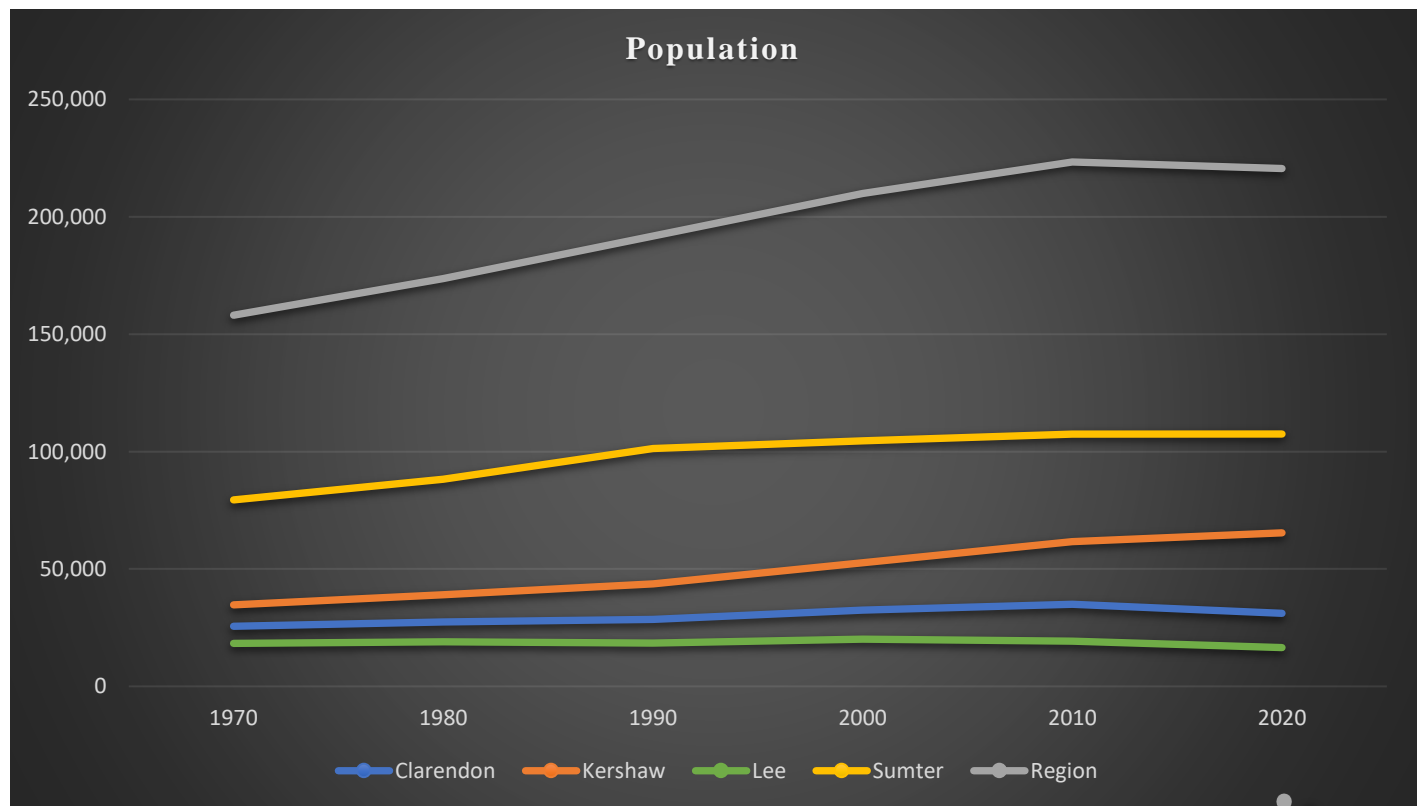
Table 2. Population 1970-2020

	1970	1980	1990	2000	2010	2020
Clarendon	25,604	27,464	28,511	32,502	34,971	31,144
Kershaw	34,727	39,015	43,638	52,647	61,697	65,403
Lee	18,323	18,929	18,447	20,119	19,220	16,531
Sumter	79,425	88,243	101,271	104,646	107,456	107,485
Region	158,079	173,651	191,867	209,914	223,344	220,563

Source: United States Census Bureau

The chart below shows population growth trends for the counties and the region since 1970. As the chart suggests, after several decades of increasing population, this growth now appears to be plateauing in the region, with some counties experiencing population loss.

Chart 1. Population Trends



Source: United States Census Bureau

Table 3 below presents projected future population figures for each county in the region. A linear projection methodology was used, based on the past three decennial censuses. This projection suggests that the trend indicated in Chart 1 above will continue.

Table 3. Population Projections

	Census			Projection				Annual Change
	2000	2010	2020	2025	2030	2035	2040	2020-2040
Clarendon	32,502	34,971	31,144	30,805	30,465	30,126	29,786	-0.22%
Kershaw	52,647	61,697	65,403	68,592	71,781	74,970	78,159	0.89%
Lee	20,119	19,220	16,531	15,634	14,737	13,840	12,943	-1.22%
Sumter	104,646	107,456	105,556	105,784	106,011	106,239	106,466	0.04%
Region	209,914	223,344	220,563	223,225	225,888	228,550	231,212	0.24%

Source: Santee-Lynches Regional Council of Governments

Development Activity

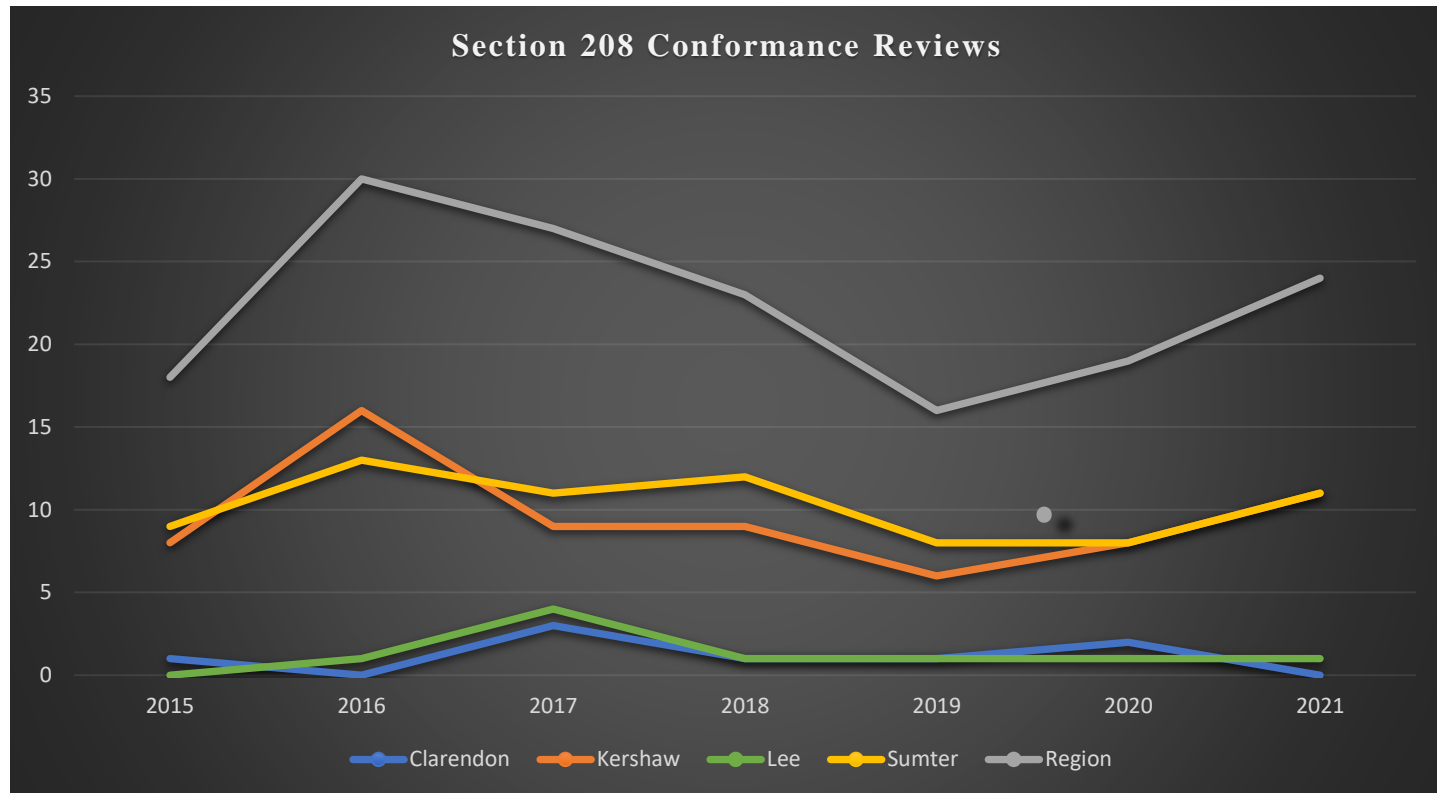
The Santee-Lynches COG reviews proposed wastewater projects for conformity with the goals and policies of the 208 Water Quality Management Plan. Conformance reviews are made prior to SCDHEC issuance of a construction or discharge permit for the proposed project. These 208 conformance reviews therefore serve as a general indicator of development activity in the region. The table and chart below show conformance reviews conducted by the COG for the period 2015 – 2021 Q2 in each of the counties of the region. The number of conformance reviews has declined in recent years, from a high of 30 in 2016. This suggests a decline in development activity, generally, in the region since 2016. The coronavirus pandemic of 2020 also had a dampening effect on the region’s economy, likely impacting development activity during this period, as well.

Table 4. Section 208 Conformance Reviews 2015-2021

	2015	2016	2017	2018	2019	2020	2021
Clarendon	1	0	3	1	1	2	0
Kershaw	8	16	9	9	7	7	11
Lee	0	1	4	1	1	1	1
Sumter	9	13	11	12	8	5	12
Region	18	30	27	23	17	15	24

Source: Santee-Lynches Regional Council of Governments

Chart 2. Section 208 Conformance Reviews



Source: Planning Department, Santee-Lynches Regional Council of Governments

IV. WATER QUALITY ISSUES

The water quality issues that follow may be considered typical for a predominantly rural, agriculturally oriented region that is experiencing some degree of localized urbanization and industrial intensification. Bacteria-related water pollutants are not uncommon where farming and forestry activities are found and septic systems for wastewater disposal are widespread. Wastewater discharged by facilities to surface waters may exceed permitted levels, resulting in impaired water quality. Polluted runoff from agricultural fields, construction sites, and urbanized areas can also enter surface waters contributing to water quality impairment. Depending on their location, lakes and rivers can become a sink for upstream pollutant sources.

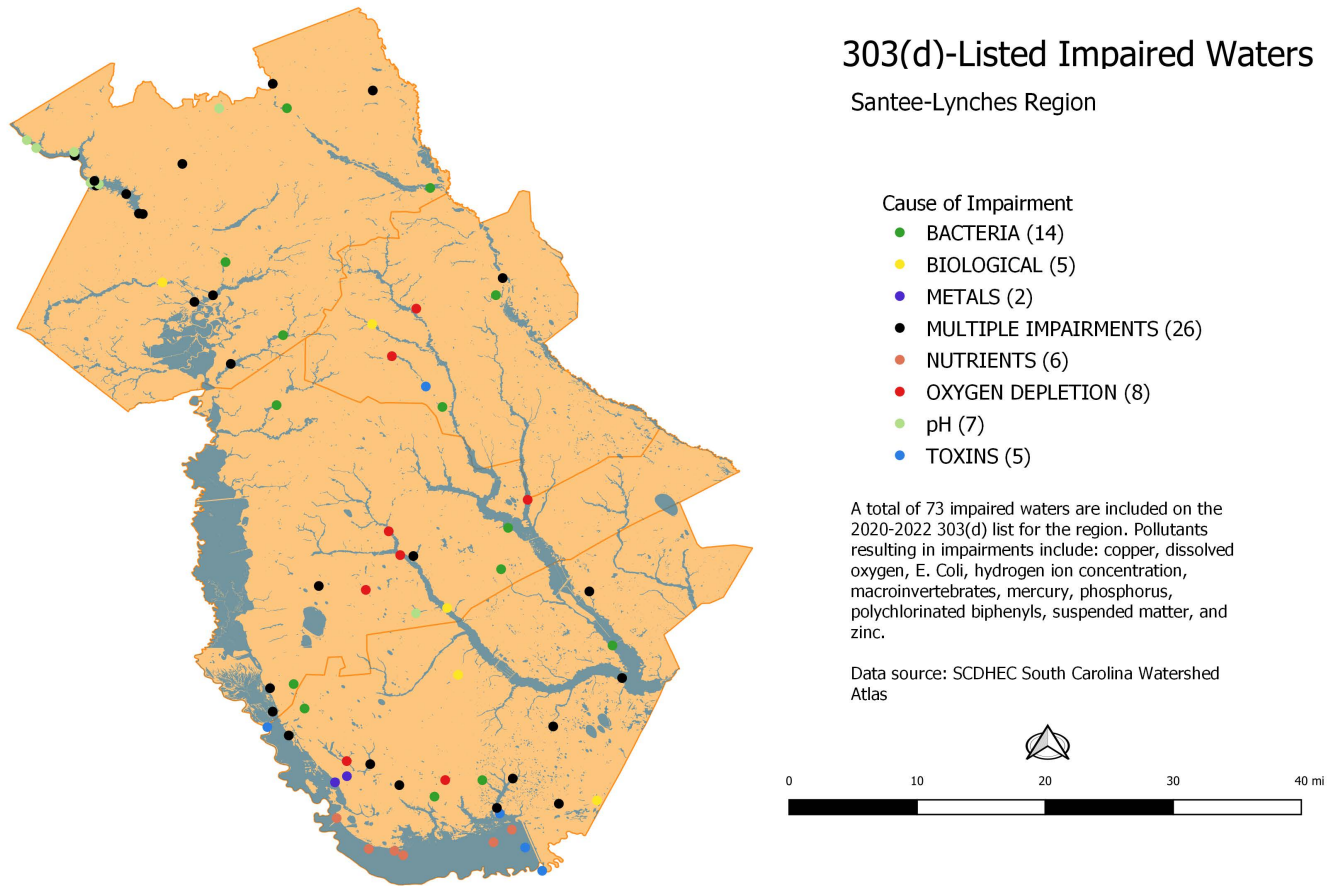
Impaired Waters

Bacteria, nutrients, and other polluting substances give rise to impaired stream segments in the Santee-Lynches region. South Carolina's current list of impaired or threatened lakes, rivers, and streams identifies a

total of 73 impairments in the counties of the Santee-Lynches region (2020-2022 303(d) List, SCDHEC, USEPA). Impaired locations are shown on Map 5 below. These impairments will be addressed through Total Maximum Daily Load standards between two and thirteen years from listing (*State of South Carolina Integrated Report for 2022*, SCDHEC).

Appendix I contains a complete listing of all 303 (d) listed impairments in the region.

Map 5. Impaired Waters



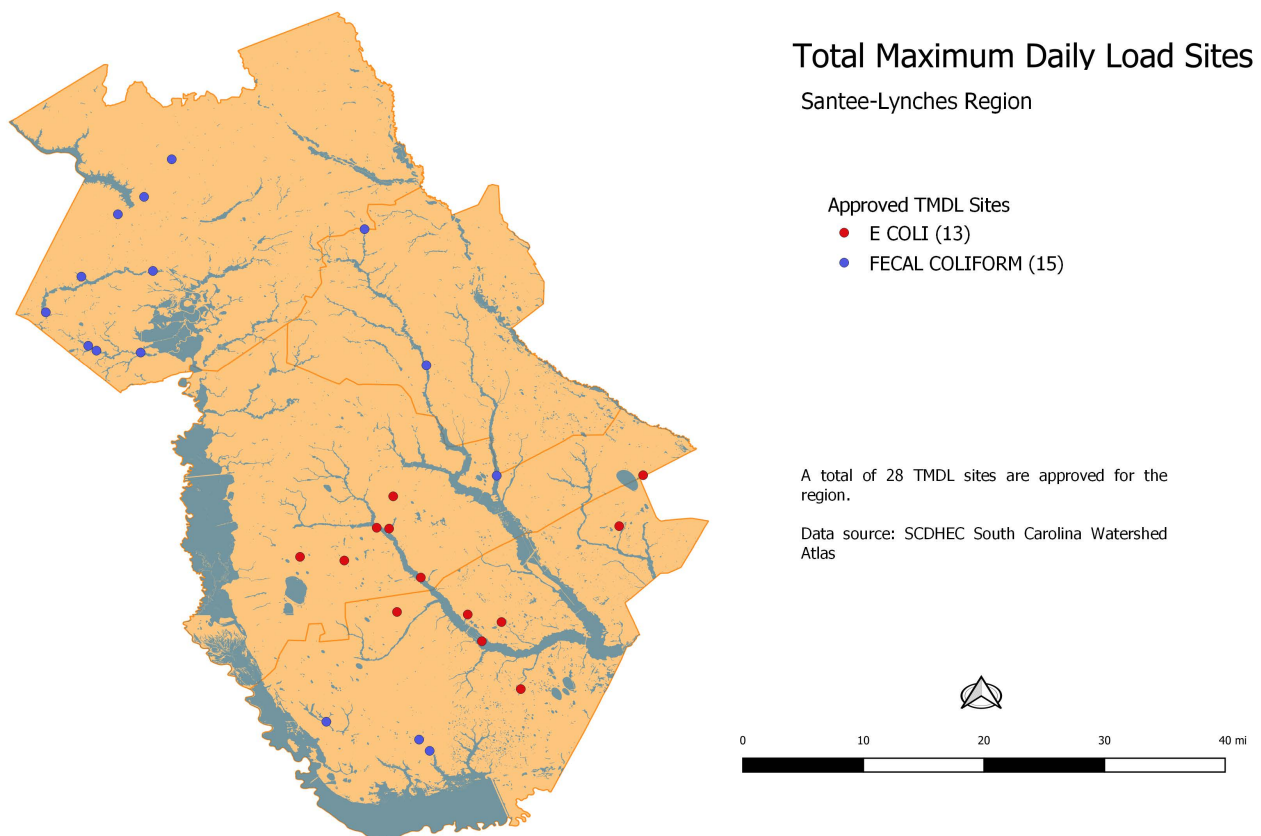
Total Maximum Daily Loads

A Total Maximum Daily Load (TMDL) regulates the maximum amount of a pollutant that a lake, river, or stream can accept and still meet water quality standards under the Clean Water Act. TMDLs are approved for impaired waters by SCDHEC and USEPA. Currently, there are 28 approved TMDLs in the Santee-Lynches region. These TMDLs address bacteria-related pollutants, E. coli and fecal coliform.

For point source dischargers, TMDL conditions are included in NPDES permits. Nonpoint source pollution issues are addressed by municipalities, community groups, or other organizations. Federal funding is available for addressing nonpoint source concerns, specifically Section 319 Nonpoint Source Management Program grants. (SCDHEC communication, 8/3/2021).

The map below shows TMDL locations in the region. Appendix II contains a complete listing of approved TMDLs in the region.

Map 6. TMDLs

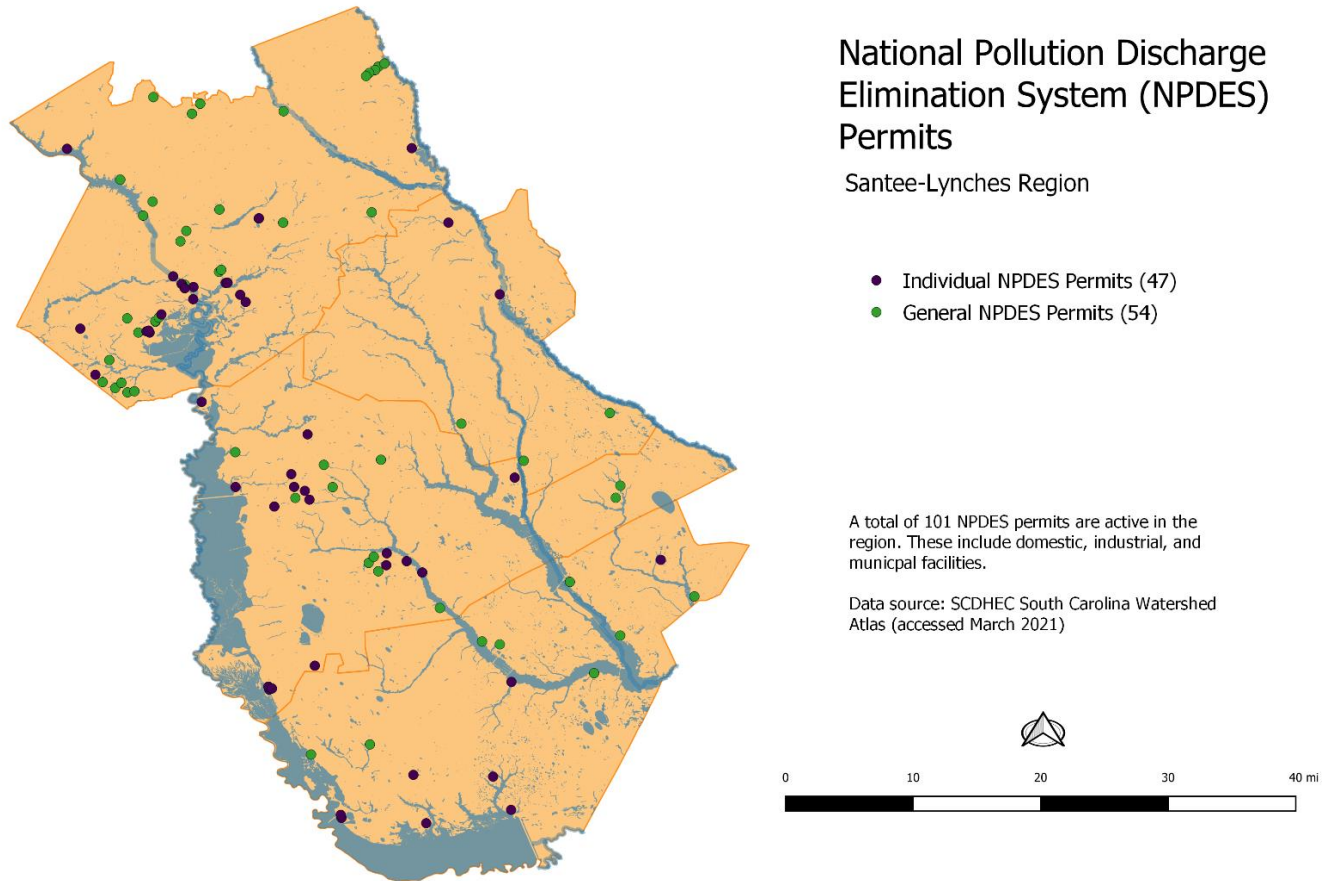


NPDES Permitted Facilities

The National Pollutant Discharge Elimination System (NPDES) regulates the amount of pollutants contained in a facility’s wastewater. Permits issued by SCDHEC identify the allowable pollutant amount. Permit holders submit regular Discharge Monitoring Reports (DMRs) to SCDHEC and USEPA. Permitted facilities are inspected by SCDHEC at least one time each year.

There are 101 NPDES permitted sites in the Santee-Lynches region. These permitted sites are shown on the map below. Individual permits are associated with facilities discharging domestic, industrial, or municipal wastewater to surface waters, or in some cases, to adjacent land areas. General permits regulate pesticide application, backwash discharge, construction runoff, and similar activities. Appendix III contains a complete list of all NPDES permits in the region.

Map 7. NPDES Permits



V. WATER QUALITY MANAGEMENT

Designated management agencies are those agencies responsible for constructing, operating, and maintaining publicly owned wastewater treatment facilities. Only designated management agencies are eligible to receive loans from the State Revolving Fund for constructing or repairing wastewater systems. The table below presents the designated management agencies in the Santee-Lynches region, along with a description of the area served by each, and measures of facility capacity.

Table 4. Management Agencies

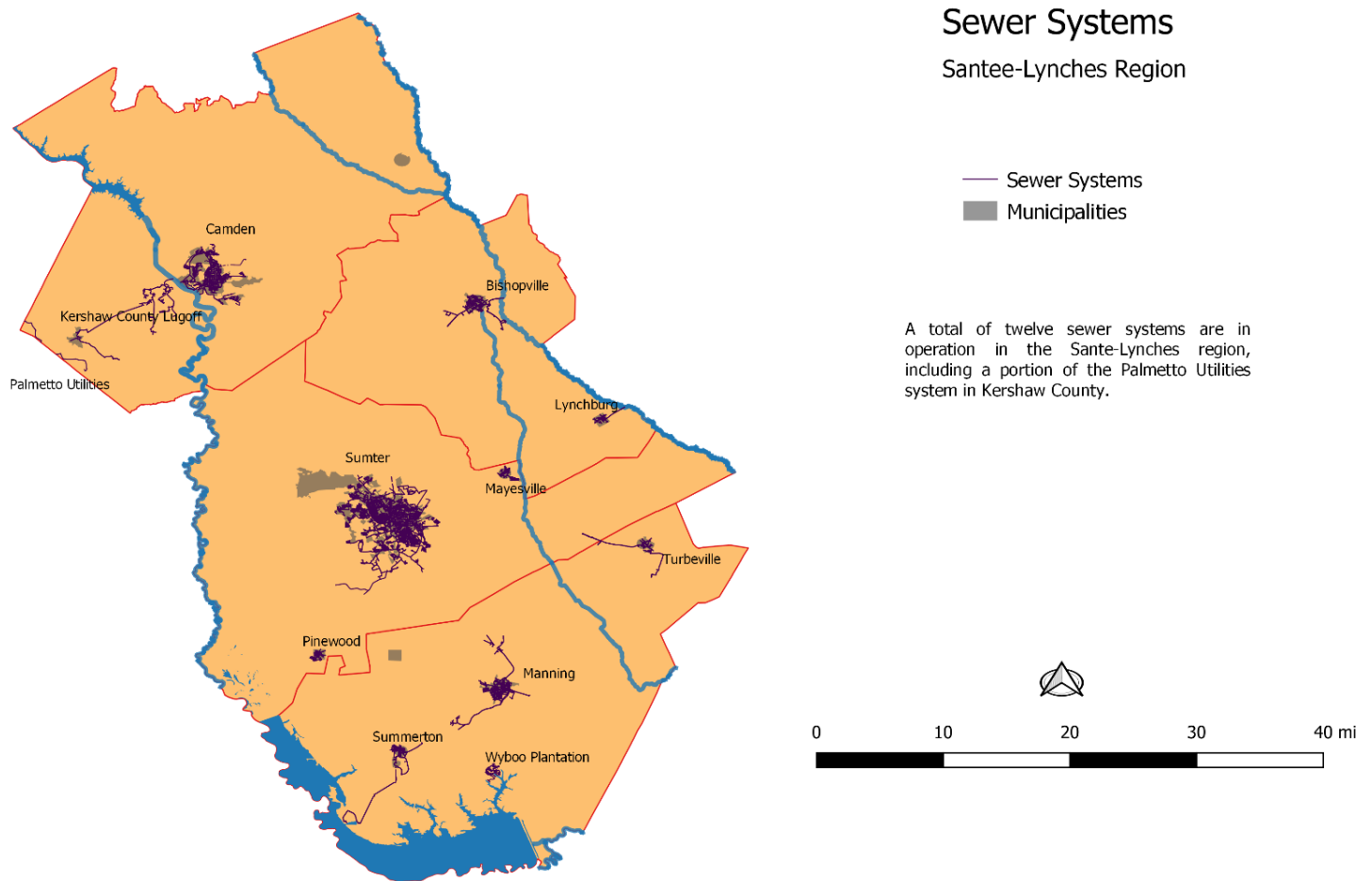
Management Agency	Service Area	Constructed Capacity (gallons)	Allocated Capacity (gallons)	Remaining Capacity (gallons)
Summerton	Municipality only	349,000	328,867	20,133
Manning	Municipality and certain unincorporated county area	5,000,000	2,346,164	2,653,836
Turbeville	municipality and certain unincorporated county area	800,000	352,846	447,154
Clarendon County Wyboo Plantation	Unincorporated county only	184,000	184,000	0.000
Camden	Municipality and certain unincorporated county area	4,000,000	2,732,102	1,267,897
Kershaw County Lugoff	Unincorporated county only	2,000,000	1,750,208	249,792
Bishopville	Municipality and certain unincorporated county area	2,500,000	1,706,695	793,305
Lynchburg	Municipality only	107,000	19,725	87,275
Pinewood	Municipality only	134,000	85,000	49,000
			1.784	
	Municipality and certain unincorporated county areas		18.0 (Pocotaligo)	
City of Sumter		9.0 (Wateree)		9.000
	Mayesville plant closing, directing flow to City of Sumter beginning 01/2021	97,100 (Mayesville)		2,900

Source: SCDHEC, November 2020

Sewer Systems

The map below shows the extent of the major sewer systems in the region. For the most part, sewerage in the region is focused on municipalities and some areas adjacent to these municipalities. There is very little sewerage found in outlying county areas. Palmetto Utilities serves a portion of Kershaw County in addition to a service area in Richland County just across the county boundary. The Mayesville WWTP is in the process of closing and is directing its flow to the City of Sumter's wastewater system (SCDHEC communication 5/27/21).

Map 8. Sewer Systems



Upper Wateree Agreement

The Upper Wateree Agreement is an agreement for water quality planning and waste load allocation in the upper Wateree River entered into by the Central Midlands COG, Santee-Lynches COG, Kershaw County, Richland County, Palmetto Utilities, and SCDHEC in 2006. The full text of the agreement is contained in Appendix IV.

Future Wastewater Needs

Identifying future needs for wastewater service is an important concern for plant operators. Projections of future demand will inform planning for system upgrades and expansion of treatment capacity. The table below includes expected demand and for selected systems in the region.

System	Expected Needs
City of Camden	<ul style="list-style-type: none"> • Anticipate .76 MGD industrial customer • Expansions of two other industries in late 2022 • Continued increase in residential and commercial development
Kershaw County	<ul style="list-style-type: none"> • Strong demand for wastewater will continue, especially in western part of county bordering Richland County • Treatment facility nearing capacity, requires upgrade • DHEC approved PER for facility expansion to double capacity to 4MGD
Town of Bishopville	<ul style="list-style-type: none"> • Upgrades and modernization needed for 30-year-old plant • Upgrades needed for distribution system especially related to inflow and infiltration • Upgrades needed for 30–60-year-old pump station(s) • Long-term need for service expansion into truck bypass area
Town of Turbeville	<ul style="list-style-type: none"> • Rehab or replace several sewer lines to address inflow and infiltration issues • Explore funding to replace or upgrade approx. 30-year-old WWTP aeration basin • Potential demand for future sewer service in Puddin' Swamp Road area following extension of town water to this area • Town of Olanta presently routing wastewater to Lake City; potential to connect to Turbeville's sewer system • Sewer expansion along Highway 301 would assist in development along that corridor where some residential development is already underway

VI. CONFORMANCE REVIEWS

As the regional Water Quality Planning Agency, Santee-Lynches is responsible for the administration of the 208 Water Quality Management Plan, including carrying out plan conformance reviews for requested projects, and plan amendments and updates. This section elaborates each of these administrative functions.

Conformance Review

As mentioned above, SCDHEC issuance of construction or discharge permits, as well as grants and loans, for wastewater facilities is contingent upon a 208 Conformance Review conducted by the Santee-Lynches COG (Clean Water Act, Sections 208 (d) and (e); SC Regulations R 61-9 and R 61-67).

Requests for conformance review are submitted by SCDHEC or a consulting engineer. Santee-Lynches reviews the following for conformance with the 208 Water Quality Management Plan:

- Proposed National Pollutant Discharge Elimination System (NPDES) permits
- Land application (ND) permits
- Wastewater construction permit applications
- Residential subdivisions where community septic tanks are used as a means of wastewater disposal

COG staff determine whether the proposed project conforms to the goals and policies of the WQMP (see Policies for Regional Water Quality Management section of this document). COG staff may request technical assistance from DHEC prior to making a conformance determination. The applicant will be notified of the outcome of the review within five (5) business days of receipt of both the application and any applicable payment.¹ The proposed project may or may not be in conformance with the WQM plan. If the request is not in conformance, it may require an amendment to the WQMP, or the request may be denied. See Appendix V for the plan amendment process. If the request is deemed not to be in conformance with the WQMP, justification for such determination will be communicated to the applicant.

The 208 Conformance Review request form and fee schedule are available from the Santee-Lynches COG website: [Forms | Santee-Lynches Regional Council of Governments \(santeelynychescog.org\)](https://www.santeelynychescog.org/forms). Conformance Review request forms require complete information. A map or maps of the project area should accompany the request form. Maps should include any interstates, state highways, or other major roads that appear in the project area. Roadways should be labelled on the map, a north arrow included, and the project area should be identified.

¹ Not to include additional processing time required due to errors or omissions in data on the part of the applicant.

VII. APPENDICES

APPENDIX I: 303D LIST

BASIN	HUC_12	COUNTY	STATION	DESCRIPTION	USE	IMPAIRMENT
SANTEE	30501120102	CLARENDON	ST-536	BENNETTS BRANCH AT SR 351	AL/REC	BIOLOGICAL, E_COLI
SANTEE	30501120102	CLARENDON	ST-537	DOCTOR BRANCH AT SR 48	AL	BIOLOGICAL
SANTEE	30501110109	CLARENDON	SC-041	MID LAKE MARION 3.2 KM NORTH OF CHANNEL MARKER 79	AL	PHOSPHORUS
SANTEE	30501110109	CLARENDON	RL-13086	LAKE MARION APPROX 0.5 MI SW OF END OF DUBOISE DR	AL	PHOSPHORUS
SANTEE	30501110109	CLARENDON	ST-027	LAKE MARION @ DAM	FISH	MERCURY
SANTEE	30501110109	CLARENDON	RL-13074	LAKE MARION NEAR SANTEE NATL WILDLIFE REFUGE	AL	PHOSPHORUS
SANTEE	30501110109	CLARENDON	SC-042	MID LAKE MARION AT NORTH END OF I-95 / U.S. 301 BRIDGES	AL	PHOSPHORUS
SANTEE	30501110108	CLARENDON	ST-024	LK MARION AT END OF S-14-64 AT CAMP BOB COOPER	FISH	MERCURY
SANTEE	30501110108	CLARENDON	ST-036	LK MARION; WYBOO CREEK ARM DS OF CLUBHOUSE BR -SC-023A	AL	COPPER, PH
SANTEE	30501110107	CLARENDON	ST-018	TAWCAW CK AT S-14-127 3.2 MI S OF SUMMERTON -SC-018	AL/REC	DO, E_COLI
SANTEE	30501110108	CLARENDON	ST-035	POTATO CK AT S-14-127 3.2 MI S OF SUMMERTON -SC-020	AL	DO
SANTEE	30501110106	CLARENDON	CW-244	JACKS CK AT S-14-76 -SC-013	AL/REC	DO, E_COLI
SANTEE	30501110106	CLARENDON	CW-243	BIG BRANCH AT S-14-41 -SC-047	AL	DO
SANTEE	30501110109	CLARENDON	SC-039	UPPER LAKE MARION 2.0 KM BELOW RIMINI RAILROAD TRESTLE	AL	DO, PHOSPHORUS
SANTEE	30501110102	CLARENDON	SC-009	SPRING GROVE CREEK AT SECONDARY ROAD 26 BRIDGE	REC	E_COLI
PEEDEE	30402050407	CLARENDON	PD-043	POCOTALIGO RVR AT S-14-50 9.5 MI NE MANNING	AL/REC/FISH	DO, E_COLI, MERCURY
PEEDEE	30402050404	CLARENDON	PD-627	AT SC 261	AL	BIOLOGICAL
PEEDEE	30402050603	CLARENDON	PD-116	BLACK RVR AT S-14-40 E OF MANNING	REC	E_COLI
SANTEE	30501110109	CLARENDON	RL-20180	LAKE MARION APPROX 1 MI SSE OF PINE ISLAND	AL	PHOSPHORUS
SANTEE	30501110109	CLARENDON	RL-10010	LAKE MARION 0.65MI SSE OF SOUTHEAST END OF GREEN ISLAND	AL	PHOSPHORUS
SANTEE	30501110107	CLARENDON	RS-03505	UNNAMED TRIBUTARY TO TAWCAW CREEK AT S-14-559 -WILLIAM BRUNSON ROAD-	REC	E_COLI
SANTEE	30501110106	CLARENDON	RL-02306	LK MARION AT JACK'S CK EMBAYMENT; USE SANTEE COOPER SC-012	AL	COPPER
SANTEE	30501110108	CLARENDON	RS-01051	WHITE OAK CREEK AT COUNTY RD 345; 4.5 M ESE OF SUMMERTON	REC	E_COLI
SANTEE	30501110108	CLARENDON	SC-059	ASSIGNED TO SANTEE-COOPER PROJECT	AL	DO, PHOSPHORUS

BASIN	HUC_12	COUNTY	STATION	DESCRIPTION	USE	IMPAIRMENT
SANTEE	30501110106	CLARENDON	SC-048	ASSIGNED TO SANTEE-COOPER PROJECT	AL	COPPER
PEEDEE	30402050406	CLARENDON	RS-03347	DEEP CREEK AT S-14-25 AND 1.2 MI NE OF BLOOMVILLE	AL	DO, PH
PEEDEE	30402050603	CLARENDON	RS-18403	MILL BRANCH AT US 301	AL/REC	DO, E_COLI
CATAWBA	30501040305	KERSHAW	CW-238	SWIFT CK AT SC 261	AL	COPPER, DO
CATAWBA	30501040305	KERSHAW	CW-082	SWIFT CK AT S-28-12	REC	E_COLI
CATAWBA	30501040304	KERSHAW	CW-214	WATEREE RVR AT I-20	AL/FISH	DO, MERCURY, PCB
CATAWBA	30501040302	KERSHAW	CW-021	BIG PINE TREE CK AT US 521; NW BRIDGE	AL/REC	E_COLI, LEAD
CATAWBA	30501040207	KERSHAW	CW-080	TWENTYFIVE MILE CK AT S-28-5 3.7 MI W OF CAMDEN	AL	BIOLOGICAL
CATAWBA	30501040302	KERSHAW	CW-223	LITTLE PINE TREE CREEK AT S-28-132	REC	E_COLI
CATAWBA	30501040208	KERSHAW	CW-039	WATEREE RIVER BELOW LAKE WATEREE DAM	FISH	MERCURY, PCB
CATAWBA	30501040111	KERSHAW	CL-089	LK WATEREE IN FOREBAY EQUIDISTANT FROM DAM AND SHORELINES	AL	DO, PH
CATAWBA	30501040111	KERSHAW	CW-209	LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM	AL/FISH	PCB, PH
PEEDEE	30402020206	KERSHAW	PD-344	LITTLE LYNCHES RIVER AT SC 341; 3.5 MI SE OF BETHUNE	REC	E_COLI
PEEDEE	30402020203	KERSHAW	PD-109	LITTLE LYNCHES RIVER AT SC 341; 4 MI SE OF KERSHAW	AL/REC	E_COLI, PH
CATAWBA	30501040111	KERSHAW	LCR-03	LK WATEREE OFF DUTCHMAN CREEK ARM	AL	PH
CATAWBA	30501040111	KERSHAW	RL-09099	WATEREE LAKE 1.9 MILES WEST OF THE CLEARWATER COVE BOAT LANDING	AL	PH, PHOSPHORUS
CATAWBA	30501040111	KERSHAW	RL-10008	LAKE WATEREE 4.3MI NW OF WEST END OF WATEREE DAM	AL	PH
CATAWBA	30501040111	KERSHAW	RL-14155	LAKE WATEREE APPROX 1.7 MI NE OFF COLONEL CREEK LANDING	AL	PH
CATAWBA	30501040111	KERSHAW	RL-03336	LAKE WATEREE NEARSHORE ALONG S-28-802 OPP COLONEL CK CONFL	AL	PH, PHOSPHORUS
CATAWBA	30501040201	KERSHAW	CW-077	FLAT ROCK CRK. AT SR 40	AL	PH, TURBIDITY
CATAWBA	30501040111	KERSHAW	RL-02314	LAKE WATEREE 1.0 MI SW FROM MOUTH OF BEAVER CK	AL	PH, PHOSPHORUS
CATAWBA	30501040111	KERSHAW	RL-13084	LAKE WATEREE APPROX 0.15 MI SW OF END OF LITTLE GULL RD	AL	PH
PEEDEE	30402020204	KERSHAW	RS-12076	LITTLE LYNCHES RVR AT S-28-20 -LOCKHART RD	REC	E_COLI
CATAWBA	30501040111	KERSHAW	RL-18083	LAKE WATEREE APPROX .25 MILES NE OF LAKE WATEREE STATE PARK BOAT RAMP	AL	PH

BASIN	HUC_12	COUNTY	STATION	DESCRIPTION	USE	IMPAIRMENT
PEEDEE	30402020306	KERSHAW	RS-18392	JUMPING GULLY AT NEWMAN ROAD S-28-588	AL/REC	E_COLI, PH
CATAWBA	30501040202	KERSHAW	RS-16336	UNNAMED TRIB TO GRANNIES QUARTER CREEK AT FIRST DIP IN S-28-499; CATOE R*	AL	PH
PEEDEE	30402050104	LEE	PD-356	MECHANICSVILLE SWAMP AT S-31-500	REC	E_COLI
PEEDEE	30402050103	LEE	PD-636	AT CO RD 313	AL	BIOLOGICAL
PEEDEE	30402020503	LEE	PD-112	COUSAR BR 1/4 MI BELOW BISHOPVILLE FINISHING CO	REC	E_COLI
PEEDEE	30402020503	LEE	PD-071	LYNCHES RVR AT US 15/SC 34	REC/FISH	E_COLI, MERCURY
PEEDEE	30402050104	LEE	RS-01017	MCGRITS CREEK AT COUNTY RD 73; 7.5 M SW OF BISHOPVILLE	AL	DO
PEEDEE	30402050105	LEE	RS-09095	GUM SPRING BRANCH AT BRIDGE ON S-31-162 OFF SC 34	AL	DO
PEEDEE	30402050104	LEE	FISH-002	ASHWOOD POND	FISH	MERCURY
SANTEE	30501110109	SUMTER	ST-519	LAKE MARION @ RIMINI	FISH	MERCURY
SANTEE	30501110109	SUMTER	SC-005	UPPER LAKE MARION NEAR PACK'S LANDING	AL	DO, PHOSPHORUS
SANTEE	30501110109	SUMTER	SC-058	STREAM ORIGINATING UPSTRM OF SAFETY KLEEN HAZARDOUS LANDFILL	AL	PH, ZINC
PEEDEE	30402050401	SUMTER	PD-202	POCOTALIGO RVR AT S-43-32 9 MI SSE OF SUMTER	AL	BIOLOGICAL
PEEDEE	30402050302	SUMTER	PD-239	NASTY BR AT S-43-251 7.5 MI SW OF SUMTER	AL	DO
PEEDEE	30402050401	SUMTER	PD-040	TURKEY CREEK AT US 521	AL/FISH	DO, MERCURY, AMMONIA
PEEDEE	30402050401	SUMTER	PD-091	POCOTALIGO RVR AT US 15 3.5 MI S SUMTER	AL	DO
PEEDEE	30402050301	SUMTER	PD-039	GREEN SWP AT S-43-33	AL	DO
PEEDEE	30402050109	SUMTER	PD-201	ROCKY BLUFF SWAMP AT S-43-41	REC	E_COLI
PEEDEE	30402050205	SUMTER	PD-353	BLACK RIVER AT S-43-57	AL	DO
SANTEE	30501110102	SUMTER	RS-05585	DUCKFORD BRANCH AT S-43-52 3.2 MI SW OF PINWOOD	REC	E_COLI
PEEDEE	30402050401	SUMTER	PD-617	AT CO. RD. 459	AL	PH
PEEDEE	30402050303	SUMTER	RS-03345	BRUNSON SWAMP CREEK AT S-43-251 - 1.3 MI W OF SC 120 - 9.25 MI SW SUMTER	AL	DO, PH
PEEDEE	30402050601	SUMTER	RS-11003	TEARCOAT BRANCH AT S-43-255; 8.6 MI SE OF SUMTER	REC	E_COLI
CATAWBA	30501040306	SUMTER	RS-14220	RAFTING CREEK AT US 521; SOUTHERN BRIDGE FARTHEST FROM REMBERT	REC	E_COLI

APPENDIX II: TMDL LIST

BASIN	HUC_12	COUNTY	STATION	DESCRIPTION	CAUSE
SANTEE	30501110108	CLARENDON	RS-03501	POTATO CREEK AT S-14-715 (ROGERS ROAD) 5.5 MI SE OF SUMMERTON	FC
SANTEE	30501110108	CLARENDON	ST-035	POTATO CK AT S-14-127 3.2 MI S OF SUMMERTON (SC-020)	FC
SANTEE	30501110106	CLARENDON	CW-243	BIG BRANCH AT S-14-41 (SC-047)	FC
PEEDEE	30402050302	SUMTER	PD-239	NASTY BR AT S-43-251 7.5 MI SW OF SUMTER	ECOLI
PEEDEE	30402050401	SUMTER	PD-040	TURKEY CREEK	ECOLI
PEEDEE	30402050401	SUMTER	PD-098	TURKEY CK AT LIBERTY ST IN SUMTER ABOVE SANTEE PRINT WORKS	ECOLI
PEEDEE	30402050105	LEE	PD-355	SCAPE ORE SWAMP AT S-31-108	FC
CATAWBA	30501040402	KERSHAW	CW-166	SPEARS CK AT US 601	FC
CATAWBA	30501040402	KERSHAW	CW-155	SPEARS CK AT SC 12 3.6 MI SE OF ELGIN	FC
CATAWBA	30501040401	KERSHAW	CW-154	KELLY CK AT S-28-367 2.9 MI SE OF ELGIN	FC
CATAWBA	30501040207	KERSHAW	CW-080	TWENTYFIVE MILE CK AT S-28-05 3.7 MI W OF CAMDEN	FC
CATAWBA	30501040203	KERSHAW	CW-079	SAWNEYS CK AT S-28-37	FC
CATAWBA	30501040202	KERSHAW	CW-237	GRANNIES QUARTER CREEK AT SC 97	FC
PEEDEE	30402050205	SUMTER	PD-353	BLACK RIVER AT S-43-57	FC
PEEDEE	30402050406	CLARENDON	RS-03347	DEEP CREEK AT S-14-25 AND 1.2 MI NE OF BLOOMVILLE	ECOLI
PEEDEE	30402050407	CLARENDON	PD-115	POCOTALIGO RVR AT 3RD BRDG N OF MANNING ON US 301	ECOLI
PEEDEE	30402050407	CLARENDON	RS-08232	UNNAMED TRIB TO JUNE BURN BRANCH AT CULVERT ON S-14-123 (ALDERMAN CAMP RD) JUST WEST OF HOUSE #1819	ECOLI
PEEDEE	30402050404	CLARENDON	RS-07192	BIG BRANCH AT INTERSECTION OF US 521 AND MAIN STREET IN ALCOLU	ECOLI
PEEDEE	30402050401	SUMTER	PD-202	POCOTALIGO RVR AT S-43-32 9 MI SSE OF SUMTER	ECOLI
PEEDEE	30402050303	SUMTER	RS-03345	BRUNSON SWAMP CREEK AT S-43-251 - 1.3 MI W OF SC 120 - 9.25 MI SW SUMTER	ECOLI
PEEDEE	30402050102	LEE	RS-12092	BLACK CREEK AT S-28-195/S-31-195	FC
PEEDEE	30402050403	CLARENDON	RS-14195	GUCKOLDS BRANCH AT S-14-61 -STONE ROAD	ECOLI
PEEDEE	30402050503	CLARENDON	RS-05557	HORSE BRANCH AT S-14-106 1.2 MI SE OF TURBEVILLE	ECOLI
PEEDEE	30402050502	SUMTER	RS-11027	DOUGLAS SWAMP AT S-43-150, 5 MI NE OF TURBEVILLE	ECOLI
CATAWBA	30501040201	KERSHAW	CW-077	FLAT ROCK CRK. AT SR 40	FC
CATAWBA	30501040207	KERSHAW	CW-652	@ co. rd. 129	FC
PEEDEE	30402050401	SUMTER	PD-091	POCOTALIGO RVR AT US 15 3.5 MI S SUMTER	ECOLI
CATAWBA	30501040206	KERSHAW	RS-17384	SANDY BRANCH AT WILDWOOD LANE S-28-349	FC

APPENDIX III: NPDES PERMIT LIST

Individual Permits

NPDES	NAME	FAC_TYPE	HUC_12	BASIN	CNTY_NAME	SIC	SIC_DESC
ND0067318	GOAT ISLAND WATER & SEWER COMP	Domestic	30501110107	Santee	Clarendon	6514	Operators of Dwellings Other Than Apartment Buildings
ND0067326	SANTEE LAKES CAMPGROUND	Domestic	30501110109	Santee	Clarendon	7032	Sporting and Recreational Camps
ND0067652	LENORA'S SANTEE RESORT LLC	Domestic	30501110109	Santee	Clarendon	7033	Recreational Vehicle Parks and Campsites
ND0062227	CYPRESS POINTE CONDO	Domestic	30501110108	Santee	Clarendon	6514	Operators of Dwellings Other Than Apartment Buildings
ND0072427	WYBOO PLANTATION PHASE II	Domestic	30501110108	Santee	Clarendon	6514	Operators of Dwellings Other Than Apartment Buildings
ND0063401	SUMMERTON, TOWN OF	Municipal	30501110107	Santee	Clarendon	4952	Sewerage Systems
SC0020419	MANNING WWTF	Municipal	30402050407	PeeDee	Clarendon	4952	Sewerage Systems
ND0085014	TURBEVILLE SPRAYFIELD	Municipal	30402050503	PeeDee	Clarendon	4952	Sewerage Systems
SC0037575	COGSDILL TOOL PRODUCTS INC	Industrial	30501040304	Catawba	Kershaw	3545	Cutting Tools, Machine Tool Access., Measuring Devices
SC0021032	CAMDEN WWTF	Municipal	30501040304	Catawba	Kershaw	4952	Sewerage Systems
SC0002585	INVISTA S.A.R.L./CAMDEN	Industrial	30501040304	Catawba	Kershaw	2824	Manmade Organic Fibers, Except Cellulosic
SC0002518	DEROYAL TEXTILES	Industrial	30501040302	Catawba	Kershaw	2211	Broadwoven Fabric Mills, Cotton
SC0039870	KERSHAW CO/LUGOFF WWTF	Municipal	30501040208	Catawba	Kershaw	4952	Sewerage Systems
SC0047384	NEW SOUTH LUMBER CO/CAMDEN PLANT	Industrial	30501040204	Catawba	Kershaw	2421	Sawmills and Planing Mills, General
SC0033651	NOSOCA PINES RANCH	Domestic	30501040111	Catawba	Kershaw	7032	Sporting and Recreational Camps
SC0001341	AHLSTROM NONWOVENS LLC/BETHUNE	Industrial	30402020307	PeeDee	Kershaw	2297	Nonwoven Fabrics
SC0047384	NEW SOUTH LUMBER CO/CAMDEN PLANT	Industrial	30501040204	Catawba	Kershaw	2421	Sawmills and Planing Mills, General
ND0001546	HBD INDUSTRIES INC/ELGIN	Industrial	30501040206	Catawba	Kershaw	3052	Rubber and Plastics Hose and Belting
ND0061735	SMITHS MHP	Domestic	30501040303	Catawba	Kershaw	6515	Operators of Residential Mobile Home Sites
ND0069868	ROLLING MEADOWS/HERITAGE FINAN	Domestic	30501040303	Catawba	Kershaw	6515	Operators of Residential Mobile Home Sites
ND0075272	DEROYAL TEXTILES INC	Industrial	30501040302	Catawba	Kershaw		
SC0043451	SPEARS CREEK WWTP	Domestic	30501040304	Catawba	Kershaw	6514	Operators of Dwellings Other Than Apartment Buildings
ND0068411	PALMETTO UTIL'S/REG. WWTP	Domestic	30501040401	Catawba	Kershaw	4939	Combination Utilities, NEC

NPDES	NAME	FAC_TYPE	HUC_12	BASIN	CNTY_NAME	SIC	SIC_DESC
ND0069655	PRAXAIR INC.	Industrial	30501040304	Catawba	Kershaw	2813	Industrial Gases
ND0069655	PRAXAIR INC.	Industrial	30501040304	Catawba	Kershaw	2813	Industrial Gases
ND0069655	PRAXAIR INC.	Industrial	30501040304	Catawba	Kershaw	2813	Industrial Gases
SC0002585	INVISTA S.A.R.L./CAMDEN	Industrial	30501040304	Catawba	Kershaw	2824	Manmade Organic Fibers, Except Cellulosic
ND0000671	FOUNTAIN'S LAUNDROMAT	Industrial	30402020501	PeeDee	Lee		
SC0035378	BISHOPVILLE WWTF	Municipal	30402020503	PeeDee	Lee	4952	Sewerage Systems
SC0042170	PINEWOOD SITE CUSTODIAL TRUST	Industrial	30501110109	Santee	Sumter	4953	Refuse Systems
SC0042170	PINEWOOD SITE CUSTODIAL TRUST	Industrial	30501110109	Santee	Sumter	4953	Refuse Systems
SC0042170	PINEWOOD SITE CUSTODIAL TRUST	Industrial	30501110109	Santee	Sumter	4953	Refuse Systems
SC0046868	PINEWOOD, TOWN OF	Municipal	30501110102	Santee	Sumter	4952	Sewerage Systems
SC0033235	SOUTH FORGE APARTMENTS	Domestic	30501040406	Catawba	Sumter	6513	Operators of Apartment Buildings
SC0030678	CWS/OAKLAND PLANTATION SD	Domestic	30501040405	Catawba	Sumter	6514	Operators of Dwellings Other Than Apartment Buildings
SC0031895	SCENIC LAKE PARK	Domestic	30501040306	Catawba	Sumter	6515	Operators of Residential Mobile Home Sites
SC0045349	SC DEPT CORR/WATEREE RIVER	Domestic	30501040307	Catawba	Sumter	9223	Correctional Institutions
SC0024970	USAF/SHAW AIR FORCE BASE	Industrial	30501040405	Catawba	Sumter	4952	Sewerage Systems
SC0040088	GLASSCOCK TRUCKING COMPANY INC	Industrial	30402050301	PeeDee	Sumter	1442	Construction Sand and Gravel
SC0024970	USAF/SHAW AIR FORCE BASE	Industrial	30402050301	PeeDee	Sumter	4952	Sewerage Systems
SC0032212	CAROLINA MOBILE COURT WWTF	Domestic	30402050301	PeeDee	Sumter	6515	Operators of Residential Mobile Home Sites
ND0069787	SUMTER/MAYESVILLE TOWN OF	Municipal	30402050205	PeeDee	Sumter	4952	Sewerage Systems
SC0027707	SUMTER/POCOTALIGO RIVER PLANT	Municipal	30402050401	PeeDee	Sumter	4952	Sewerage Systems
SC0000795	PILGRIMS PRIDE POULTRY PROC. PLANT	Industrial	30402050401	PeeDee	Sumter	2015	Poultry Slaughtering and Processing
SC0030724	CWS/POCALLA VILLAGE-BELK SD	Domestic	30402050401	PeeDee	Sumter	6514	Operators of Dwellings Other Than Apartment Buildings
SC0000795	PILGRIMS PRIDE POULTRY PROC. PLANT	Industrial	30402050303	PeeDee	Sumter	2015	Poultry Slaughtering and Processing
SC0042170	PINEWOOD SITE CUSTODIAL TRUST	Industrial	30501110109	Santee	Sumter	4953	Refuse Systems

General Permits

NPDES	NAME	FAC_TYPE	HUC_12	BASIN	CNTY_NAME	SIC	SIC_DESC
SCG730026	PINEWOOD SITE-HILLS/LABRUCE	Industrial	30501110109	Santee	Clarendon	1459	Clay, Ceramic, and Refractory Minerals, NEC
SCG730457	STUKES MINING CO/STUKES MINE	Industrial	30501110106	Santee	Clarendon		
SCG730685	L DEAN WEAVER/W L COKER PIT	Industrial	30402050404	PeeDee	Clarendon		
SCG730552	MCCUTCHEN FARMS/CALLOWAY PIT	Industrial	30402050404	PeeDee	Clarendon		
SCG730201	SPRINGFIELD REALTY/DOUBLE K MN	Industrial	30402050505	PeeDee	Clarendon	1442	Construction Sand and Gravel
SCG731059	RICKY GOFF/RICKY'S PIT MINE	Industrial	30402050603	PeeDee	Clarendon	1499	Miscellaneous Non-metallic minerals
SCG731388	RE GOODSON-GOODSON GAMBLE DOT MINE	Industrial	30402050602	PeeDee	Clarendon	1499	Miscellaneous Non-metallic minerals
SCG731404	MOUNTAIN CREEK CONTRACTORS-MC 378 MINE	Industrial	30402050407	PeeDee	Clarendon	1499	Miscellaneous Non-metallic minerals
SCG570034	USAF WATEREE RECREATION FACILITY	Industrial	30501040110	Catawba	Kershaw	7033	Recreational Vehicle Parks and Campsites
SCG730439	CAROLINA CERAMICS/DRY BR MINE	Industrial	30501040402	Catawba	Kershaw		
SCG730551	CAROLINA CERAMICS/KOON MINE	Industrial	30501040402	Catawba	Kershaw		
SCG730510	MERIDIAN BRICK/GADSON	Industrial	30501040402	Catawba	Kershaw		
SCG730047	L&L DISPOSAL LLC/SCREAMING EAGLE ROAD MINE	Industrial	30501040402	Catawba	Kershaw		
SCG730608	MILDRED R PORTER/PORTER PIT	Industrial	30501040402	Catawba	Kershaw		
SCG730606	C RAY MILES CONST/LUGOFF SAND	Industrial	30501040304	Catawba	Kershaw		
SCG730188	EASTERN LAND & TIMBR/IND PK MN	Industrial	30501040304	Catawba	Kershaw	1459	Clay, Ceramic, and Refractory Minerals, NEC
SCG730605	C RAY MILES CONST/TURTLE CREEK	Industrial	30501040304	Catawba	Kershaw		
SCG730382	COVIA HOLDINGS CORPORATION/LUGOFF PLANT	Industrial	30501040304	Catawba	Kershaw		
SCG670001	CAROLINA GAS TRANSMISSION CORP	Industrial	30402050102	PeeDee	Kershaw	4922	Natural Gas Transmission
SCG730522	CANTEY CONST/BUTTERNUT	Industrial	30501040204	Catawba	Kershaw		
SCG646025	CAMDEN, CITY OF/ WTR TTMT PLT	Municipal	30501040202	Catawba	Kershaw		
SCG730982	LOAMY LLC/KERSHAW SAND MINE	Industrial	30402020303	PeeDee	Kershaw		
SCG730982	LOAMY LLC/KERSHAW SAND MINE	Industrial	30402020303	PeeDee	Kershaw		
SCG730982	LOAMY LLC/KERSHAW SAND MINE	Industrial	30402020303	PeeDee	Kershaw		
SCG730982	LOAMY LLC/KERSHAW SAND MINE	Industrial	30402020303	PeeDee	Kershaw		
SCG730982	Martin Marietta-Loamy Sand and Gravel Mine	Industrial	30402020303	PeeDee	Kershaw		
SCG646020	LUGOFF-ELGIN WTR AUTH/WATER TP	Municipal	30501040208	Catawba	Kershaw	4941	Water Supply
SCG731072	LUCK STONE CORPORATION/KERSHAW PLANT MINE	Industrial	30501040201	Catawba	Kershaw	1423	Crushed and Broken Granite

NPDES	NAME	FAC_TYPE	HUC_12	BASIN	CNTY_NAME	SIC	SIC_DESC
SCG731072	LUCK STONE CORPORATION/KERSHAW PLANT MINE	Industrial	30501040201	Catawba	Kershaw	1423	Crushed and Broken Granite
SCG730215	GEORGIA STONE/KERSHAW QUARRY	Industrial	30501040109	Catawba	Kershaw	1411	Dimension Stone
SCG250279	TB KAWASHIMA USA	Industrial	30501040304	Catawba	Kershaw	2399	Fabricated Textile Products
SCG731164	Callahan Grading/1401 Cheraw Rd Mine	Industrial	30501040301	Catawba	Kershaw	1499	Miscellaneous Nonmetallic minerals
SCG730155	GEORGIA STONE IND/KERSHAW PINK	Industrial	30501040201	Catawba	Kershaw	1411	Dimension Stone
SCG250290	OAK-MITSUI INC	Industrial	30501040304	Catawba	Kershaw		
SCG731302	C RAY MILES CONSTRUCTION/SCDOT PIT 2	Industrial	30402020204	PeeDee	Kershaw	1499	Miscellaneous Non-metallic minerals
SCG731347	CHEROKEE-CREED HWY 97 DOT MINE	Industrial	30501040204	Catawba	Kershaw	1499	Miscellaneous Non-metallic minerals
SCG731348	HMH MINING LLC-MCCASKILL CREEK MINE	Industrial	30501040402	Catawba	Kershaw	1442	Construction Sand and Gravel
SCG250309	KPR US LLC dba Kendall Patient Recovery US LLC	Industrial	30501040302	Catawba	Kershaw	2211	Broadwoven Fabric Mills, Cotton
SCG250309	KPR US LLC dba Kendall Patient Recovery US LLC	Industrial	30501040302	Catawba	Kershaw	2211	Broadwoven Fabric Mills, Cotton
SCG731456	HMH MINING LLC/ST. PAUL PIT	Industrial	30501040208	Catawba	Kershaw	1499	Miscellaneous Non-metallic Minerals
SCG730597	THE BURKE CO/BURKE MINE	Industrial	30402050205	PeeDee	Lee	1499	Miscellaneous Nonmetallic Minerals, Except Fuels
SCG730694	LEE COUNTY BORROW PIT	Industrial	30402050109	PeeDee	Lee		
SCG646035	LYNCHBURG/TOWN OF WTP	Municipal	30402020504	PeeDee	Lee		
SCG730197	CLAUDE NEWMAN & SONS/CNS MINE	Industrial	30402050301	PeeDee	Sumter	1442	Construction Sand and Gravel
SCG570018	SUMTER COUNTY/I-95 REST AREA	Domestic	30402050501	PeeDee	Sumter	4952	Sewerage Systems
SCG570007	HIGH HILLS RURAL/HARWOOD MHP	Domestic	30402050301	PeeDee	Sumter	6515	Operators of Residential Mobile Home Sites
SCG730575	HANSON AGGR SE/HASSKAMP MINE	Industrial	30501040405	Catawba	Sumter		
SCG646052	SUMTER CO WATER PLANT #1	Municipal	30402050501	PeeDee	Sumter	4941	Water Supply
SCG730152	DYSON LANDSCAPING/CAINS MILL M	Industrial	30402050302	PeeDee	Sumter		
SCG731150	Palmetto Corp/Airport Mine	Industrial	30402050108	PeeDee	Sumter	1499	Miscellaneous Non-metallic minerals
SCG250295	APEX TOOL GROUP LLC	Industrial	30402050401	PeeDee	Sumter	3423	Hand and edge tools
SCG731242	PALMETTO CORP-PALMETTO MINE	Industrial	30402050301	PeeDee	Sumter	1499	Miscellaneous Non-metallic minerals
SCG731309	VB HAWTHORNE/12 BRIDGES RD MINE	Industrial	30402050401	PeeDee	Sumter	1499	Miscellaneous Non-metallic minerals
SCG250315	AMERICOLD LOGISTICS LLC	Industrial	30402050303	PeeDee	Sumter	4222	Refrigerated warehousing and storage

APPENDIX IV: UPPER WATEREE AGREEMENT

Agreement
between
South Carolina Department of Health and Environmental Control
Central Midlands Council of Governments, Santee-Lynches Regional Council of Governments,
Palmetto Utilities, Richland County, City of Camden, and Kershaw County

Whereas the South Carolina Department of Health and Environmental Control (DHEC) is responsible for issuing National Pollutant Discharge Elimination System (NPDES) permits in South Carolina, including developing wasteload allocations for NPDES discharges;

Whereas the Central Midlands Council of Governments (CMCOG) and the Santee-Lynches Regional Council of Governments (SLRCOG) are responsible for 208 Water Quality Planning in their designated areas and by agreement with DHEC, assist DHEC in wasteload allocation development;

Whereas the CMCOG and SLRCOG to date have not agreed on a transfer of the area of Kershaw County from the CMCOG 208 Plan to the SLRCOG 208 Plan, although SLRCOG has submitted for certification a proposed amendment of its plan to DHEC that incorporates the transfer;

Whereas the upper Wateree River or Wateree River as used in the context of this agreement is that area of the Wateree River from the Lake Wateree dam to a point on the Wateree River immediately upstream of the Wateree River Correctional Institution (SC Department of Corrections);

Whereas a new water quality model provides technical information that indicates that NPDES permits for the upper Wateree River should be modified to reduce pollutant loading (down to a current cumulative load of 11,024 pounds/day) impacting dissolved oxygen to meet the water quality standard for dissolved oxygen;

Whereas DHEC seeks to allocate loading for ultimate oxygen demand (UOD) between Richland County and Kershaw County sewerage systems;

Whereas Kershaw County seeks to have DHEC distribute total phosphorus loadings between City of Camden, Kershaw County and Palmetto Utilities;

Whereas it is anticipated that Clariant LSM (America) Inc. (SC0002682) would eliminate its Wateree River discharge during August, 2006 in accordance with a consent order with DHEC by connection to Palmetto Utilities sewerage system, but Kershaw County has indicated its intent and desire to accept such discharge at a time in the future;

Whereas all parties of this agreement seek a resolution to 208 Planning issues such that the CMCOG and SLRCOG would cooperatively and consistently amend their respective 208 Plans to allow SLRCOG to perform 208 Planning for the geographical area of Kershaw County;

Whereas Palmetto Utilities seeks to construct an effluent line to the Wateree River and use its 6.0 MGD NPDES permit and is therefore seeking a DHEC wastewater construction permit as well as a South Carolina Department of Transportation encroachment permit;

Whereas Kershaw County has had concern over the Palmetto Utilities NPDES permit for a discharge to the upper Wateree River and the construction of an effluent sewer line to the Wateree River;

Whereas Richland County has had concern over Kershaw County's efforts to prevent Palmetto Utilities from constructing an effluent sewer line to the Wateree River;

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Therefore, this agreement is entered into as follows:

1. Within 90 days of the effective date of this agreement, CMCOG will complete the necessary action to amend its 208 Plan to recognize that the area of Kershaw County will no longer be a part of the 208 planning responsibility of CMCOG;
2. CMCOG agrees to a Richland County UOD allocation of 31% for the upper Wateree River, which currently will be applied to the Palmetto Utilities NPDES permit as well as to any applicable new Wateree River NPDES permits (e.g., a new industry) where the facilities are located in Richland County but a discharge is approved to be in the Wateree River;
3. Within 90 days of the effective date of this agreement, SLRCOG will complete the necessary action to amend its 208 Plan to implement this agreement;
4. SLRCOG agrees to a UOD allocation of 69% for the upper Wateree River, which currently will be applied to Kershaw County (SC0039870), City of Camden (SC0021032), Invista (SC0002585) and Kawashima (SC0023264), but in the future would apply also to new permittees, if applicable;
5. SLRCOG recognizes that the 69% UOD allocation would be applied to any proposed expansions of the facilities in item 4 above as well as to any applicable new Wateree River NPDES permits (e.g., a new industry);
6. SLRCOG, Kershaw County and the City of Camden agree to affirm via a 208 Plan Amendment the following:
 - a) That Palmetto Utilities can discharge such amounts and concentrations of treated wastewater as can be accommodated by the 31% UOD allocated to Palmetto Utilities to the upper Wateree River via its NPDES permit.
 - b) That Palmetto Utilities can land apply treated wastewater in Kershaw County at its existing site and at a maximum of two additional sites to the extent permitted by DHEC.
 - c) Palmetto Utilities' construction permits to use the NPDES and land application permits.
 - d) That Palmetto Utilities, by virtue of a contract with Richland County is designated to discharge the designated management agency function of Richland County for the provision of sewer service in Richland County, and is viewed as a regional sewer provider in the context of the CMCOG 208 Plan. Therefore, the treatment plant and associated discharges for Palmetto Utilities within Kershaw County, may be expanded within the allocated 31% UOD without requiring an amendment of the SLRCOG 208 Plan. The 31% UOD allocated to Palmetto Utilities under the terms of this Agreement is solely within the jurisdiction of the CMCOG and its 208 Plan.
7. DHEC agrees to expeditiously review and make a certification decision regarding the 208 Plan Amendments of the SLRCOG and CMCOG currently-approved plans addressed in this agreement;
8. Palmetto Utilities shall not expand service territory within Kershaw County, recognizing that Palmetto currently serves Wood Trace and Heath Pond Subdivisions and Clariant LSM (America) Inc., in Kershaw County;
9. Palmetto Utilities will not oppose Clariant's industrial wastewater flow being transported to Kershaw County's treatment plant;
10. Kershaw County agrees that it will be responsible for accepting the industrial wastewater of Clariant LSM (America) Inc. at such time as its anticipated 4.0 MGD treatment system becomes operational and

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will obtain all DHEC approvals expeditiously. If the County determines prior to the operation of its anticipated 4.0 MGD treatment plant that it has capacity available, it will pursue accepting Clariant's wastewater at such time;

11. DHEC will allocate via draft NPDES permits 31% of the UOD loading in the upper Wateree River to sewerage systems serving northeast Richland County, which at the time of this agreement is exclusively Palmetto Utilities (SC0043451), recognizing that Palmetto Utilities also currently serves domestic wastewater from Clariant LSM (America) Inc and residential customers in the Wood Trace and Heath Pond subdivisions in Kershaw County. This 31% would apply to any future draft permits for a facility in Richland County with a proposed discharge to the Wateree River if the discharge were recognized by the CMCOG 208 Plan;

12. DHEC will allocate via draft NPDES permits the remaining 69% of the UOD loading in the upper Wateree River to sewerage systems serving the balance of Kershaw County, which at the time of this agreement consists of Kershaw County (SC0039870), City of Camden (SC0021032), Invista (SC0002585) and Kawashima (SC0023264); with assistance from the SLRCOG. This 69% would apply to any future draft permits for a facility in Kershaw County with a proposed discharge to the Wateree River if the discharge were recognized by the SLRCOG 208 Plan;

13. Kershaw County and the City of Camden agree to cease and refrain from any and all opposition to the construction of the proposed Palmetto Utilities effluent line to the Wateree River or the reissuance of Palmetto Utilities' 6.0 MGD NPDES permit;

14. Kershaw County agrees not to oppose the new influent sewer lines identified on Figure II-1, Wastewater Facilities Plan, Palmetto Utilities, Appendix C, CMCOG 208 Plan, 3/25/04 (Attachment A) proposed by Palmetto Utilities which would be located within Kershaw County, but have the purpose of serving areas outside of Kershaw County. Palmetto Utilities agrees that such new influent sewer lines shall not be used to provide service in Kershaw County and that, with respect to the lines designated as "14", "15" and "16" on Attachment A, Palmetto Utilities will not undertake the construction of same until three years after the date of this agreement. Palmetto Utilities further agrees that, with respect to the other lines in Kershaw County depicted on Attachment A, it will not undertake the construction of same until one year after the date of this agreement and will exercise its best efforts to delay construction of same until two years after the date of this agreement. For purposes of the preceding sentence, the phrase "best efforts" shall mean that Palmetto Utilities will not construct the lines contemplated therein prior to the end of the second year after the date of this agreement unless such construction is necessary in order for service to be provided to Palmetto Utilities' customers in Richland County. Palmetto Utilities will provide notice to Kershaw County in the event that construction of the unnumbered lines on Attachment A will be undertaken prior to the expiration of the two year period provided herein;

15. Richland County and Palmetto Utilities agree to cease any opposition to 208 Plan Amendments contemplated in this Agreement, including amendments which would transfer the area of Kershaw County from the CMCOG plan to the SLRCOG plan; and agrees not to oppose Kershaw County's 4.0 MGD NPDES permit and associated treatment plant construction permits;

16. Palmetto Utilities agrees to allow a transfer of a total of 43 pounds/day (average) of its anticipated total phosphorus loading for the benefit of Kershaw County's NPDES permit based on an anticipated 4.0 MGD NPDES permit for Kershaw County;

17. The parties agree that, after the phosphorus allocation transfer in Item #16 takes affect, phosphorus loadings to the Upper Wateree River are capped for their discharges within loadings based on current

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maximum permitted capacities, until such time that a TMDL for phosphorus in Lake Marion is completed; and

18. Palmetto Utilities, Richland County, CMCOG, Kershaw County, City of Camden, and SLRCOG agree that the attached map illustrates areas within Richland County which will constitute areas from which wastewater outside of the Wateree drainage basin in Richland County may be moved into the Wateree drainage basin in Richland County based upon the absence of other wastewater utility providers and the proximity of Palmetto Utilities' permitted facilities (See Attachment B.) This area is generally described as being west of the northwestern corner of Palmetto Utilities' existing service area as shown on Figure 6-1 of the 208 Water Quality Management Plan for the Central Midlands Region adopted March 25, 2004, by the Central Midlands Council of Governments ("CMCOG 208 Plan"), is more particularly shown on a portion of the 1972 South Carolina Department of Transportation General Highway Map for Richland County, last revised January 1, 1994 attached hereto as Attachment B, and is more particularly described as follows:

Commencing at the point where U.S. Highway 321 intersects with the boundary between Fairfield and Richland counties and running south along U.S. Highway 321 to the point where it intersects with State Highway 1282; thence turning and running in a easterly direction along County Road 1282 to the point where it intersects with County Road 1352; thence turning and running north along County Road 1352 to the point where it intersects with County Road 1694; thence turning east and running along County Road 1694 to the point where it intersects with U.S. Highway 21; thence turning and running north along U.S. Highway 21 to the point where it intersects with an unpaved county road; thence turning and running in an easterly direction along the unpaved county road beneath right of way of Interstate Highway 77 to the point where said unpaved county road intersects with S.C. Highway 555; thence turning and running in a northerly and northwesterly direction along S.C. Highway 555 to the point where it intersects with U.S. Highway 21; thence turning and running north along U.S. Highway 21 to the point where it intersects with County Road 1856; thence turning and running in a westerly direction along County Road 1856 to and beneath the right of way of Interstate Highway 77 and continuing in a southwesterly direction along a line that is located generally on the northern side of County Road 536 and continuing to run along such line until it reaches a point on an unpaved county road; thence turning and running in a northwesterly direction toward a point on County Road 2200 which is northeast of its intersection with County Road 406; thence turning and running northeast along County Road 2200 to the point where it intersects with County Road 59; thence turning and running in a northwesterly direction along a line located on the western side of the easternmost branch of Persimmon Fork Creek and across said branch of said creek to a point where County Road 283 intersects with the boundary of Richland and Fairfield counties line; thence turning and running in a westerly direction along the boundary of said counties until the point of commencement is reached.

The parties agree and acknowledge that, with respect to the areas in Richland County outside the Wateree Drainage Basin, but currently located within Palmetto Utilities' service area as delineated on Figure 6-1 of the CMCOG 208 Plan, wastewater may continue to be moved from said areas into the Wateree Drainage Basin.

Nothing in this Agreement is intended to alter DHEC's authorities and regulatory programs, including its Consent Order with Clariant LSM (America) Inc.; notwithstanding the foregoing, DHEC represents that it has the authority to enter into this agreement and bind itself thereby.

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208 WQ M AB JCF. NW C-5

Nothing in this Agreement is intended to alter Kershaw County's or Richland County's authorities and regulatory programs; notwithstanding the foregoing, Kershaw County and Richland County represent that it has the authority to enter into this agreement and bind itself thereby.

All parties agree to a joint public statement upon final execution of this agreement.

Kershaw County, City of Camden, and SLRCOG agree to issue a statement supporting the issuance of the Palmetto Utilities permits that are subject to this agreement.

Palmetto Utilities, Richland County, and the CMCOG agree to issue a statement supporting the issuance of the Kershaw County and City of Camden permits that are subject to this agreement.

The signatory of each party must indicate by the respective signature if this agreement is contingent on any needed approvals by the representative's Boards or Councils. All parties agree to pursue any needed approvals by the first available Board or Council meeting.

Nothing in this Agreement is intended to grant any new service area rights in Kershaw County.

This Agreement can be voided by any party thereto by written notice to the other parties if:

- a) DHEC's final NPDES permits vary from the 31%/69% allocation provided for in items "11" and "12" above; or
- b) DHEC's final NPDES permit for Kershaw County does not have a total phosphorus average loading limit of at least 67 pounds/day; or
- c) DHEC does not finally reissue to Palmetto Utilities the 6.0 MGD NPDES discharge permit or finally issue a construction and operation permit to Palmetto Utilities for the effluent line to the Wateree River, or if DHEC reissues said NPDES permit and issues said effluent line construction and operation permit and either such permit is contested and the reissuance or issuance of same is finally prevented; or
- (d) (i) DHEC does not issue the 4.0 MGD NPDES discharge permit for Kershaw County or (ii) a party (or an agent thereof) to this agreement contests the issuance of the 4.0 MGD NPDES discharge permit or any associated treatment plant construction permits legally. Provided, however, that item (i) of this paragraph (d) shall only apply and be effective if Kershaw County shall satisfy DHEC's requirements for issuance of said permit within ninety (90) days of the date of execution of this Agreement; or
- e) The 208 Plan Amendments addressed in this agreement are not certified by DHEC and approved by EPA.

Signature Page Follows

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Board/Council
Approval Needed?

Alton C. Boozer, Jr. Date 5/23/06 Yes ___ No
Deputy Commissioner for Environ. Quality Control
DHEC

Norman White III Date 5/23/06 Yes No ___
Executive Director
CMCOG

James L. Darby, Jr. Date 5/24/06 Yes No ___
Executive Director
SLRCOG

J. K. ... Date 5/23/06 Yes No ___
Kershaw County

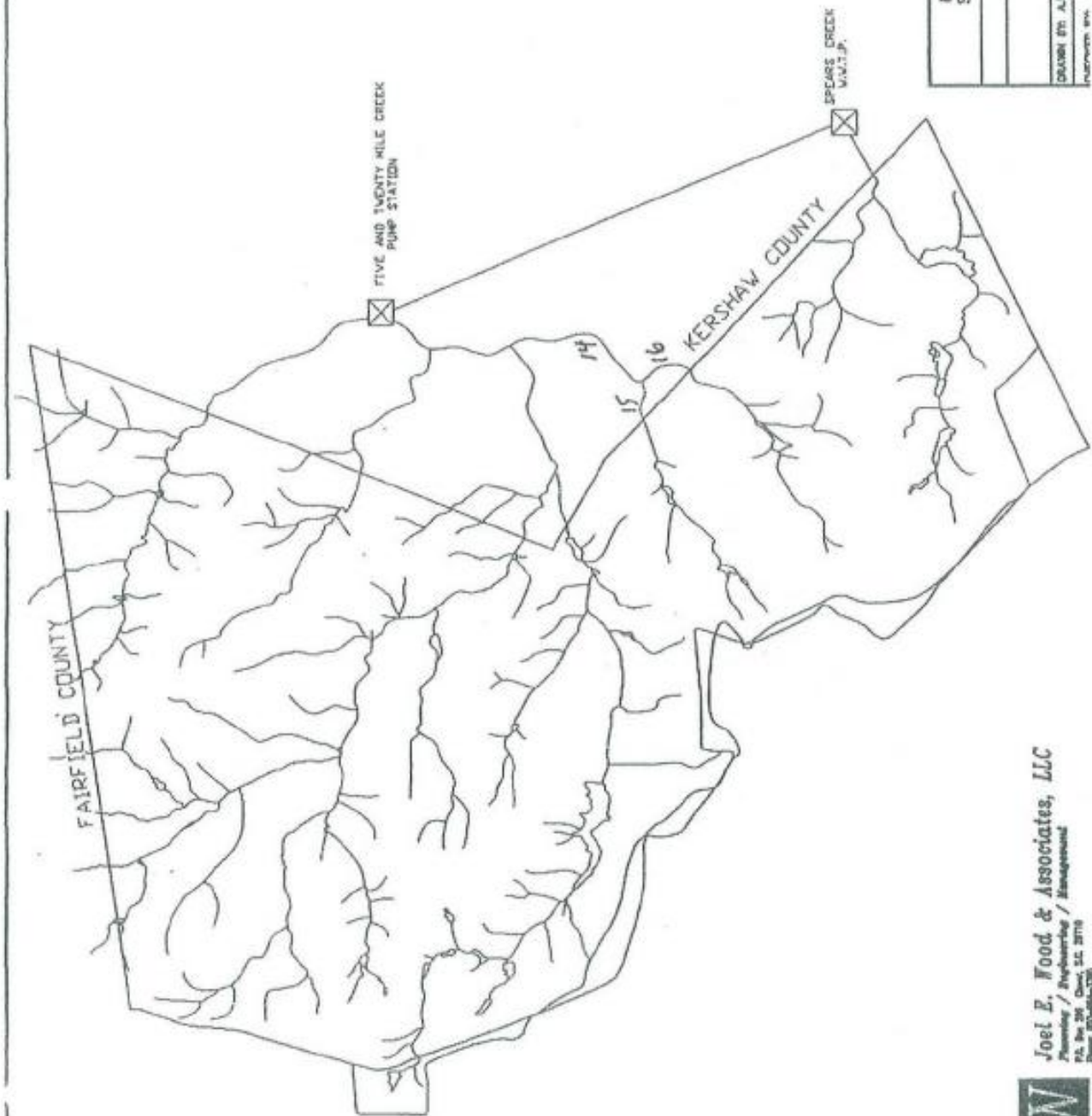
B. J. ... Date 5/24/06 Yes No ___
City of Camden

... Date 5/23/06 Yes ___ No
President, Palmetto Utilities

... Date 5/25/06 Yes No ___
Richland County

Handwritten mark

Attachment "A"



PALMETTO UTILITIES SEWER STUDY AREA	
PLANNING AREA MAP	
FIGURE 5-1	
DATE: 07/11/01	SCALE: 1/8" = 1' (AS SHOWN)
DRAWN BY: A.B.E.	SCALE: 1/8" = 1'
DESIGNED BY: J.E.W.	PROJECT NO.: 01-01-001

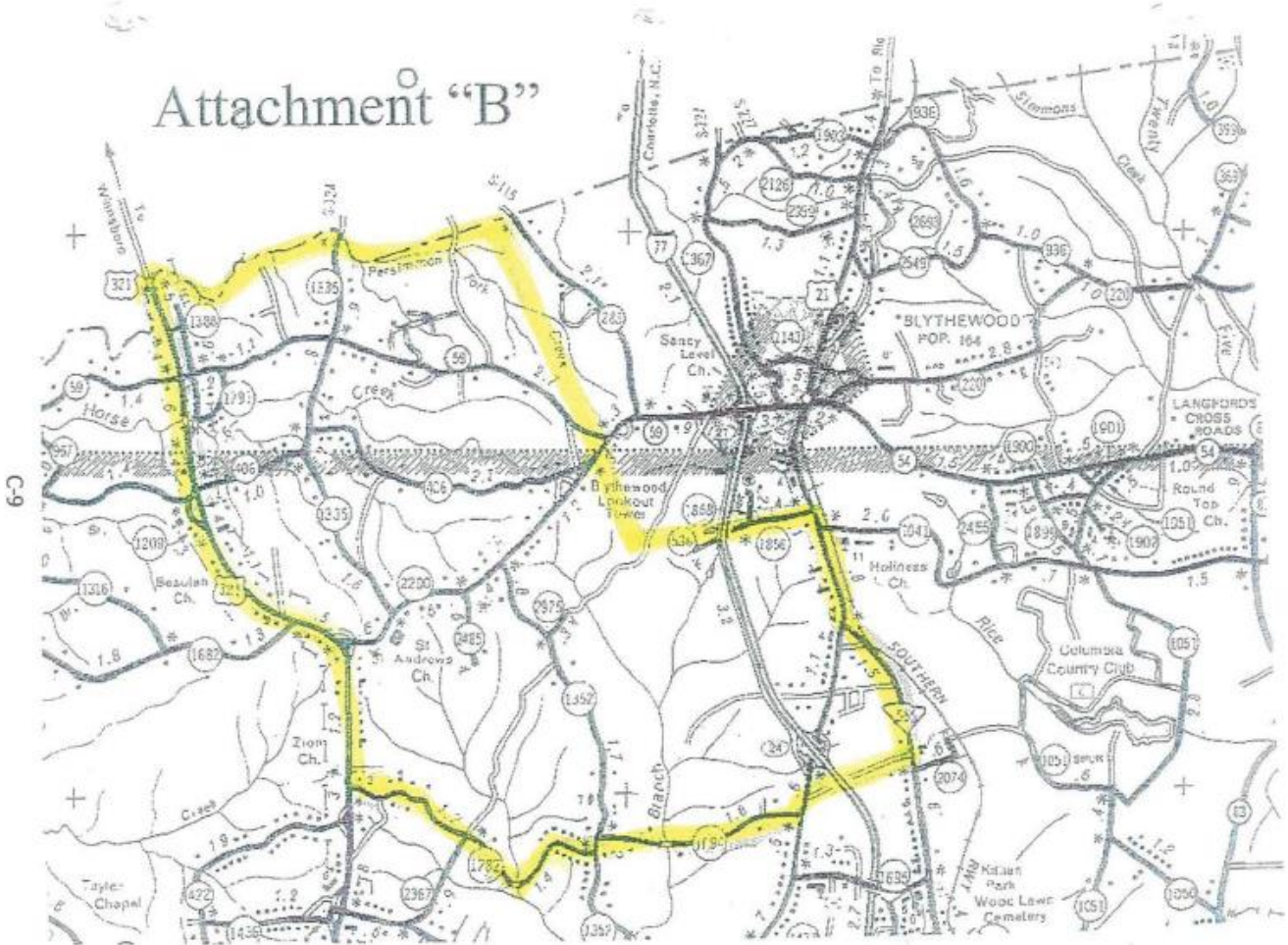
Joel E. Wood & Associates, LLC
 Planning / Engineering / Environment
 P.O. Box 260, Orem, UT 84057
 Phone: 801-224-3333



copy Mr. AEB

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Attachment "B"



APPENDIX V: PLAN AMENDMENT PROCESS

Plan Amendments

In the event an application for a proposal or project is determined not to be in conformance with the WQMP, a request may be made to Santee-Lynches to amend the plan. Amendment Applications are classified as either major or minor. Major amendments require DHEC certification and EPA approval. Minor amendments do not require DHEC certification or EPA approval. Santee-Lynches will determine whether a request calls for a major or minor amendment. All amendments referred to DHEC must originate from the Santee-Lynches Board of Directors.

Major WQMP amendments are defined as the following:

1. New wastewater treatment facilities (WWTF) with a design flow of 1.0 million gallons per day (MGD) or more, or
2. Expansion of existing WWTFs by least 50% of the currently designed flow capacity, or
3. Changes in management agency status, condition, or geographic management areas that significantly alters the provision of wastewater collection, transportation, treatment, and effluent disposal or potentially impairs receiving stream water quality, or
4. Proposed projects which conflict with the goals and objectives of the WQMP, or specifically stated plan policies that would require a WQMP amendment.

Minor WQMP amendments are defined as the following:

1. New WWTFs with a design flow of less than 1.0 MGD, or
2. Expansion of existing WWTFs of less than 50% of the currently designed flow capacity, or
3. Changes in management agency status, condition, or geographic management area such that does not significantly alter the provision of wastewater collection, transport, treatment, and effluent disposal or potentially impairs receiving stream water quality, or
4. A proposed change in the current effluent disposal method, discharge point, or service area for an existing WWTF that would be consistent with goals and objectives of the WQMP.

Once a determination has been made that a plan amendment is required, the applicant shall be notified in writing to initiate the amendment process. The applicant will also be responsible for all initial submission requirements and any additional information or studies requested during the amendment process by Santee-Lynches, the EPAC or Santee-Lynches Board of Directors. Unless otherwise directed by the Chairman of the EPAC, with concurrence from the Chairman of the Santee-Lynches Board of Directors, the EPAC will review all proposed major amendments and submit recommendations to the Santee-Lynches Board of Directors for final action. Proposed minor amendments may be brought before the EPAC at the request of the EPAC Chairman or referred to Santee-Lynches for submission to the Santee-Lynches Board of Directors.

The applicant for a major or minor amendment request should be present during the EPAC and/or Santee-Lynches Board of Directors meetings to discuss or present the amendment request and to respond to questions from either body. Major or Minor amendment recommendations by the EPAC to the Santee-Lynches Board of Directors will take one of the following forms:

1. Approval
2. Approval with Conditions
3. Denial (In cases of denial, the applicant may choose to revise their application and re-submit the request)

In the case of a major plan amendment request, a public information meeting must be advertised in the applicable newspaper of record at least fifteen (15) days prior to the meeting date. Following the public information meeting, the request may be placed on the Santee-Lynches EPAC agenda. In the case of a minor amendment, the request may be placed directly on the Santee-Lynches EPAC agenda. After consideration by the EPAC, the amendment request, major or minor, will be placed on the agenda for the Santee-Lynches Board of Directors. The EPAC Chairman, assisted by Santee-Lynches, will present the proposed amendment, the recommendation of the EPAC, and a summary of public comments, if applicable. The applicant and other parties may attend the Santee-Lynches Board Meeting and may address the issue at the discretion of the Santee-Lynches Board of Directors. Action taken by the Santee-Lynches Board of Directors will take one of the following forms:

1. Approval
2. Approval with Conditions
3. Denial
4. Refer back to EPAC for further study

If a proposed amendment is deemed approvable, a resolution to amend the WQMP to incorporate the collection, treatment, and/or disposal alternatives identified in the proposed facilities plan/update will be presented to the Santee-Lynches Board of Directors. If the resolution is adopted for a major amendment, the amendment will then be certified by DHEC and approved by EPA; for a minor amendment, the information will be incorporated into the WQMP.

Appeals

If a request for a WQMP amendment is denied by the Santee-Lynches Board of Directors, the applicant may appeal. An advertised public information meeting may be held for any proposed plan amendment under circumstances determined appropriate by the Santee-Lynches Board of Directors, and will be scheduled following an EPAC recommendation, when required. The meeting may be held in the applicant's jurisdiction, or at the Santee-Lynches office. The meeting will be scheduled for a weekday evening and be held in an ADA-accessible public building.

Public notice will consist of an advertisement published in the applicable newspaper of record in the region at least fifteen (15) days prior to the meeting. The grieving applicant will provide an appropriate number of review copies of their proposal to Santee-Lynches at least five (5) days in advance of the public meeting. The original proposal and its supporting documentation, as well as the EPAC recommendation and final decision,

will be made available for public inspection during normal business hours prior to the meeting. The advertisement will state where and when these materials will be available.

The public information meeting will be conducted by the Chairman of the EPAC or their designee. The grieving applicant must attend the public meeting to respond to questions from the public concerning the proposed plan amendment. Verbal and written comments will be received at the meeting. Additional written comments may be submitted up to ten (10) days following the public meeting.

The Santee-Lynches Board of Directors will give such consideration as it deems appropriate to the discovery of any new factual information provided to the applicant or as a result of public meeting comments, prior to rendering its own formal recommendation to DHEC regarding a proposed WQMP Amendment.

APPENDIX VI: PLAN UPDATE PROCESS

Plan Updates

Although WQMP updates have no specific information requirements beyond that contained in the original legislation, amendments and subsequent updates to the regulations continue to address several priority elements, including implementation measures, municipal and industrial waste treatment needs, management agencies, total maximum daily loads (TMDLs), effluent limitations, the need for basin plans, and nonpoint source management and control. A WQMP update may discuss any or all of these elements. A WQMP update requires review and approval by the Santee-Lynches Board of Directors.

Annual plan reviews and possible updates are to be conducted at the end of each federal fiscal year. The update will include the changes to the WQMP which have occurred during the past fiscal year. It is recommended that a comprehensive revision of the WQMP be carried out every five (5) years, or when there has been a substantial and fundamental change in conditions in the WQMP area. Public input must be taken as part of the revision process, and the Santee-Lynches Board of Directors must adopt the new Plan.

Santee-Lynches Regional Council of Governments Board of Directors Approved Amendments to the Santee-Lynches Water Quality Management Plan (WQMP)

#	Date Amendment Approved by SLRCOG Board	Action
	April 2003	Santee-Lynches 208 WQMP adopted by the SLRCOG Board of Directors
1	August 2, 2004	SLRCOG Board of Directors approved a recommendation to allow Kershaw County, City of Camden, and the Town of Bethune to participate in the Santee-Lynches 208 WQMP.
2	February 7, 2005	SLRCOG Board of Directors approved a major amendment to increase the treatment capacity of the Summerton WWTP by 50% from 0.349 to 0.700 MGD.
3	December 5, 2005	SLRCOG Board of Directors approved language adjustment to the 208 WQMP to meet stipulations requested by Central Midlands to accommodate the transfer of Kershaw County and the City of Camden to the Santee-Lynches 208 Planning area. (added a section to the 208 Plan to identify the private wastewater utilities operating in the SL Region that were regulated by SC Public Service Commission, etc.)
4	March 6, 2006	Major amendment to increase the capacity of the Kershaw County Lugoff WWTP from 1.25 MGD to 4.0 MGD.
5	August 7, 2006	Amended the SL 208 WQMP to add Kershaw County to the Santee-Lynches 208 Water Quality Management Planning area. Included the Upper Wateree River Agreement (May 23, 2006) and Fact Sheet.
6	April 6, 2009	Major amendment to increase the discharge capacity of the Wyboo WWTP from 0.184 to 0.5 MGD.
7	November 2, 2009	Major amendment to increase the treatment capacity of the Manning WWTP from 2.5 to 5.0 MGD. Added the Regional Wastewater System Master Service Agreement (dated December 13, 2007; Rev 08-14-09) between Sumter and Clarendon Counties, the Cities of Manning and Sumter and the Towns of Summerton and Turbeville.
8	November 1, 2010	Minor amendment to increase the capacity of Camden Wastewater Treatment Plant from 3.0 MGD to 4.0 MGD
9	March 7, 2016	Major amendment to increase the capacity of Suominen Nonwovens Wastewater Treatment plant from 0.89 MGD to 1.426 MGD
10	August 5, 2024	Major amendment to increase the treatment capacity of the Kershaw Lugoff WWTP from 2.0 to 3.0 MGD.