WATERSHED INVENTORY REPORT

WATERSHED IMPROVEMENT PLAN – PHASE 1
MUNICIPAL TIER A AND PUBLIC COMPLEX PERMITTEES

TOWNSHIP OF CEDAR GROVE, COUNTY OF ESSEX, STATE OF NEW JERSEY

Prepared For: **Township of Cedar Grove**
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Cedar Grove, New Jersey 07009

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NJG0150533

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1.0 ACRONYMS & DEFINITIONS

1.1 Acronyms

"BMP" – Best Management Practice

"DO" – Dissolved Oxygen

"EPA" – U.S. Environmental Protection Agency iv.

"GIS" – Geographic Information System

"HUC 14" – Hydrologic Unit Code 14

"MS4" – Municipal Separate Storm Sewer System

"MTD" – Manufactured Treatment Device

"NJPDES" – New Jersey Pollutant Discharge Elimination System

"NJ-WET" – New Jersey Watershed Evaluation Tool

"TDS" – Total Dissolved Solids

"TMDL" – Total Maximum Daily Load

"TSS" – Total Suspended Solids

"WIP" – Watershed Improvement Plan

1.2 Definitions

"HUC 14" or "hydrologic unit code 14" means an area within which water drains to a particular receiving surface water body, also known as a subwatershed, which is identified by a 14-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey. (N.J.A.C. 7:9B)

"Municipal separate storm sewer" (or MS4 conveyance) means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) as defined in more detail at N.J.A.C. 7:14A-1.2.

"Outfall" means any point source which discharges directly to waters of the United States and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other waters of the United States and are used to convey waters of the United States.

"Storm drain inlet" means the point of entry into the storm sewer system.

"Stormwater" means water resulting from precipitation (including rain and snow) that runs off the land's surface, is transmitted to the subsurface, is captured by separate storm sewers or other sewerage or drainage facilities or is conveyed by snow removal equipment.

"Stormwater facility" means stormwater infrastructure including, but not limited to, catch basins, infiltration basins, detention basins, green infrastructure (GI), filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, Manufactured Treatment Devices (MTDs), and stormwater conveyances.

"Stormwater management basin" means a stormwater management basin as defined in N.J.A.C. 7:8.

"Stormwater management measure" means a stormwater management measure as defined in N.J.A.C. 7:8.

"Stormwater runoff" means water flow on the surface of the ground or in storm sewers, resulting from precipitation.

"Total maximum daily load" or "TMDL" means a total maximum daily load formally established pursuant to Section 7 of the Water Quality Planning Act (N.J.S.A. 58:11A-7) and Section 303(d) of the Clean Water Act, 33 U.S.C. §§12512 et seq. A TMDL is the sum of individual wasteload allocations for point sources, load allocations for nonpoint sources of pollution, other sources such as tributaries or adjacent segments, and allocations to a reserve or margin of safety for an individual pollutant.

"Waters of the State" means the ocean and its estuaries, all springs, streams and bodies of surface or ground water, whether natural or artificial, within the boundaries of the State of New Jersey or subject to its jurisdiction" (see N.J.A.C. 7:9B-1.4).

2.0 DATA REQUIREMENTS & RESOURCES

Required Data	Data Source
1. All stormwater outfalls owned/operated by the permittee	MS4 Infrastructure Map
2. Drainage area for each permittee owned/operated outfall	Topography ArcGIS Solutions/ArcHydro
3. Receiving waterbodies of those outfalls	NJ-WET NJDEP Open Data
4. Water quality classification of all receiving waterbody segments	NJ-WET NJDEP Open Data
5. All stormwater interconnections from the permittee's MS4 system into another entities' storm or sanitary sewer system	MS4 to MS4 interconnections acquired in MS4 Infrastructure Map, private interconnection(s) needed
6. The drainage area for each interconnection into another entities' storm or sanitary sewer system	Topography ArcGIS Solutions/ArcHydro
7. All stormwater interconnections into the permittee's system from another entities' storm sewer system	MS4 to MS4 interconnections acquired in MS4 Infrastructure Map, private interconnection(s) needed
8. All storm drain inlets owned/operated by the permittee	MS4 Infrastructure Map
9. Area associated with each TMDL for waters that lie within or bordering the permittee's property(s)/jurisdiction	NJ-WET NJDEP Open Data
10. Area associated with each water quality impairment for waters that lie within or bordering the permittee's property(s)/jurisdiction	NJ-WET NJDEP Open Data
11. Overburdened communities	NJ-WET NJDEP Open Data EJMAP
12. Impervious areas	NJ-WET NJDEP Open Data
13. Location and ownership of all stormwater infrastructure not owned or operated by the permittee	H&H Database

The following resources are compiled to highlight the current WIP guidance and available datasets.

2.1 New Jersey Watershed Evaluation Tool (NJ-WET)

NJ-WET was developed by the Bureau of NJPDES Stormwater Permitting and Water Quality Management to assist permittees in the development and implementation of their WIPs. Users can download the following data and create unique PDF maps of the following:

- Receiving surface waterbodies of outfalls
- Water quality classification of all receiving surface waterbody segments
- Subwatersheds associated with TMDLs
- Subwatersheds associated with water quality impairments

- Overburdened communities
- Impervious areas

Link to NJ-WET:
https://experience.arcgis.com/experience/f40f65d807bb4372bd92b48bb98f1972

2.2 NJDEP Open Data

NJDEP Open Data is a site hosted by the Bureau of GIS which congregates a multitude of publicly available data for download and manipulation. Some examples of datasets available for download that may assist in the development and implementation of the WIP are:

- Receiving surface waterbodies of outfalls
- Water quality classification of all receiving surface waterbody segments
- Subwatersheds associated with TMDLs
- Overburdened communities
- Impervious areas
- Land use cover
- Elevation
- Hydrography

Link to NJDEP Open Data: https://gisdata-njdep.opendata.arcgis.com/

2.3 MS4 WIP Guidance Webpage

The Bureau of NJPDES Stormwater Permitting and Water Quality Management hosts guidance on the webpage that captures the following:

- Pollutants of Concern Summaries – Provides detailed descriptions of each water quality parameter of concern from MS4s and the related effects on the environment
- WIP Matrix – Provides examples of projects that would address different pollutant parameters
- Project Descriptions – Provides a narrative description of each project from the accompanying WIP Matrix

Link to MS4 WIP guidance: https://dep.nj.gov/njpdes-stormwater/municipal-stormwater-regulationprogram/watershed-improvement-plan-guidance/

2.4 TMDL Lookup Tool

The TMDL Lookup Tool allows users to search by county and municipality to obtain links to the specific TMDL reports generated for each subwatershed within the selected municipal boundary.

Link to TMDL Lookup Tool: https://dep.nj.gov/njpdes-stormwater/municipal-stormwater-regulation-program/tmdl/

2.5 New Jersey's Integrated Water Quality Assessment Reports – 303(d) List

The 303(d) list is required under Section 303(d) of the federal Clean Water Act, which mandates that states submit to USEPA, on a biennial basis, a list of waters that do not support their designated uses because they are not meeting surface water quality standards despite the implementation of technology-based effluent limits. All such waters must be identified on the 303(d) List of Water Quality Limited Waters ("303(d) List"). States must prioritize 303(d)-listed waters for Total Maximum Daily Load (TMDL) development and identify those high

priority waters for which they anticipate establishing TMDLs in the next two years. The 303(d) List must be submitted to USEPA by April 1 of every even-numbered year. Since 2002, New Jersey has developed and submitted its 303(d) List and Two-Year TMDL Schedule as part of the Integrated Report.

Link to the Department's information: https://dep.nj.gov/wms/bears/water-quality-assessment/

2.6 New Jersey Environmental Justice Mapping, Assessment, and Protection Tool (EJMAP)

This tool was designed to support the NJDEP's efforts to implement the State's Environmental Justice (EJ) Law through its regulatory and permitting processes. More information on overburdened communities and data related to this may be found here.

Link to NJDEP's EJ Map:
https://experience.arcgis.com/experience/548632a2351b41b8a0443cfc3a9f4ef6

2.7 H&H Database

The New Jersey Hydrologic Modeling Database, or "H&H Database," is the culmination of several decades of data collection effort by NJ Soil Conservation Districts and the NJ Department of Agriculture (NJDA). The data contained in the database was originally submitted to NJ soil conservation districts as part of the permit review process and are part of the public record. While every effort has been made to review the data for accuracy and correctness, the final responsibility for accuracy rests with the original designer(s). Site plans and design data are subject to all applicable copy write and intellectual property rights laws. The data available in this database can provide a starting point for permittees to identify potential private stormwater management measures within the permittee's jurisdiction. Link to H&H Database: https://hydro.rutgers.edu/about/

3.0 LIST OF FIGURES

4.0 LIST OF TABLES

5.0 ACKNOWLEDGEMENTS

The Township of Cedar Grove's Watershed Inventory Report has been prepared by Suburban Consulting Engineers. No additional outside funding sources were utilized for the preparation of this report.

6.0 REGIONAL COLLABORATION

The Township of Cedar Grove did not collaborate with any other entities during the preparation of this report.

7.0 INTRODUCTION

7.1 Location

Tier A Municipality: Township of Cedar Grove, County of Essex,
525 Pompton Avenue,
Cedar Grove, NJ 07009

7.2 Population

- 12,980 – taken from the 2020 United States Census from P1 Race Tables
- 13,252 - taken from the 2020 United States Census from S0101 Age and Sex Tables

7.3 Demographics

- **Sex**
  - 44% Male (5,839 of 13,252),
  - 56% Female (7,413 of 13,252)
- **Race**
  - 77.33% Caucasian (10,037 of 12,980),
  - 2.47% African American (321 of 12,980),
  - 0.19%American Indian and Alaska Native (25 of 12,980)
  - 7.91% Asian (1,027 of 12,980),
  - 0.02% Native Hawaiian and Other Pacific Islander (3 of 12,980),
  - 2.64% Other (343 of 12,980)
  - 9.43% Two or More Race (1,224 of 12,980)

Reference: 2020 United States Census

7.4 Land Use Types

- Urban, Forest, Agriculture, Barren Land, Water, and Wetlands

Reference: Most recent Land Use data hosted by NJDEP via NJDEP Open Data

7.5 Subwatersheds within or bordering (Township of Cedar Grove)

- HUC14: 02030103120100, Passaic R Lwr (Pump Stn to Pompton R)
- HUC14: 02030103120110, Passaic R Lwr (Goffle Bk to pump stn)
- HUC14: 02030103120020, Peckman River (below CG Res trib)
- HUC14: 02030103120060, Deepavaal Brook
- HUC14: 02030103010180, Passaic R Upr (Pine Bk br to Rockaway)
- HUC14: 02030103120010, Peckman River (above CG Res trib)
- HUC14: 02030103150020, Second River
- HUC14: 02030103150010, Third River

7.6 Areas Prone To Flooding

- FEMA FIRM FLOOD MAP PANEL 34013C0101FEFFECTIVE DATE 6/4/2007 DEPICTS AREAS PRONE TO FLOODING;
- 34031C0213GAREA NOT PRONE TO FLOODING PER FEMA MAP
- 34013C0082G AREA NOT PRONE TO FLOODING FEMA MAP
- 34013C0102G AREA NOT PRONE TO FLOODING FEMA MAP
- 34013C0082GAREA NOT PRONE TO FLOODING FEMA MAP
- 34013C0103FAREA NOT PRONE TO FLOODING FEMA MAP
- 34013C0104G AREA NOT PRONE TO FLOODING FEMA MAP

7.7 Goal of the Watershed Improvement Plan

The goal for the Watershed Improvement Plan is to confirm MS4 compliance for the Township of Cedar Grove and to identify all infrastructure components including but not limited to: Catch Basins, Manholes, Outfalls, Interconnections, Pump Stations, and Stormwater Facilities.

Electronic data required for submission: None required for this section.

8.0 PUBLIC PARTICIPATION

The Township of Cedar Grove did not collaborate with any other entities during the preparation of this report.

The Township does sit on the Flood Control Advisory Board with the Township of Verona where collaboration on flood improvements are discussed. Public meetings are held quarterly, the last meeting was held on October 16, 2025 and attended by the Township of Verona, the Township of Cedar Grove, the Borough of Woodland Park and the Township of Little Falls.

9.0 STORMWATER OUTFALLS

9.1 Stormwater Outfalls Owned/Operated by Permittee

The data utilized in determining outfalls was existing, mapped data obtained from the Township, existing stormwater infrastructure mapping, and supplemental information obtained from existing State and County roadway information.

There are a total of 24 outfalls that have been identified by NJDEP in which the Township of Cedar Grove claims ownership.

Table 9.1: Number Of Outfalls That Discharge Into Each Sub Watershed

HUC 14	Subwatershed Name	Number of Outfalls
2030103120020	Peckman River (below CG Res trib)	23
2030103120010	Peckman River (above CG Res trib)	1
2030103120100	Passaic R Lwr (Pump Stn to Pompton R)	0
2030103120110	Passaic R Lwr (Goffle Bk to pump stn)	0
2030103120060	Deepavaal Brook	0
2030103010180	Passaic R Upr (Pine Bk br to Rockaway)	0
2030103150020	Second River	0
2030103150010	Third River	0

9.2 Receiving Surface Waters

The receiving surface water data was obtained using the New Jersey Watershed Evaluation Tool (NJWET), dated September 25, 2025.

Table 9.2: Percentage Of Outfalls That Discharge Into Receiving Surface Waters

Receiving Surface Water Body	Water Quality Classification	Percentage of Outfall Per Receiving Surface Water Body
Peckman River	FW2-NT	38%
Peckman River Tributary	FW2-NT	17%
Taylor Brook	FW2-NT	8%
Taylor Brook Tributary	FW2-NT	21%
Un-coded Tributary	FW2-NT	17%

9.3 Water Quality Classifications

One hundred (100) percent of the Cedar Grove Outfalls discharge into FW2-NT (Freshwater except Pinelands waters, non-trout). The water quality classifications were obtained using the New Jersey GeoWeb. Data was collected on September 25, 2025.

Table 9.3: Receiving Surface Water Bodies & Water Quality Classifications

Number	Local Outfall ID	Receiving Surface Water Body	Water Quality Classification
1	OF-5	Peckman River tributary	FW2-NT
2	OF-7	Peckman River tributary	FW2-NT
3	OF-11	Peckman River	FW2-NT
4	OF-18	Peckman River	FW2-NT
5	OF-19	Peckman River	FW2-NT
6	OF-23	Peckman River	FW2-NT
7	OF-27	Peckman River	FW2-NT
8	OF-28	Peckman River	FW2-NT
9	OF-29	Peckman River tributary	FW2-NT
10	OF-30	Peckman River tributary	FW2-NT
11	OF-53	Peckman River	FW2-NT
12	OF-54	Peckman River	FW2-NT
13	OF-55	Taylor Brook	FW2-NT
14	OF-64	Un-coded tributary	FW2-NT
15	OF-78	Taylor Brook tributary	FW2-NT
16	OF-79	Taylor Brook tributary	FW2-NT
17	OF-80	Taylor Brook tributary	FW2-NT
18	OF-81	Taylor Brook Tributary	FW2-NT
19	OF-90	Taylor Brook tributary	FW2-NT
20	OF-91	Taylor Brook	FW2-NT
21	OF-94	Un-coded tributary	FW2-NT
22	OF-95	Un-coded tributary	FW2-NT
23	OF-96	Un-coded tributary	FW2-NT
24	OF-97	Peckman River	FW2-NT

- **See Appendix A for Township of Cedar Grove MS4 Outfalls Map.**
- **See Appendix B for Receiving Waterbodies of Outfalls.**
- **See Appendix C for Water Quality Classification of All Receiving Waterbody Segments**

Electronic data required for submission: None required for this section.

10.0 STORMWATER INTERCONNECTIONS

10.1 Interconnections from the permittee's MS4 into another Entity

SCE utilized existing, mapped data obtained from the Township, existing stormwater infrastructure mapping, and supplemental information obtained from existing State and County roadway information in determining interconnections from Cedar Grove into another entity's system.

There are 36 total interconnections from the Township of Cedar Grove's MS4 in another entity's stormwater, sanitary, or combined sewer collection system.

Table 10.1: Entities Receiving Stormwater Flow From The Township Of Cedar Grove's MS4

Number	Interconnection ID	Upstream Entity	Downstream Entity	Interconnection Type
1	IC-14	Cedar Grove	Verona	Pipe
2	IC-15	Cedar Grove	Verona	Pipe
3	IC-16	Cedar Grove	Verona	Pipe
4	IC-18	Cedar Grove	Verona	Pipe
5	IC-26	Cedar Grove	Little Falls	Pipe
6	IC-27	Cedar Grove	Passaic County	Pipe
7	IC-28	Cedar Grove	NJDOT	Pipe
8	IC-29	Cedar Grove	NJDOT	Pipe
9	IC-31	Cedar Grove	NJDOT	Pipe
10	IC-34	Cedar Grove	NJDOT	Pipe
11	IC-36	Cedar Grove	NJDOT	Pipe
12	IC-37	Cedar Grove	NJDOT	Pipe
13	IC-38	Cedar Grove	NJDOT	Pipe
14	IC-40	Cedar Grove	NJDOT	Pipe
15	IC-41	Cedar Grove	NJDOT	Pipe
16	IC-44	Cedar Grove	Essex County	Pipe
17	IC-47	Cedar Grove	Essex County	Pipe
18	IC-49	Cedar Grove	Essex County	Pipe
19	IC-50	Cedar Grove	Essex County	Pipe
20	IC-51	Cedar Grove	Essex County	Pipe
21	IC-52	Cedar Grove	Essex County	Pipe
22	IC-53	Cedar Grove	Essex County	Pipe
23	IC-54	Cedar Grove	Essex County	Pipe
24	IC-55	Cedar Grove	Essex County	Pipe
25	IC-56	Cedar Grove	Essex County	Pipe
26	IC-57	Cedar Grove	Essex County	Pipe
27	IC-58	Cedar Grove	Essex County	Pipe
28	IC-62	Cedar Grove	Essex County	Pipe
29	IC-65	Cedar Grove	NJDOT	Pipe
30	IC-68	Cedar Grove	NJDOT	Pipe
31	IC-71	Cedar Grove	Essex County	Pipe
32	IC-72	Cedar Grove	Essex County	Pipe
33	IC-73	Cedar Grove	Essex County	Pipe
34	IC-75	Cedar Grove	Essex County	Pipe
35	IC-80	Cedar Grove	Little Falls	Pipe
36	IC-81	Cedar Grove	Little Falls	Pipe

10.2 Interconnection(s) into the permittee's MS4 from another entity

SCE utilized existing, mapped data obtained from the Township, existing stormwater infrastructure mapping, and supplemental information obtained from existing State and County roadway information in determining interconnections from other entities into Cedar Grove's system.

There are 19 total interconnections from other entity's discharging into the Township of Cedar Grove's MS4 stormwater collection system.

Table 10.2: Entities Discharging Into The Township Of Cedar Grove's MS4

Number	Interconnection ID	Upstream Entity	Downstream Entity	Interconnection Type
1	IC-30	NJDOT	Cedar Grove	Pipe
2	IC-33	NJDOT	Cedar Grove	Pipe
3	IC-35	NJDOT	Cedar Grove	Pipe
4	IC-42	NJDOT	Cedar Grove	Pipe
5	IC-43	Essex County	Cedar Grove	Pipe
6	IC-45	Essex County	Cedar Grove	Pipe
7	IC-46	Essex County	Cedar Grove	Pipe
8	IC-48	Essex County	Cedar Grove	Pipe
9	IC-59	Essex County	Cedar Grove	Pipe
10	IC-60	Essex County	Cedar Grove	Pipe
11	IC-61	Essex County	Cedar Grove	Pipe
12	IC-63	Essex County	Cedar Grove	Pipe
13	IC-66	Essex County	Cedar Grove	Pipe
14	IC-67	Essex County	Cedar Grove	Pipe
15	IC-69	Essex County	Cedar Grove	Pipe
16	IC-74	Essex County	Cedar Grove	Pipe
17	IC-77	Private	Cedar Grove	Pipe
18	IC-78	Private	Cedar Grove	Pipe
19	IC-79	Private	Cedar Grove	Pipe

- **See Appendix D for Entities Receiving Stormwater Flow From The Township Of Cedar Grove's MS4**
- **See Appendix E for Entities Discharging Into The Township Of Cedar Grove's MS4**

Electronic data required for submission: Interconnections

11.0 DRAINAGE AREAS FOR STORMWATER OUTFALLS AND INTERCONNECTIONS

This section should detail the following information for outfalls owned/operated by the permittee and interconnection(s) from the permittee's MS4 into another entity's system:

11.1 Storm Drain Inlets

The stormwater drain inlets were mapped utilizing existing GIS data and confirmed via field inspection by SCE between July 2025 and December 2025.

- There are a total of 1,067 inlets within Cedar Grove
- There were 23 Type A inlets collected resulting in 2 percent of storm inlets
- There were 1,006 Type B inlets collected resulting in 94 percent of storm inlets
- There were 14 Type E inlets collected resulting in 1 percent of storm inlets
- There were 24 Other inlets collected resulting in 2 percent of storm inlets

11.2 MS4 Outfall Drainage Areas

The MS4 Outfalls Drainage Areas that are owned or operated by Cedar Grove were manually delineated in AutoCAD utilizing LIDAR contours obtained from USGS.

11.3 Drainage Area Of Interconnections From The Permittee To Another Entity

The Drainage Areas of interconnections from Cedar Grove's MS4 System into another entity's system were manually delineated in AutoCAD utilizing LIDAR contours obtained from USGS.

Table 11.1: Outfall Drainage Areas

Number	Drainage Area ID	Drainage Area (SF)	Outfall	Primary Contributing Drainage Area Type
1	5	1,978,013	MS4 Outfall 005	Park or Open Space
2	7	6,283,824	MS4 Outfall 007	Residential
3	11	465,168	MS4 Outfall 011	Residential
4	18	1,482,184	MS4 Outfall 018	Residential
5	19	1,059,664	MS4 Outfall 019	Residential
6	23	2,184,953	MS4 Outfall 023	Residential
7	27	647,863	MS4 Outfall 027	Industrial
8	28	3,374,892	MS4 Outfall 028	Industrial
9	29	2,241,181	MS4 Outfall 029	Residential
10	30	639,480	MS4 Outfall 030	Residential
11	53	732,856	MS4 Outfall 053	Residential
12	54	1,067,557	MS4 Outfall 054	Residential
13	55	1,309,225	MS4 Outfall 055	Residential
14	64	1,767,941	MS4 Outfall 064	Residential
15	78	621,773	MS4 Outfall 078	Residential
16	79	1,397,079	MS4 Outfall 079	Residential
17	80	225,277	MS4 Outfall 080	Residential
18	81	910,959	MS4 Outfall 081	Residential
19	90	6,667,710	MS4 Outfall 090	Residential
20	91	4,642,438	MS4 Outfall 091	Residential
21	94	103,794	MS4 Outfall 094	Residential
22	95	246,278	MS4 Outfall 095	Residential
23	96	108,028	MS4 Outfall 096	Residential
24	97	403,216	MS4 Outfall 097	Commercial

Table 11.2: Drainage Areas For Interconnections Receiving Stormwater Flow From The Township Of Cedar Grove's MS4

Number	Drainage Area ID	Drainage Area (SF)	Interconnection	Primary Contributing Drainage Area Type
1	14	1,180,022	MS4 Interconnections 014	Residential
2	15	1,041,835	MS4 Interconnections 015	Residential
3	16	516,923	MS4 Interconnections 016	Residential
4	18	355,385	MS4 Interconnections 018	Residential
5	26	1,322,187	MS4 Interconnections 026	Residential
6	27	608,982	MS4 Interconnections 027	Residential
7	28	2,070,798	MS4 Interconnections 028	Residential
8	29	296,245	MS4 Interconnections 029	Commercial
9	31	514,362	MS4 Interconnections 031	Residential
10	34	773,464	MS4 Interconnections 034	Residential
11	36	459,562	MS4 Interconnections 036	Residential
12	37	3,859	MS4 Interconnections 037	Residential
13	38	697,076	MS4 Interconnections 038	Residential
14	40	234,602	MS4 Interconnections 040	Residential
15	41	170,786	MS4 Interconnections 041	Residential
16	44	373,473	MS4 Interconnections 044	Residential
17	47	367,294	MS4 Interconnections 047	Residential
18	49	2,309,306	MS4 Interconnections 049	Residential
19	50	635,201	MS4 Interconnections 050	Residential
20	51	1,040,824	MS4 Interconnections 051	Residential
21	52	1,215,521	MS4 Interconnections 052	Residential
22	53	279,944	MS4 Interconnections 053	Residential
23	54	125,116	MS4 Interconnections 054	Residential
24	55	406,909	MS4 Interconnections 055	Residential
25	56	1,766,069	MS4 Interconnections 056	Commercial
26	57	2,516,197	MS4 Interconnections 057	Residential
27	58	186,072	MS4 Interconnections 058	Residential
28	62	423,303	MS4 Interconnections 062	Residential
29	65	1,869,306	MS4 Interconnections 065	Residential
30	68	648,557	MS4 Interconnections 068	Residential
31	71	1,412,110	MS4 Interconnections 071	Commercial
32	72	211,977	MS4 Interconnections 072	Commercial
33	73	2,054,641	MS4 Interconnections 073	Residential
34	75	270,842	MS4 Interconnections 075	Residential
35	80	301,247	MS4 Interconnections 080	Residential
36	81	173,019	MS4 Interconnections 081	Residential

- **See Appendix F for Storm Drain Inlets Owned/Operated by Permittee.**
- **See Appendix G for Township of Cedar Grove Outfall Drainage Area Map.**
- **See Appendix H for Interconnection Drainage Area Map for Entities Receiving Stormwater Flow from The Township of Cedar Grove's MS4.**
- **Electronic data required for submission: Stormwater Outfall and Interconnection Drainage Area(s)**

12.0 TMDLS AND WATER QUALITY IMPAIRMENTS

This section should detail the following information for each TMDL and water quality impairment that lies within or bordering the permittee's jurisdiction:

The TMDLs and Water Quality Impairment data was obtained using the New Jersey Watershed Evaluation Tool (NJWET), dated October 1, 2025.

The HUC 14s that lie within or bordering the Township of Cedar Grove's jurisdiction include:

- HUC14 02030103120110
  - TMDL: Streamsheds Pre-2008
    - Fecal Coliform
  - Water Quality Impairments: **Passaic R Lwr (Goffle Bk to Pompton R)**
    - Dissolved Oxygen
    - PCBs in Fish Tissue
    - PH
- HUC14 02030103120020
  - TMDL: Streamsheds
    - Total Phosphorus
  - TMDL: Streamsheds Pre-2003
    - Fecal Coliform
  - Water Quality Impairments: **Peckman River (below CG Res trib)**
    - PCBS In Fish Tissue
- HUC14 02030103120060
  - TMDL: Streamsheds Pre-2008
    - Total Phosphorus
    - Fecal Coliform
  - Water Quality Impairments: **Deepavaal Brook**
    - None
- HUC14 02030103010180
  - TMDL: Streamsheds
    - Total Phosphorus
  - Water Quality Impairments: **Passaic R Upr (Pike Bk br to Rockaway)**
    - PCB's In Fish Tissue
    - Total Dissolved Solids (Tds)
- HUC14 02030103120010
  - TMDL: Streamsheds 2008
    - Total Phosphorus
  - TMDL: Streamsheds Pre-2008

- Fecal Coliform
- Water Quality Impairments: **Peckman River (above CG Res trib)**
  - None

▪ HUC14 02030103150020

- TMDL: Streamsheds Pre-2003
- Water Quality Impairments: **Second River**
  - ESCHERICHIA COLI (E. COLI)
  - PH
  - PHOSPHORUS, TOTAL

▪ HUC14 02030103150010

- TMDL: Streamsheds
  - None
- TMDL: Streamsheds Pre-2008
  - None
- Water Quality Impairments: **Third River**
  - Escherichia Coli (E. Coli)
  - PCBs In Fish Tissue
  - Phosphorus, Total

- *Using the Pollutants of Concern document, summarize the environmental impacts of each parameter identified for each TMDL and impairment all each sub watershed*
  - *Environmental Impacts of Each Parameter*
    - Polychlorinated Biphenyls (PCBs)
      - PCBs can accumulate in the leaves and above-ground parts of plants and food crops. They are also taken up into the bodies of small organisms and fish. As a result, people who ingest fish may be exposed to PCBs that have bioaccumulated in the fish they are ingesting. Their oily nature allows them to accumulate in fatty animal tissues and bioaccumulate up the global food chain where they contribute to organ damage and carcinogenesis in higher-tiered species. PCBs are easily carried away as TSS by stormwater runoff from products containing the compounds which are exposed to stormwater and known and unknown contaminated areas. PCBs have a moderate level of volatility, which means that their vapors are also readily carried aloft by the wind. They are then deposited on exposed surfaces via air deposition.
      - MS4 permit conditions that regulate this parameter:
        - Improper Disposal of Waste Ordinance
        - Yard Waste Ordinance
        - Roadside Vegetative Waste Management
        - Inspection and Maintenance of Stormwater Facilities
        - BMPs at Municipal Maintenance Yards
        - Illicit Discharge Detection and Elimination Program

- Volatile Organic Compound (VOCs)
  - While many VOCs can cause adverse effects on aquatic life, there are also several adverse human health risks associated with encountering VOCs, including worsening asthma symptoms, cancer, liver and kidney damage, and central nervous system damage. Stormwater can come in contact with VOCs from vehicle surfaces, roads, parking lots, driveways, and litter or other wastes. Once these improperly disposed materials containing VOCs encounter stormwater runoff they are discharged to the surface and ground waters of the state which are in turn used for drinking water supplies and the protection and propagation of aquatic life. Surface water quality criteria serve to protect water quality for designated uses such as supporting the survival, growth, and reproduction of aquatic life, protecting the quality of drinking water sources, maintaining good water quality for primary and secondary contact recreational uses, and keeping fish safe for human consumption.
  - MS4 permit conditions that regulate this parameter:
    - Litter Control Ordinance
    - Improper Disposal of Waste Ordinance
    - Street Sweeping Program
    - Herbicide Application Management
    - Inspection and Maintenance of Stormwater Facilities
    - BMPs at Municipal Maintenance Yards
    - Illicit Discharge Detection and Elimination Program
- Total Phosphorous
  - An excess of phosphorus into a water body can have a detrimental effect on designated uses related to both public health and aquatic health. For instance, too much phosphorus in a surface water can cause increased growth of algae and large aquatic plants (a process called eutrophication) causing significant swings in pH and dissolved oxygen, which can in turn result in the violation of surface water quality criteria for these parameters and adversely affect the aquatic community. Additionally, high levels of phosphorus can also lead to HABs, that produce toxins which can be harmful to human and animal health. The presence of excessive plant biomass can also interfere with other designated uses, such as swimming or boating. When algae are present in large amounts, drinking water purveyors must also increase the use of disinfectants and oxidants to treat the algae, which can lead to an increase in disinfection byproducts such as trihalomethanes, listed as likely carcinogens by EPA.
  - MS4 permit conditions that regulate this parameter:
    - Pet Waste Ordinance
    - Wildlife Feeding Ordinance
    - Litter Control Ordinance
    - Improper Disposal of Waste Ordinance
    - Yard Waste Ordinance
    - Street Sweeping Program
    - Herbicide Application Management

- Roadside Vegetative Waste Management
- Roadside Erosion Control
- Inspection and Maintenance of Stormwater Facilities
- Stream Scouring Program
- Illicit Discharge Detection and Elimination Program

- Pathogens (Enterococcus, E. Coli, Fecal Coliform, Total Coliform)
  - While sewage treatment plants contribute a steady input of treated sewage to their receiving waters, stormwater runoff is the primary contributor to pathogen loads in the surface waters of the state. Many of these pathogens affect the designated uses of the receiving waters and are harmful to human or animal health when ingested causing intestinal disease. Pathogens can attack the immune system and cause infections that may result in abdominal issues, respiratory problems, fever, headache, skin rashes, etc. (Water Quality Topics: Pathogens | US EPA). When receiving surface waters include shellfish harvesting as a designated use, pathogens also pose additional concerns. Proximity to potential sources such as marinas, development served by septic systems and concentrated stormwater outfall locations warrant precautionary closures of shellfish waters on a seasonal or full-time basis. The National Shellfish Sanitation Program has established criteria for pathogens that are used to determine support of the shell fishing use.
  - MS4 permit conditions that regulate this parameter:
    - Pet Waste Ordinance • Wildlife Feeding Ordinance
    - Litter Control Ordinance
    - Improper Disposal of Waste Ordinance
    - Yard Waste Ordinance
    - Street Sweeping Program
    - Herbicide Application Management
    - Roadside Vegetative Waste Management
    - Roadside Erosion Control
    - Inspection and Maintenance of Stormwater Facilities
    - Stream Scouring Program
    - Illicit Discharge Detection and Elimination Program

Table 12.1: TMDLs and Impairments for Subwatersheds within or bordering the Township of Cedar Grove

HUC 14	Subwatershed Name	TMDL(s)	Impairment(s)
02030103120020	Peckman River (below CG Res trib)	Streamsheds: Total Phosphorus	PCBs In Fish Tissue
02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	Streamsheds: Total Phosphorus Fecal Coliform	Dissolved Oxygen PCBs In Fish Tissue Ph
02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	Streamsheds: Total Phosphorus	PCBs In Fish Tissue Total Dissolved Solids (TDS)
02030103150010	Third River	*None*	Escherichia Coli (E. Coli) PCBs In Fish Tissue Phosphorus, Total
02030103150020	Second River	*None*	Escherichia Coli (E. Coli) Ph Phosphorus, Total
02030103120060	Deepavaal Brook	Streamsheds Pre-2008: Fecal Coliform Total Phosphorus	*None*
02030103120010	Peckman River (above CG Res Trib)	Streamsheds Pre-2008: Fecal Coliform Total Phosphorus	*None*

Source: NJ-WET October 2, 2025.

- **See Appendix I for Township of Cedar Grove TMDLs Map.**
- **See Appendix J for Township of Cedar Grove Water Quality Impairments Map.**

Electronic data required for submission: None required for this section.

13.0 OVERBURDENED COMMUNITIES

There are zero (0) subwatersheds within the permittee's jurisdiction that have overburdened communities. The Overburdened Communities data was obtained using the New Jersey Watershed Evaluation Tool (NJWET), dated September 22, 2025.

Clean surface water is crucial in overburdened communities because it leads to better health, nutrition, and mental well-being, and contributes to economic development. Additionally, it lowers the risk of spreading disease through water-borne illnesses. Streams and wetlands also provide benefits from clean surface water by trapping floodwaters, recharging groundwater supplies, filtering pollution, and providing habitat for fish and wildlife.

- **See Appendix K for Township of Cedar Grove Overburdened Communities Map.**

Electronic data required for submission: None required for this section.

14.0 IMPERVIOUS AREA

The impervious area data was obtained using the New Jersey Watershed Evaluation Tool (NJWET), dated September 15, 2025.

The percentage of impervious cover in each of Cedar Grove's subwatersheds is listed below:

- **Second River**
  - Impervious Area 0.03%
  - Total Area (ac) 9,315.1
  - Pervious Area (ac) 9,312.7
  - Impervious Area (ac) 2.4
- **Passaic R Upr (Pine Bk br to Rockaway)**
  - Impervious Area 0.01%
  - Total Area (ac) 3,417.4
  - Pervious Area (ac) 3,417.2
  - Impervious Area (ac) 0.2
- **Peckman River (Above CG Res trib)**
  - Impervious Area 5.31%
  - Total Area (ac) 3,217.2
  - Pervious Area (ac) 3,046.5
  - Impervious Area (ac) 170.7
- **Peckman River (Below CG Res trib)**
  - Impervious Area 17.43%
  - Total Area (ac) 3,253.3
  - Pervious Area (ac) 2,686.4
  - Impervious Area (ac) 567.0
- **Entire Township**
  - Impervious Area 2.08%
  - Total Area (ac) 39,696.9
  - Pervious Area (ac) 38,871.6
  - Impervious Area (ac) 825.3
- **Third River**
  - Impervious Area 0.02%
  - Total Area (ac) 8,020.0
  - Pervious Area (ac) 8,018.2
  - Impervious Area (ac) 1.8
- **Deepavaal Brook**
  - Impervious Area 0.55%
  - Total Area (ac) 4,867.7
  - Pervious Area (ac) 4,841.0
  - Impervious Area (ac) 26.6
- **Passaic R Lwr (Pump Stn to Pompton R)**
  - Impervious Area 2.36%
  - Total Area (ac) 2,383.6
  - Pervious Area (ac) 2,327.4
  - Impervious Area (ac) 56.2
- **Passaic R Lwr (Goffle Bk to Pump Stn)**
  - Impervious Area 0.01%
  - Total Area (ac) 5,222.6
  - Pervious Area (ac) 5,222.1
  - Impervious Area (ac) 0.4

Impervious cover can have many impacts on ecosystems and stream health. Impervious surfaces do not absorb any water which causes significant runoff in certain areas. This runoff can collect pollutants and toxins as it makes its way into a nearby water source. This can lead to certain species of bugs and fish leaving the area if developed too quickly especially if they are sensitive to water quality changes and/or flow regime. In result, the ecosystem can become unbalanced due to a lack of biodiversity and can negatively impact the surrounding ecosystem.

- **See Appendix L for Township of Cedar Grove Impervious Surfaces Map.**

Electronic data required for submission: None required for this section.

15.0 NON-MUNICIPALLY OWNED OR OPERATED STORMWATER FACILITIES

This section will require Tier A permittees to detail the information below for non-municipally owned or operated structural stormwater management measures as follows:

- *Bioretention Systems (large-scale)*
- *Blue Roofs*
- *Cisterns*
- *Dry Wells*
- *Extended Detention Basins*
- *Grass Swales*
- *Green Roofs*
- *Infiltration Basins (large-scale)*
- *Manufactured Treatment Devices (MTDs)*
- *Pervious Paving Systems*
- *Sand Filters (large-scale)*
- *Small-scale Bioretention Systems*
- *Small-scale Infiltration Basins*
- *Small-scale Sand Filters*
- *Standard Constructed Wetlands*
- *Stormwater Outfalls*
- *Subsurface Gravel Wetlands*
- *Vegetative Filter Strips*
- *Wet Ponds*

**Permittees may exclude acquiring information for the following non-municipally owned or operated stormwater infrastructure: storm drain inlets, catch basins, and conveyance.*

The information below was obtained through review of approved planning and/or zoning applications and zoning permits.

Table 15.1: Non-Municipally Owned or Operated Stormwater Facilities

Local ID	Type	Owner	Subwatershed
01	Underground Detention Basin #1 Underground Detention Basin #2 Underground Detention Basin #3 Aqua- Filter AF-4.3 (WTO#1) Aqua-Filter AF-4.3 (WTU#2)	St. Mark Archdiocese 5 Woodstone Drive Block 40 Lot 400	Peckman River (below CG Res trib)
02	Pervious Pavement System (PP #1) Pervious Pavement System (PP #2) Pervious Pavement System (PP #3) Bioretention Basin System (BB #1)	David's Cookies 11 Cliffside Drive Block 280 Lot 310	Peckman River (below CG Res trib)
03	Grass Swale Marsh Botton Basin	Courtland Properties Dogwood Court Block 340 Lots 17.06, 17.07, 17.08, 17.09, 17.10	Passaic R Lwr (pump stn to Pompton R)
04	Detention Basin	Eileen Drive Block 181, Lots 22 & 30	Deepavaal Brook
05	Wet Basin #1 Wet Basin #2 Wet Basin #3 Wet Basin #4	Hilltop at Cedar Grove Block 70 Lot 1	Peckman River (above CG Res trib)
06	Detention Basin	Cedar Crest Homeowners Association Lafayette Drive & Emory Court Block 40 Lot 22	Peckman River (below CG Res trib)
07	Detention Basin	The Learning Center 1090 Pompton Avenue Block 320 Lot 71	Peckman River (below CG Res trib)

08	Basin	Evergreen Place Block 200 Lot 46	Peckman River (below CG Res trib)
09	Pervious Pavement	1201 Pompton Avenue (Under Construction) Block 330 Lot 16	Passaic R Lwr (pump stn to Pompton R)
10	Detention Basin	396 Fairview Avenue (Under Construction) Block 180 Lots 1, 89, 81	Peckman River (below CG Res trib)
11	Stormwater System, Underground Basins	36 Cliffside Drive (Under Construction) Block 280 Lots 320, 330, 247	Peckman River (below CG Res trib)
12	Basin	1026 Pompton Avenue Block 310 Lot 302	Peckman River (below CG Res trib)
13	Basin	Four Seasons at Cedar Grove Block 300 Lot 11	Peckman River (below CG Res trib)
14	Drywell	353 Crestmont Road Block 132 Lot 377	Peckman River (below CG Res trib)
15	Drywell	16 Tiffany Court Block 146 Lot 5	Second River
16	Drywell	109 Cedar Grove Parkway Block 190 Lot 85	Peckman River (below CG Res trib)
17	Underground Stormwater System	Cedar Grove High School Turf Field Block 150 Lot 51	Peckman River (below CG Res trib)
18	Drywells	1186 Pompton Avenue Block 320 Lot 84	Peckman River (below CG Res trib)
19	Drywell	48 Carlson Parkway Block 330 Lot 2	Peckman River (below CG Res trib)
20	Rain Barrels	276 Bowden Road Block 211 Lot 8	Passaic River Lower (Saddle to Pompton)
21	Drywell	151 Little Falls Road Block 212 Lot 9	Peckman River (below CG Res trib)
22	Detention Basin	38 Woodmere Road Block 90 Lot 280	Peckman River (below CG Res trib)
23	Drywell	10, 12 & 16 Ozone Avenue Block 65 Lot 24	Peckman River (above CG Res trib)
24	Basin	445 Little Falls Road Block 371 Lot 51	Peckman River (below CG Res trib)

- **See Appendix M for Non-municipally Owned/Operated Stormwater Infrastructure in the Township of Cedar Grove**

Electronic data required for submission: Non-municipally Owned/Operated Stormwater Infrastructure

16.0 CONCLUSION

The Watershed Inventory Report, Phase 1 of the Watershed Improvement Plan, identifies stormwater infrastructure, as required in the MS4 permits. It also summarizes water quality data, including stream classifications, TMDLs, and water quality impairments. The data that accompanies this inventory report has been compiled as an electronic map and submitted to the NJDEP through NJDEP Online via the Document Submittal Service. The information from this inventory report will be used to make informed decisions during the creation of the Watershed Assessment Report, Phase 2 of the Watershed Improvement Plan. The work done in Phase 2 will identify areas of potential concern and where potential water quality improvement projects may be implemented to address the highlighted water quality and quantity issues identified in this inventory report.

17.0 REFERENCES

Data Sources

2020 Census of Population and Housing. Retrieved on November 26, 2025 from U.S. Department of Commerce, U.S. Census Bureau website: https://data.census.gov/.

New Jersey 2022 Integrated Water Quality Report, including the 303(d) Impaired Waters List. Retrieved November 26, 2025

November 26, 2025 from New Jersey Department of Environmental Protection, Bureau of Bureau of Environmental Analysis, Restoration and Standards website: https://dep.nj.gov/wms/bears/integrated-wq-assessmentreport-2022/.

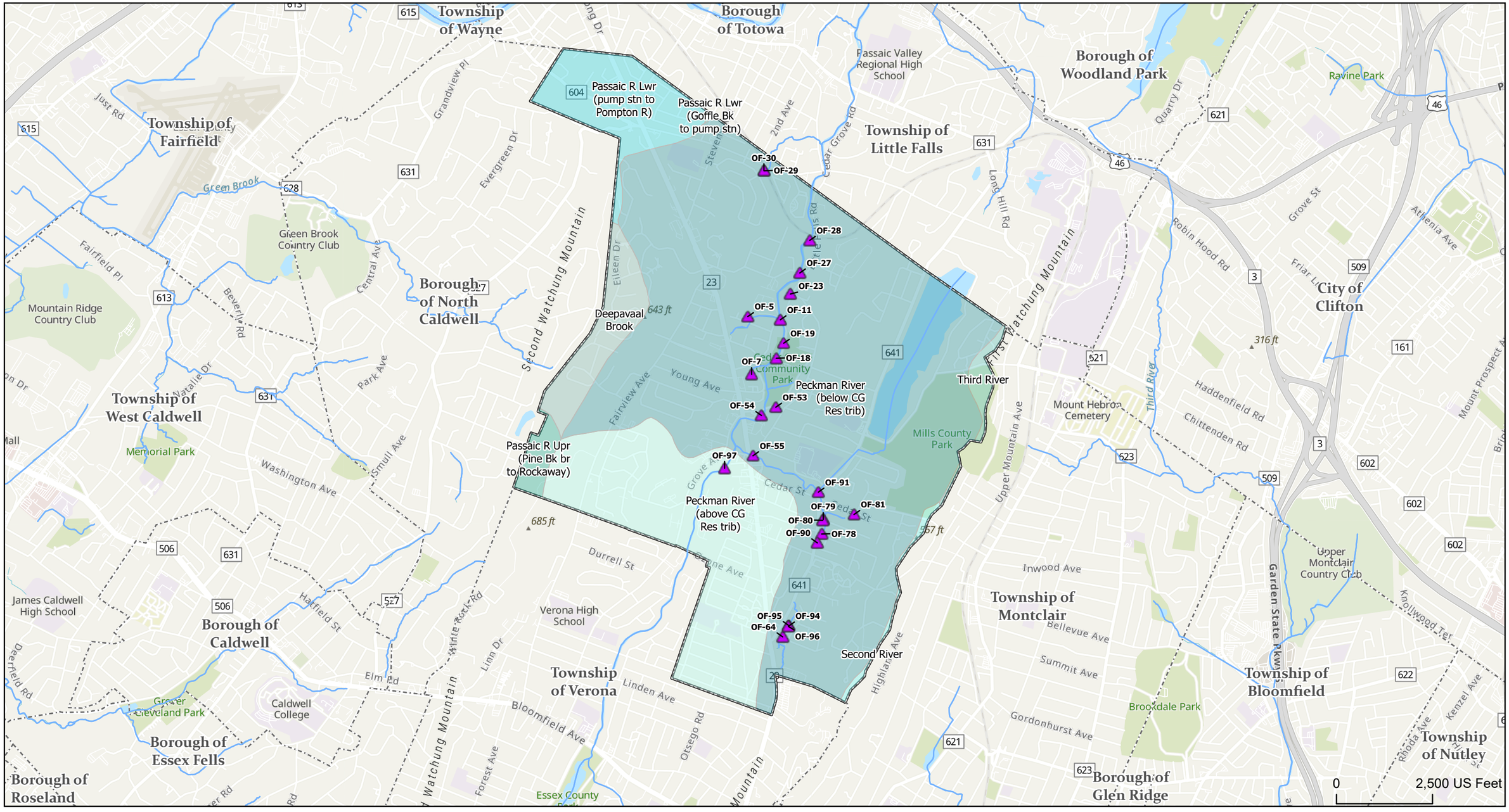
New Jersey Watershed Evaluation Tool (NJ-WET). Retrieved on September 22, 2025; October 2, 2025 from Division of Watershed and Land Management, Bureau of NJPDES Stormwater Permitting & Water Quality Management website: https://dep.nj.gov/njpdes-stormwater/municipal-stormwater-regulation-program/watershed-improvementplan-guidance/.

NJDEP Open Data. Retrieved on November 26, 2025 from Division of Information Technology, NJDEP Bureau of GIS website: https://gisdata-njdep.opendata.arcgis.com/.

Total Maximum Daily Load (TMDL) Look-Up Tool. Retrieved on October 1, 2025, Year from New Jersey Department of Environmental Protection, Bureau of NJPDES Stormwater Permitting and Water Quality Management website: https://dep.nj.gov/njpdes-stormwater/municipal-stormwater-regulation-program/tmdl/.

Appendix A

STORMWATER OUTFALLS OWNED AND OPERATED BY PERMITTEE



Pipe Outfall
Streams
Cedar Grove Township Boundary
Neighboring Municipalities

Hydrologic Units Within Township

- Deepavaal Brook
- Passaic R Lwr (Goffle Bk to pump stn)
- Passaic R Lwr (pump stn to Pompton R)
- Passaic R Upr (Pine Bk br to Rockaway)
- Peckman River (above CG Res trib)
- Peckman River (below CG Res trib)
- Second River
- Third River

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12/17/2025
CHECKED BY:
AAP
DATE:
12/17/2025

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21MH00004200

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- Landscape Architects -
- Planners - Environmentalists - Land Surveyors -

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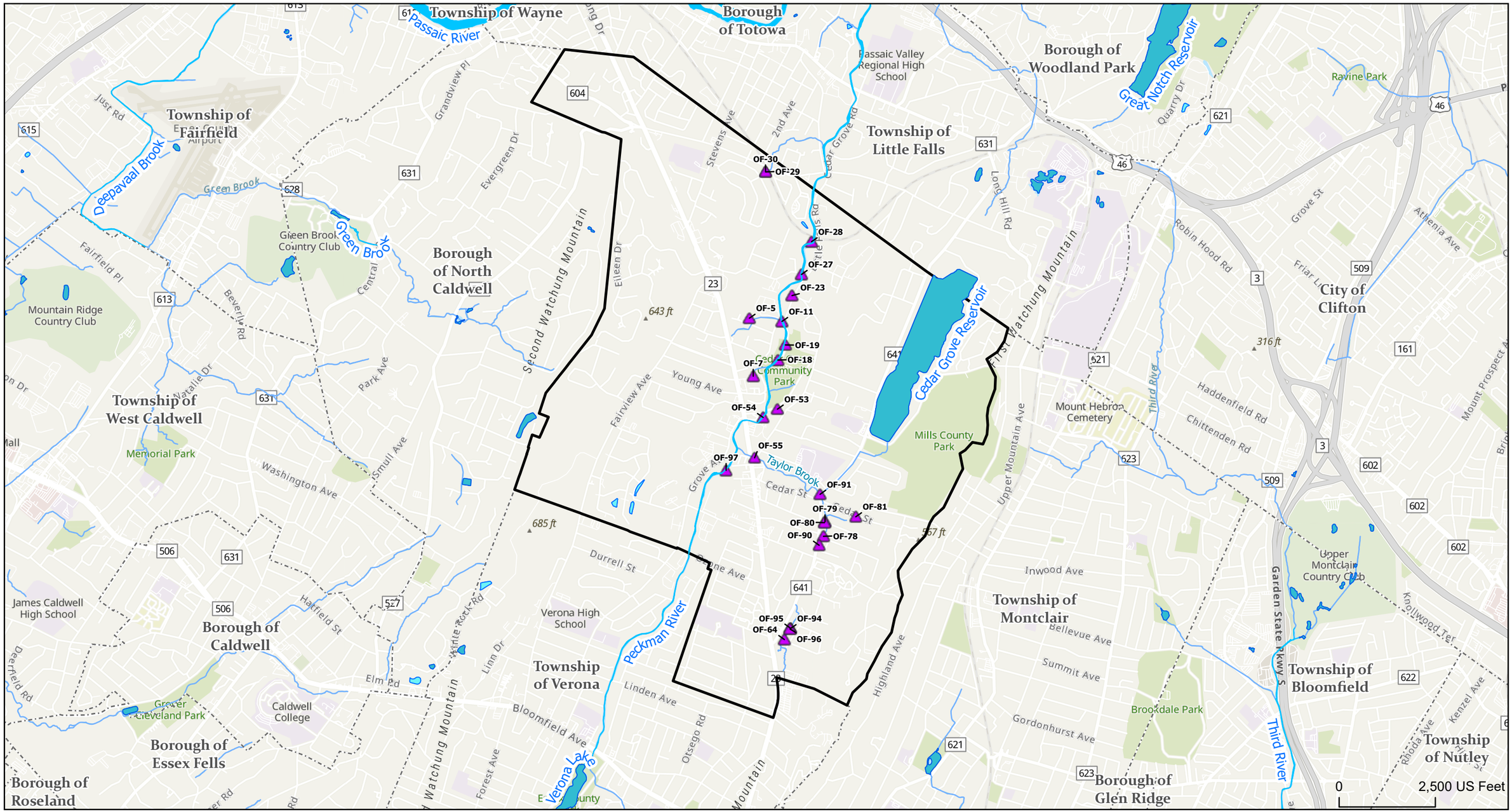
Cedar Grove Township, New Jersey
Watershed Inventory Report

Stormwater Outfalls Owned/Operated by Permittee

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	___ of ___	1	R14572.011

Appendix B

THE RECEIVEING WATERBODIES OF OUTFALLS



MS4 Outfall
Streams
Waterbody
Lake/Pond
Reservoir
Stream/River
Cedar Grove Township Boundary
Neighboring Municipalities

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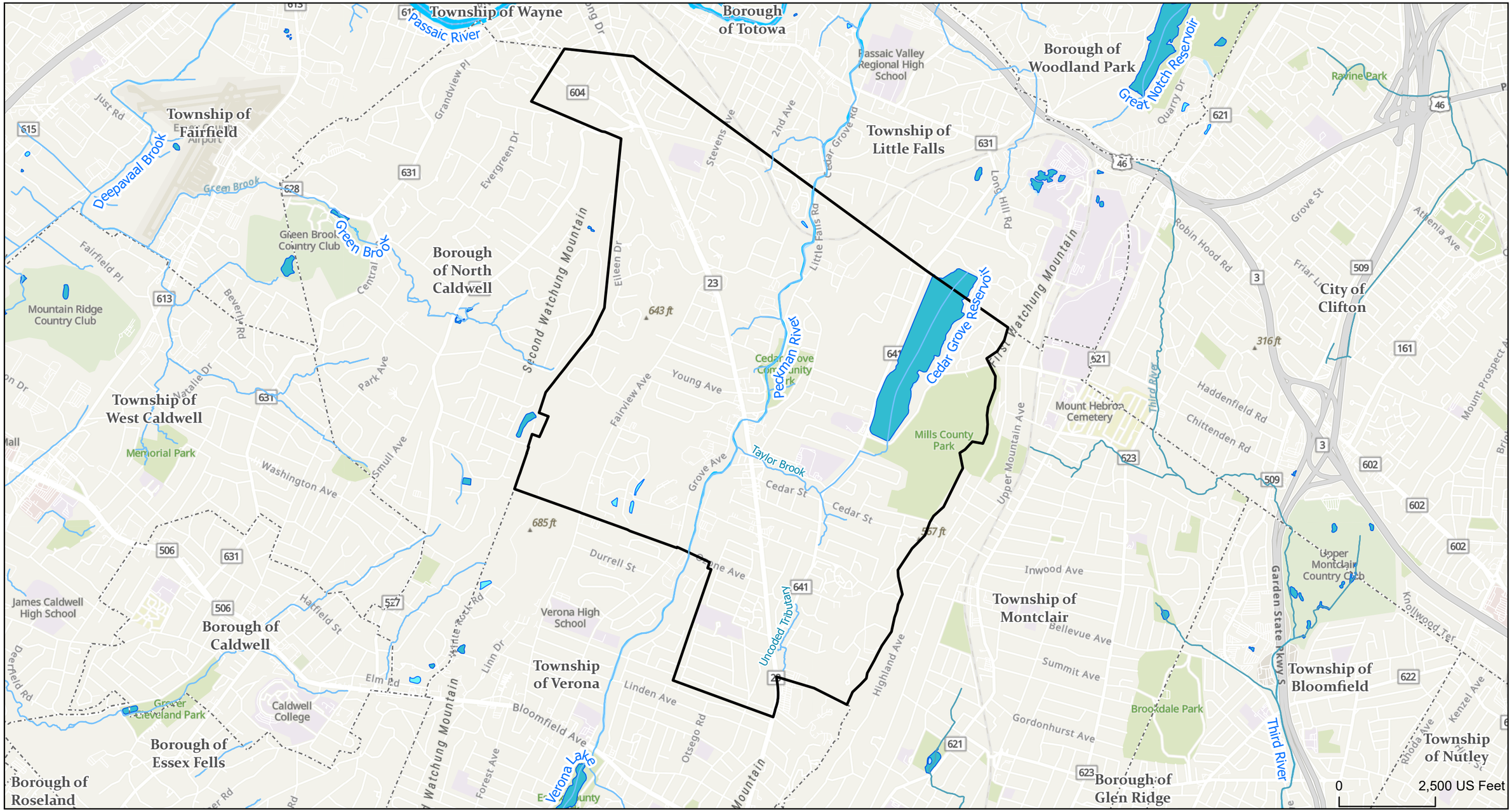
Cedar Grove Township, New Jersey
Watershed Inventory Report

The Receiving Waterbodies of Outfalls

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	___ of ___	1	R14572.011

Appendix C

WATER QUALITY CLASSIFICATION OF ALL RECEIVING WATERBODY SEGMENTS



Surface Water Quality Classifications
- FW2-NT
- FW2-NT/SE2

Waterbody
- Lake/Pond
- Reservoir
- Stream/River

- Cedar Grove Township Boundary
- Neighboring Municipalities

N W E S

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Cedar Grove Township, New Jersey
Watershed Inventory Report

Water Quality Classification of All Receiving Waterbody Segments

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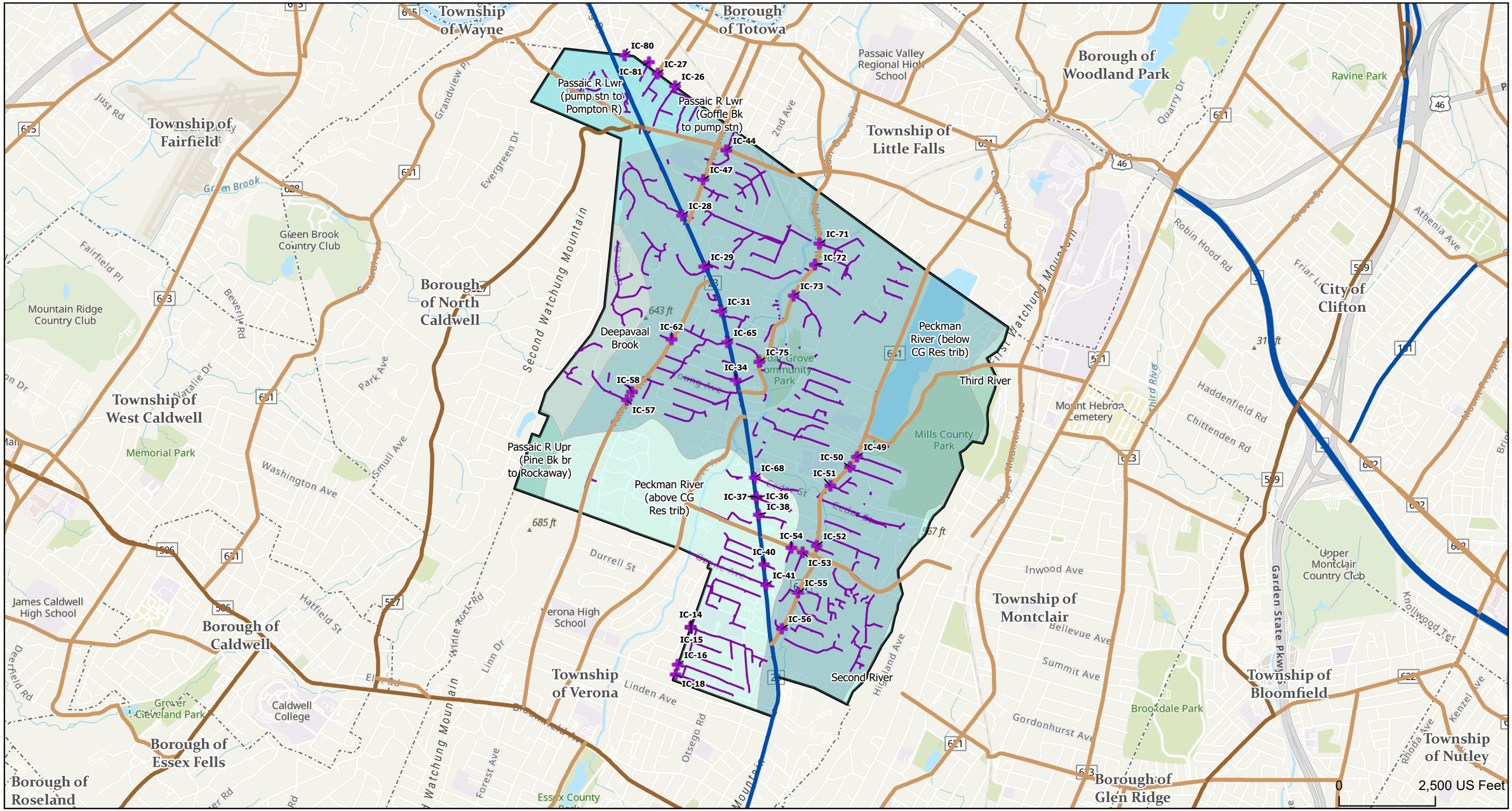
1" = 2,500'	___ of ___	1	R14572.011

Appendix D

ALL STORMWATER INTERCONNECTIONS FROM MUNICIPALITY TO OTHER ENTITIES STORM OR SANITARY



MS4 Interconnection

MS4 Conveyance

Cedar Grove Roads

- State Highway
- County 500 Route
- Other County Route

Hydrologic Units Within Township

- Deepavaal Brook
- Passaic R Lwr (Goffle Bk to pump stn)
- Passaic R Lwr (pump stn to Pompton R)
- Passaic R Upr (Pine Bk br to Rockaway)
- Peckman River (above CG Res trib)
- Peckman River (below CG Res trib)
- Second River
- Third River
- Cedar Grove Township Boundary
- Neighboring Municipalities

N W E S

Note: There are no known interconnections between the Storm and Sanitary Systems within Cedar Grove.

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DATE:	12/18/2025

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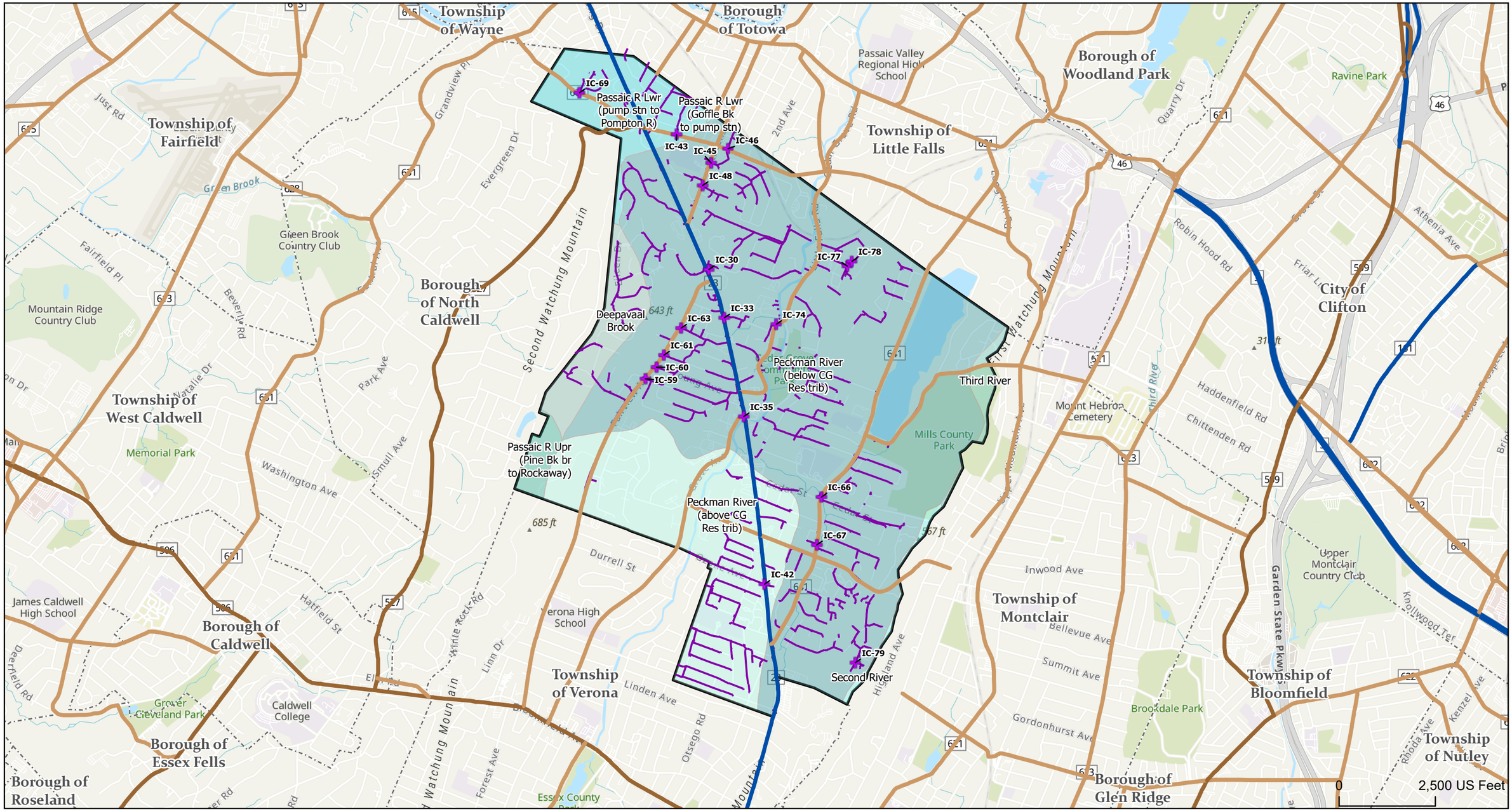
Cedar Grove Township, New Jersey
Watershed Inventory Report

All Stormwater Interconnections From Municipality to Other Entities' Storm or Sanitary

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	___ of ___	1	R14572.011

Appendix E

STORMWATER CONNECTION POINTS TO MUNICIPALITY FROM OTHER ENTITIES STORM SEWER



MS4 Interconnection
MS4 Conveyance

Cedar Grove Roads
- State Highway
- County 500 Route
- Other County Route

Hydrologic Units Within Township
- Deepavaal Brook
- Passaic R Lwr (Goffle Bk to pump stn)
- Passaic R Lwr (pump stn to Pompton R)
- Passaic R Upr (Pine Bk br to Rockaway)
- Peckman River (above CG Res trib)
- Peckman River (below CG Res trib)
- Second River
- Third River

Neighboring Municipalities

Cedar Grove Township Boundary

N W E S

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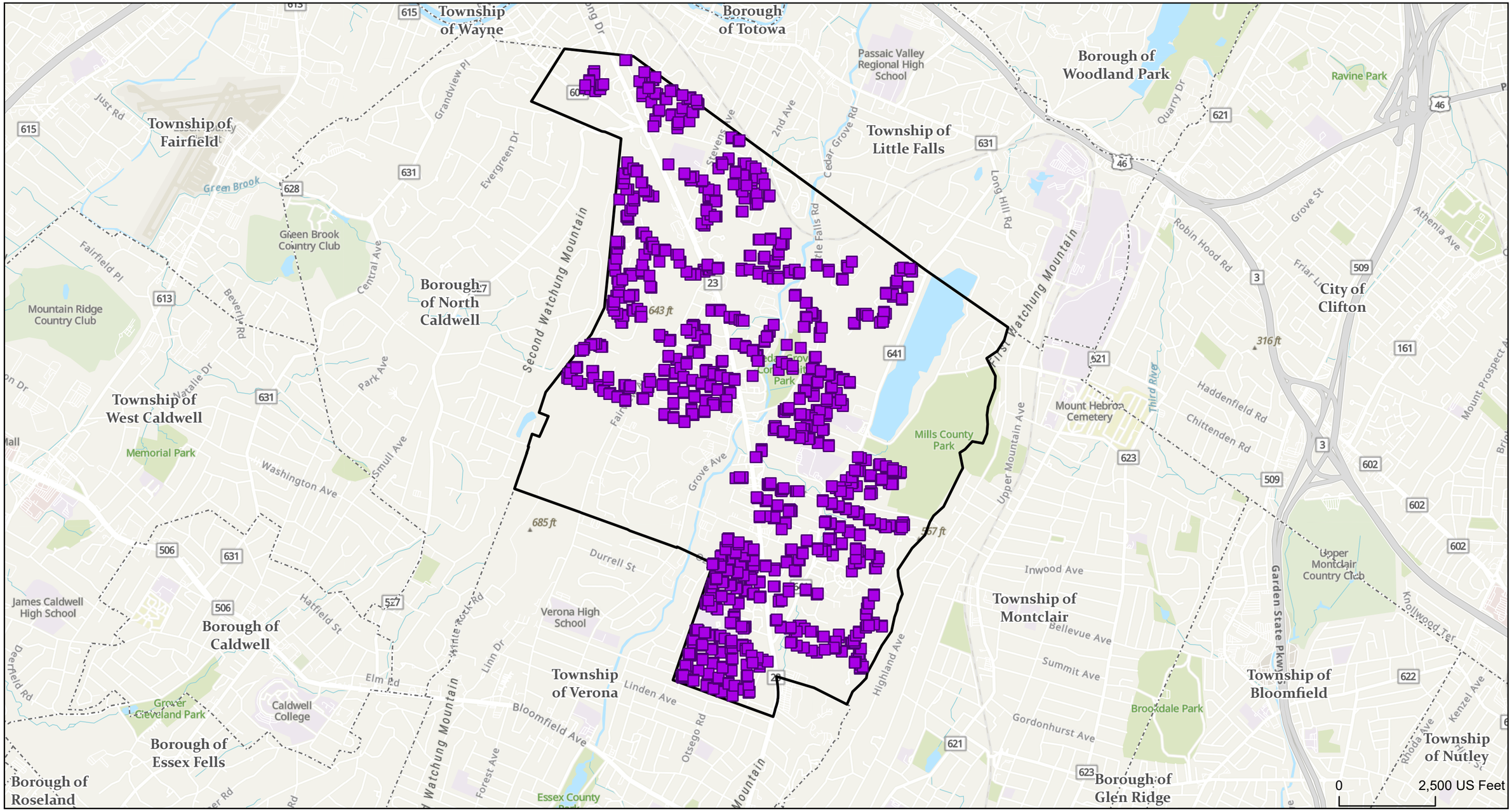
Watershed Inventory Report

Stormwater Connection Points to Municipality From Other Entities' Storm Sewer

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	____ of ____	1	R14572.011

Appendix F

STORM DRAIN INLETS OWNED AND OPERATED BY PERMITTEE



MS4 Inlet
Cedar Grove Township Boundary
Neighboring Municipalities

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AAP
DATE:
12/10/2025

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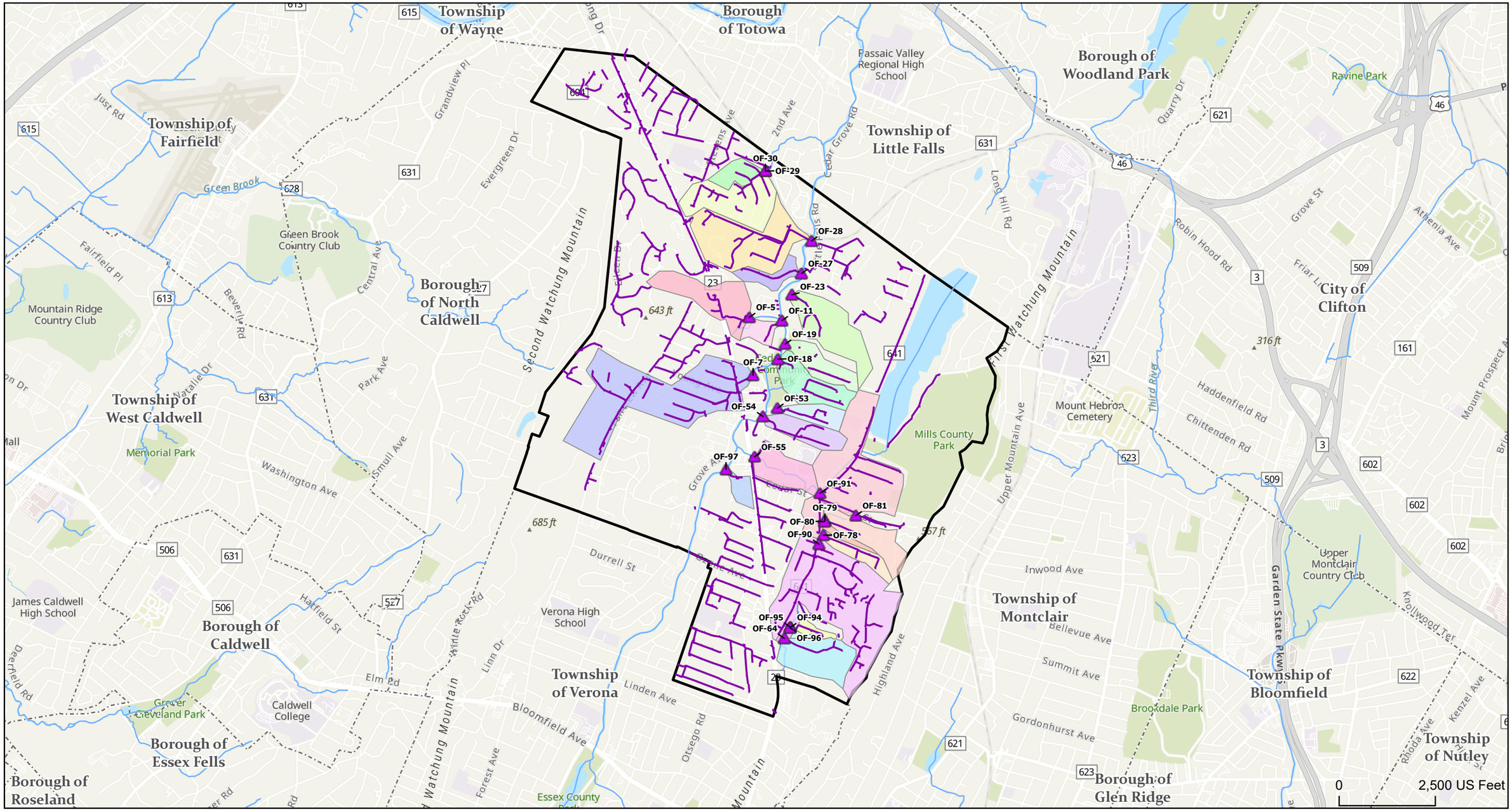
Watershed Inventory Report

Storm Drain Inlets Owned/Operated by Permittee

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	___ of ___	1	R14572.011

Appendix G

DRAINAGE AREA FOR EACH OUTFALL



Pipe Outfall
MS4 Conveyance
Streams
Cedar Grove Township Boundary
Neighboring Municipalities

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AAP
DATE:
12/18/2025

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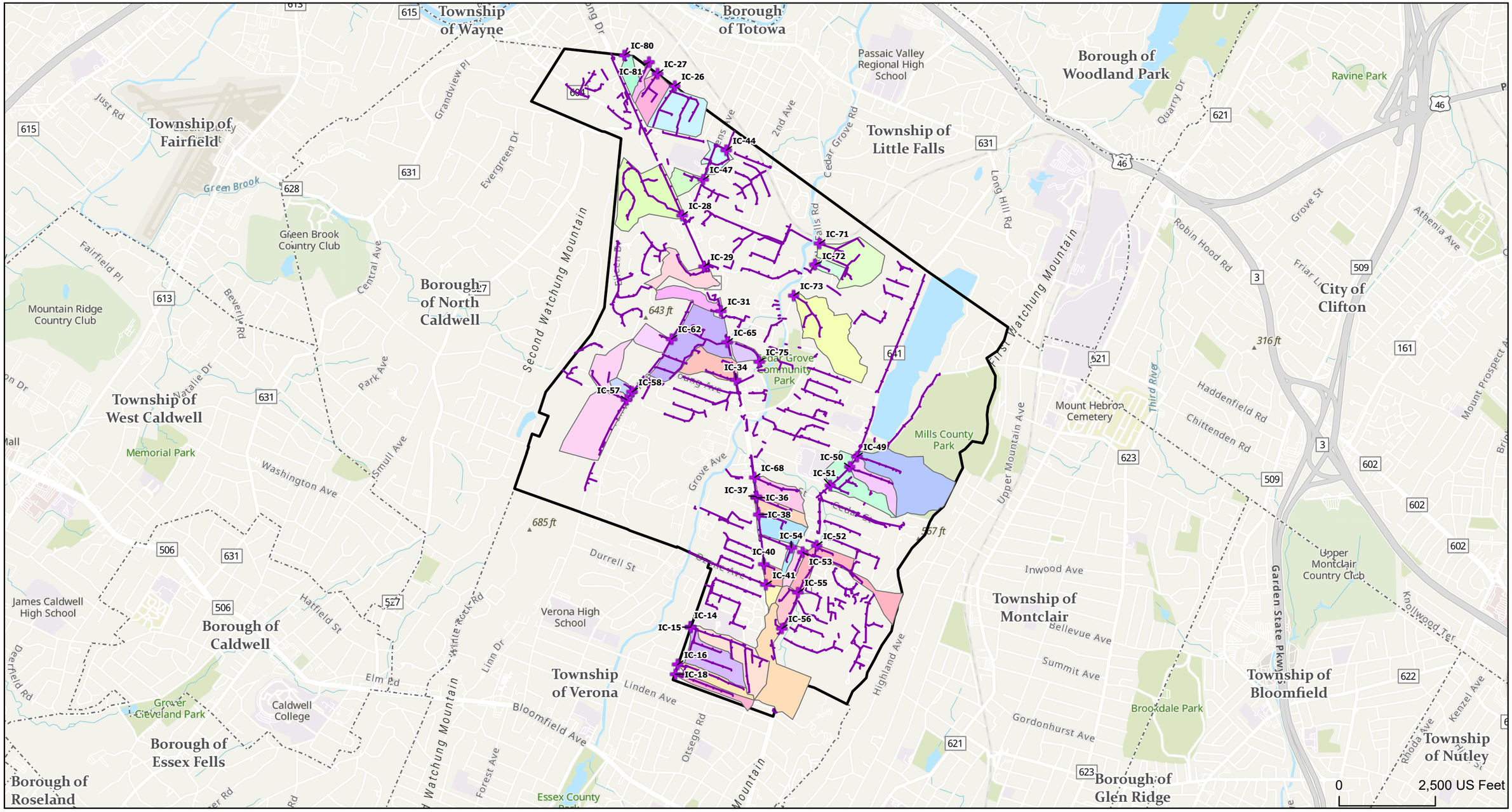
Cedar Grove Township, New Jersey
Watershed Inventory Report

Drainage Area for Each Outfall(s)

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	____ of ____	1	R14572.011

Appendix H

DRAINAGE AREA FOR EACH INTERCONNECTION INTO ANOTHER ENTITIES STORM OR SANITARY



MS4 Interconnection
MS4 Conveyance
Cedar Grove Township Boundary
Neighboring Municipalities

N
W E
S

Note: There are no known interconnections between the Storm and Sanitary Systems within Cedar Grove.

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APC
DATE:
12/18/2025
CHECKED BY:
AAP
DATE:
12/18/2025

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21MH00004200
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- Landscape Architects -
- Planners - Environmentalists - Land Surveyors -
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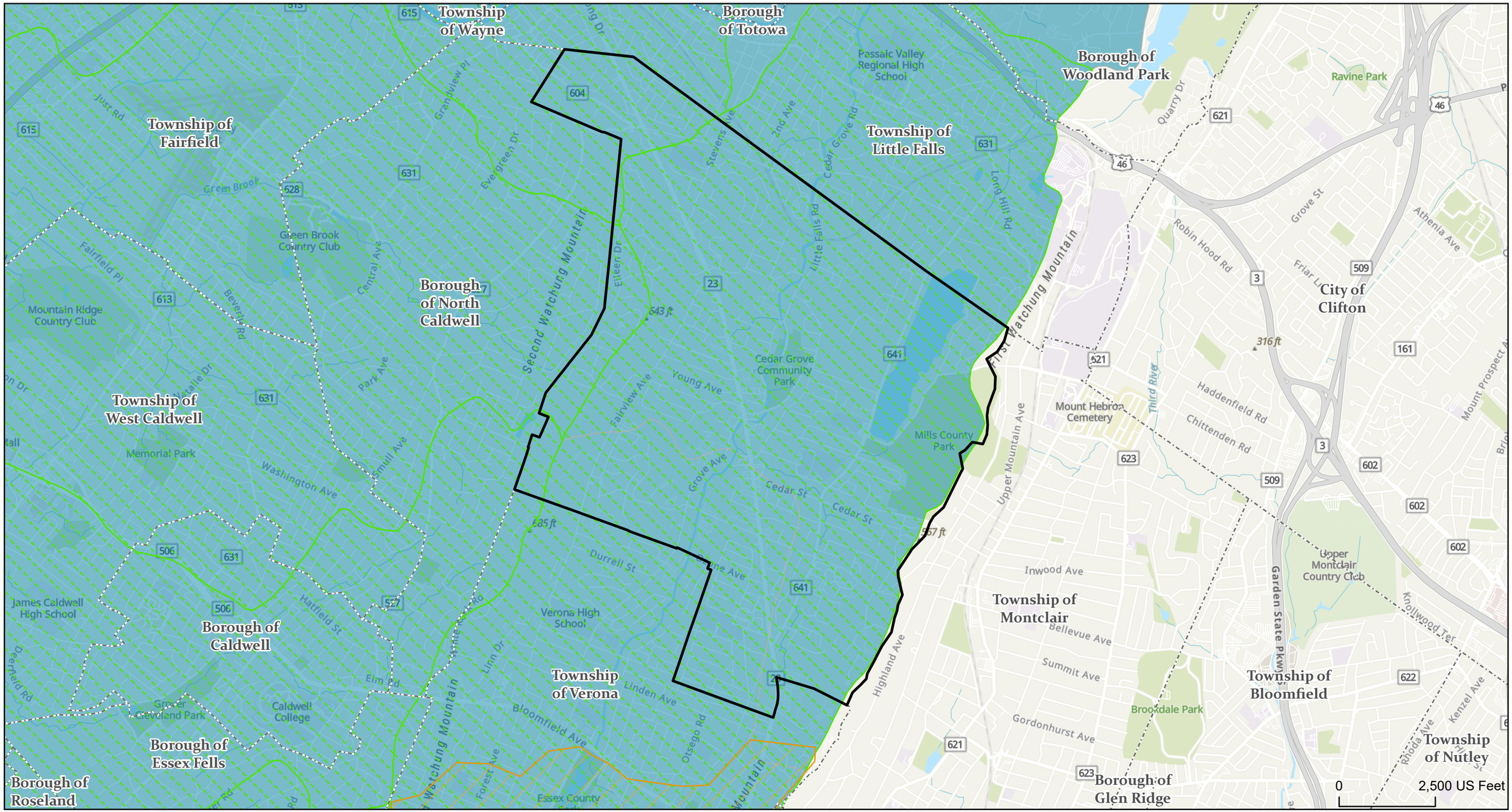
Cedar Grove Township, New Jersey
Watershed Inventory Report

Drainage Area for Each Interconnection Into Another Entities' Storm or Sanitary

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	___ of ___	1	R14572.011

Appendix I

AREA ASSOCIATED WITH EACH TOTAL MAXIMUM DAILY LOAD TMDL FOR WATERS WITHIN OR BORDERING MUNICIPALITY



TMDL (Lakesheds)
- Total Phosphorus

TMDL (Streamsheds Pre-2008)
- Fecal Coliform

TMDL (Streamsheds)
- Total Phosphorus

- Cedar Grove Township Boundary
- Neighboring Municipalities

N W E S

Source: NJDEP

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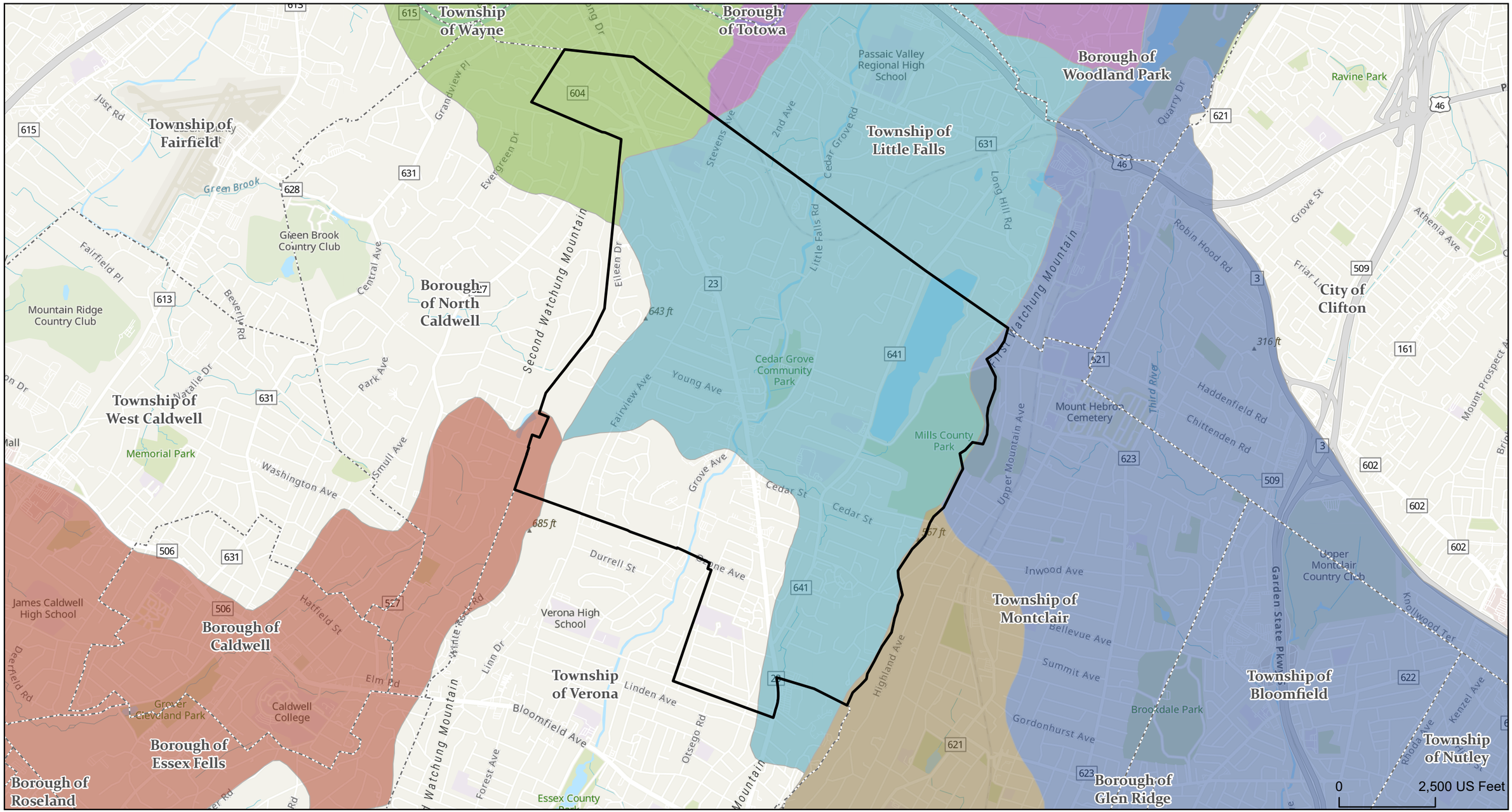
Cedar Grove Township, New Jersey
Watershed Inventory Report

Area Associated W/each
Total Maximum Daily Load (TMDL) for
Waters within or Bordering Municipality

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	___ of ___	1	R14572.011

Appendix J

AREA ASSOCIATED WITH EACH WATER QUALITY IMPAIRMENT FOR WATERS WITHIN OR BORDERING MUNICIPALITY



Parameter

- Passaic R Lwr (Goeffle Bk to Pump stn) - PCBS IN FISH TISSUE, PH, TOTAL DISSOLVED SOLIDS (TDS)
- Passaic R Lwr (Goffle Bk to Pompton R) - DISSOLVED OXYGEN, PCBS IN FISH TISSUE, PH
- Passaic R Upr (Pine Bk br to Rockaway) - PCBS IN FISH TISSUE, TOTAL DISSOLVED SOLIDS (TDS)
- Peckman River (below CG Res trib) - PCBS IN FISH TISSUE
- Second River - ESCHERICHIA COLI(E. COLI), PH, PHOSPHORUS, TOTAL
- Third River - ESCHERICHIA COLI (E.COLI), PCBS IN FISH TISSUE, PHOSPHORUS, TOTAL
- Cedar Grove Township Boundary
- Neighboring Municipalities

N W E S

Source: NJDEP

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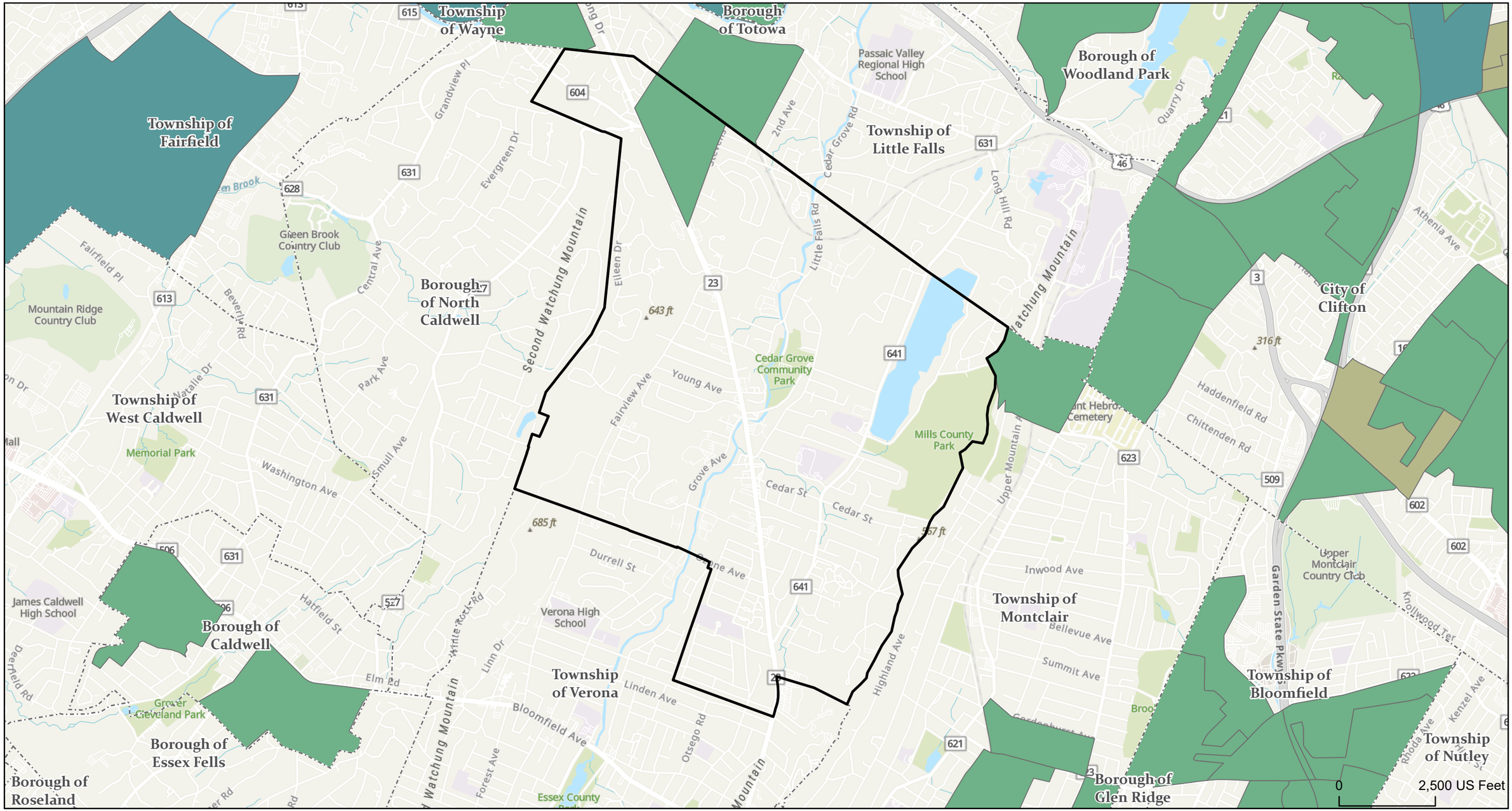
Cedar Grove Township, New Jersey
Watershed Inventory Report

Area Associated With Each
Water Quality Impairment for Waters
Within or Bordering Municipality

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	____ of ____	1	R14572.011

Appendix K

OVERBURDENED COMMUNITIES



Overburdened Community Criteria

- Low Income
- Low Income and Minority
- Minority
- Cedar Grove Township Boundary
- Neighboring Municipalities

N W E S

Source: NJDEP

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DATE: 12/10/2025	DATE: 12/10/2025

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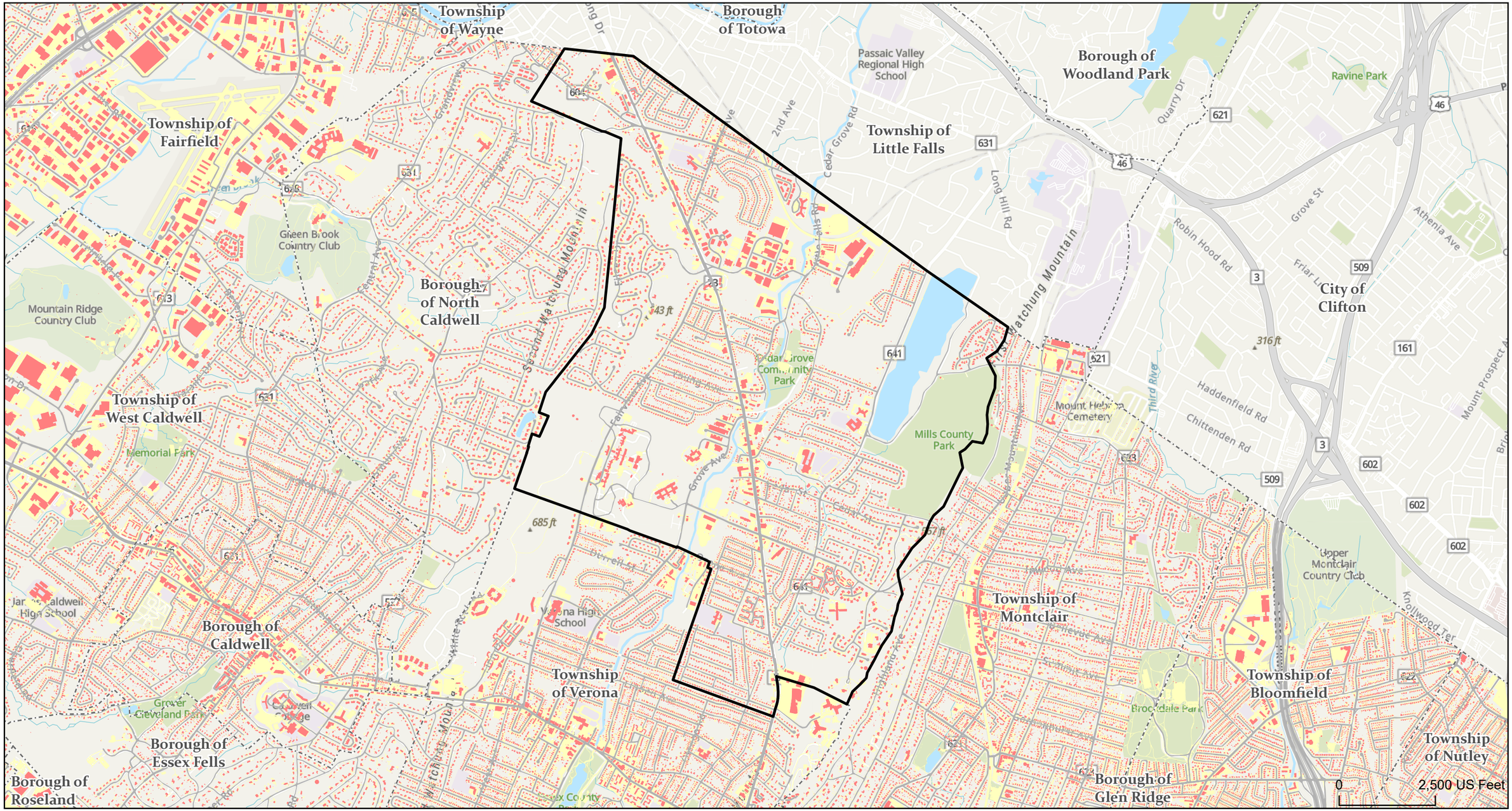
Cedar Grove Township, New Jersey
Watershed Inventory Report

Overburdened Communities

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	___ of ___	1	R14572.011

Appendix L

IMPERVIOUS AREAS



Impervious Surface

- Building
- Road
- Other
- Cedar Grove Township Boundary
- Neighboring Municipalities

N W E S

Source: NJDEP

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- Planners - Environmentalists - Land Surveyors -

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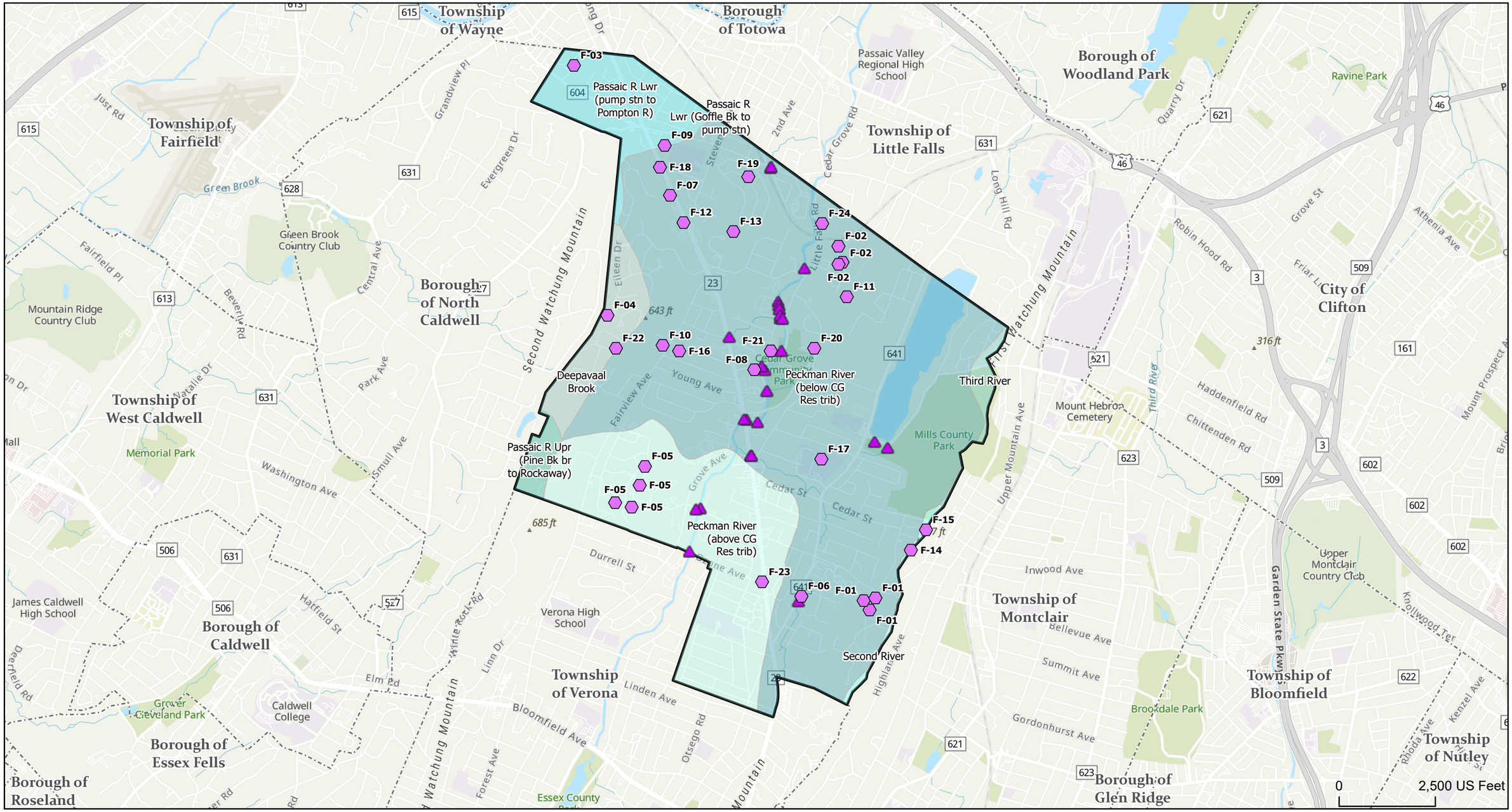
Cedar Grove Township, New Jersey
Watershed Inventory Report

Impervious Areas

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	____ of ____	1	R14572.011

Appendix M

LOCATION OWNERSHIP OF STORMWATER OUTFALLS BASINS INFRASTRUCTURE NOT OWNED OPERATED BY PERMITTEE



MS4 Outfall

Stormwater Facility Points

Cedar Grove Township Boundary

Neighboring Municipalities

Hydrologic Units Within Township

- Deepavaal Brook
- Passaic R Lwr (Goffle Bk to pump stn)
- Passaic R Lwr (pump stn to Pompton R)
- Passaic R Upr (Pine Bk br to Rockaway)
- Peckman River (above CG Res trib)
- Peckman River (below CG Res trib)
- Second River
- Third River

N W E S

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Cedar Grove Township, New Jersey
Watershed Inventory Report

Location & Ownership of Stormwater Outfalls & Basins/Infrastructure Not Owned/Operated by Permittee

SCALE:	SHEET	REVISION	PROJECT NO.
1" = 2,500'	___ of ___	1	R14572.011