APPENDICES

APPENDIX A

COLDEN PARK STP

SERVICE AREA: Newburgh (T) — 1011 persons

TREATMENT INFORMATION:

Design Flow:	0.100 MGD	Receiving Body:	Colden Park Stream
Average Flow:	0.190 MGD	Stream Class:	D
Peak Flow:	0.314 MGD	Sewer Type:	Separate
GPCD reported:	188	Built/Rehab:	1961

Type of Treatment: Imhoff tank; intermittant sand filter; seasonal chlorine disinfection

Sludge Treatment: No sludge treatment on site

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0 %

Problems: Plant is overloaded.

COMMENTS:

- o This is an old facility.
- o The Colden Park STP maintains a satisfactory operation at present
- o The plant is expected to be incorporated into the City of Newburgh STP as part of the extension plan for the Crossroads Sewer District.

CORNWALL STP

SERVICE AREA:

Cornwall (T)	5500 persons
Cornwall-on-Hudson (V)	2000 persons

TREATMENT INFORMATION:

Design Flow:	1.500 MGD	Receiving Body:	Hudson River
Average Flow:	1.250 MGD	Stream Class:	B
Peak Flow:	2.000 MGD	Sewer Type:	Separate
GPCD reported:	167	Built/Rehab:	1970

Type of Treatment: Primary clarifier; trickling filter; secondary clarifier; chlorine disinfection

Sludge Treatment: Anaerobic digestion; centrifuge dewatering

Sludge Disposal: Landfill

Industries Served: None

Industrial Flow: 0 %

Problems: 50 year old collection system causes I/I.

COMMENTS:

- o This is an old facility.
- o The Cornwall STP maintains a satisfactory operation at present.
- o Site area is extremely limiting to future expansion due to topography and proximity to Hudson River.
- o Outfall length is 30-40 feet into mouth of Moodna Creek

CRAGSTON STP

SERVICE AREA: Highland Falls 4200 persons

TREATMENT INFORMATION:

Design Flow:	1.350 MGD	Receiving Body:	Hudson River
Average Flow:	0.400 MGD	Stream Class:	B
Peak Flow:	0.750 MGD	Sewer Type:	Separate
GPCD reported:	95	Built/Rehab:	1988mx2^G^[illegible]atment:

Primary clarifier; rotating biological contactor; secondary clarifier

Type of Treatment: Primary clarifier, rotating biological contactors, secondary clarifiers, seasonal chlorine disinfection

Sludge Treatment: Anaerobic digestion, belt filter dewatering

Sludge Disposal: Landfill

Industries Served: None

Industrial Flow: 0 %

Problems: None reported

COMMENTS:

- o This facility is oversized.
- o The Cragston STP maintains a satisfactory operation at present.
- o Site has limited space available for potential future expansion.
- o Outfall length is about 300 feet into Hudson River.

FIRTHCLIFFE WTP

SERVICE AREA: Cornwall (T) 1500 persons

TREATMENT INFORMATION:

Design Flow:	0.120 MGD	Receiving Body:	Moodna Creek
Average Flow:	0.075 MGD	Stream Class:	C
Peak Flow:	0.085 MGD	Sewer Type:	Separate
GPCD reported:	50	Built/Rehab:	1966

Type of Treatment: Extended aeration; seasonal chlorine disinfection

Sludge Treatment: Aerobic digestion

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0 %

Problems: None reported

COMMENTS:

- o This is an old facility.
- o The Firthcliffe STP maintains a satisfactory operation at present.
- o Site characteristics are unknown.
- o It is likely that an expansion of the facility will require some level of advanced treatment.

FLORIDA STP

SERVICE AREA: Florida — 2450 persons

TREATMENT INFORMATION:

Design Flow:	0.300 MGD	Receiving Body:	Quaker Creek
Average Flow:	0.280 MGD	Stream Class:	D
Peak Flow:	0.550 MGD	Sewer Type:	Separate
GPCD reported:	102	Built/Rehab:	1974

Type of Treatment: Primary clarifier; trickling filter; secondary clarifier; chlorine disinfection

Sludge Treatment: Gravity sludge thickening; centrifuge sludge dewatering

Sludge Disposal: Landfill; scavenger

Industries Served: Zircar insulation

Industrial Flow: 5%

Problems: Study and I/I correction are on-going

COMMENTS:

- o The Florida STP has experienced problems meeting allowable permit limits for ammonia and ultimate oxygen demand. The plant presently operates under an order of consent from NYSDEC.
- o Expansion and upgrade plans for the plant are being prepared by the Village of Florida.
- o It is expected that the Quaker Creek will be reclassified from class D to class C, requiring a more strict ammonia limitation.
- o Site appears to have adequate space for potential future expansion of the plant.
- o Plant operation by Professional Services Group.

FORT MONTGOMERY STP

SERVICE AREA: Highlands — 1000 persons

TREATMENT INFORMATION:

Design Flow:	0.125 MGD	Receiving Body:	Hudson River
Average Flow:	0.050 MGD	Stream Class:	B
Peak Flow:	0.150 MGD	Sewer Type:	Separate
GPCD reported:	50	Built/Rehab:	1985

Type of Treatment: Extended aeration; chlorine disinfection

Sludge Treatment: Diffused air aerobic digestion; covered drying beds

Sludge Disposal: Landfill

Industries Served: None

Industrial Flow: 0 %

Problems: None reported

COMMENTS:

- o The Fort Montgomery STP maintains as satisfactory operation at present.
- o Site has limited space available for potential future expansion.

GOSHEN (V) STP

SERVICE AREA: Goshen (V) 5500 persons
Goshen (T) 1800 persons

TREATMENT INFORMATION:

Design Flow:	1.500 MGD	Receiving Body:	Rio Grande Creek
Average Flow:	1.144 MGD	Stream Class:	D
Peak Flow:	2.490 MGD	Sewer Type:	Separate
GPCD reported:	157	Built/Rehab:	1969

Type of Treatment: Primary clarifier; trickling filter; secondary clarifier; chlorine disinfection; oxidation pond

Sludge Treatment: Anaerobic sludge digestion; open drying beds

Sludge Disposal: Fertilizer; on-site disposal

Industries Served: Sorrento Cheese 100,000 GPD

Industrial Flow: 10%

Problems:
- o Need more capacity due to I/I problems
- o High infiltration - collection system built in 1914

COMMENTS:
- o This is an old plant.
- o The Goshen STP maintains a satisfactory operation at present.
- o Site appears to have adequate space available for potential future expansion.

HAMLET STP

SERVICE AREA: Tuxedo (T) 600 persons

TREATMENT INFORMATION:

Design Flow:	0.100 MGD	Receiving Body:	Ramapo River
Average Flow:	0.040 MGD	Stream Class:	A (T)
Peak Flow:	0.250 MGD	Sewer Type:	Separate
GPCD reported:	28	Built/Rehab:	1931; Upgraded 1988

Type of Treatment: Imhoff tank; trickling filter; final clarifier; chlorine disinfection

Sludge Treatment: No sludge treatment on site

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0 %

Problems: Significant I/I - clay pipe with mortar joints

COMMENTS:
- o This is an old plant.
- o The Hamlet STP maintains a satisfactory operation at present.
- o Site has limited space available for potential future expansion.

HIDDEN VALLEY ESTATES STP

SERVICE AREA: Mount Hope 350 persons

TREATMENT INFORMATION:

Design Flow:	0.060 MGD	Receiving Body:	Shawangunk Kill Trib
Average Flow:	0.035 MGD	Stream Class:	B
Peak Flow:	0.060 MGD	Sewer Type:	Separate
GPCD reported:	100	Built/Rehab:	1969

Type of Treatment: Extended aeration; rapid sand filtration; chlorine disinfection

Sludge Treatment: Diffused air aerobic digestion

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems: None reported

COMMENTS:

- o This is an old plant.
- o The Hidden Valley Estates STP maintain a satisfactory operation at present.

KING TRACT STP

SERVICE AREA: Chester (T) 120 persons

TREATMENT INFORMATION:

Design Flow:	0.020 MGD	Receiving Body:	Seely Brook Trib
Average Flow:	0.007 MGD	Stream Class:	D
Peak Flow:	0.014 MGD	Sewer Type:	Separate
GPCD reported:	58	Built/Rehab:	1982

Type of Treatment: Septic tank overflow to intermittent sand filter; overland flow treatment on site

Sludge Treatment: No sludge treatment on site

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0 %

Problems:

- o Grit creates problems with sludge
- o About 10% of flow is infiltration

COMMENTS:

- o The King Tract STP maintains a satisfactory operation at present.
- o Grit problems could be due to sand that can enter system with infiltration.
- o It is expected that this tributary to the Seely Brook will be reclassified from Class D to Class C, which may require an upgrade in the level of treatment provided by the plant.

MAYBROOK STP

SERVICE AREA: Maybrook — 2007 persons

TREATMENT INFORMATION:

Design Flow:	0.400 MGD	Receiving Body:	Otter Kill Trib
Average Flow:	0.250 MGD	Stream Class:	D
Peak Flow:	0.375 MGD	Sewer Type:	Separate
GPCD reported:	125	Built/Rehab:	1971

Type of Treatment: Primary clarifier; trickling filter; secondary clarifer; no disinfection

Sludge Treatment: Anaerobic sludge digestion; open drying beds

Sludge Disposal: Landfill

Industries Served:

Industrial Flow: 3%

Problems: Study of I/I is needed.

COMMENTS:

- o This is an old plant.
- o The Maybrook STP has experienced problems meeting the allowable permit limit for 5-day biochemical oxygen demand.
- o Expansion and upgrade of the Maybrook STP is being considered by the Village.
- o It is expected that his Tributary to the Otter Kill will be reclassified from class D to class C, which may require an upgrade in the level of treatment required at the plant.
- o Site has limited space available for potential future expansion. An adjacent parcel may be suitable for additional treatment works.
- o Plant operation is by Mid-Hudson Pollution Control.

MIDDLETOWN STP

SERVICE AREA: Middletown — 25000 persons
Wallkill — 1500 persons

TREATMENT INFORMATION:

Design Flow:	6.000 MGD	Receiving Body:	Wallkill River
Average Flow:	5.000 MGD	Stream Class:	B
Peak Flow:	13.000 MGD	Sewer Type:	Separate
GPCD reported:	189	Built/Rehab:	1951; Expanded/Upgraded 1989

Type of Treatment: Primary clarifier; trickling filter; oxidation ditch; secondary clarifier; seasonal UV disinfection

Sludge Treatment: Anaerobic sludge digestion; belt filter press

Sludge Disposal: Now landfilled; proposed vitrification process

Industries Served: Light industrial flow

Industrial Flow: 7%

Problems: None reported

COMMENTS:

- o The Middletown STP has experienced problems meeting allowable permit limits for ammonia and ultimate oxygen demand.
- o Remedial action has been undertaken to elimate permit excursions.
- o Middletown is considering engaging in sludge stabilization process that will convert sludge for use as an aggregate product.
- o Site appears to have adequate space for potential future expansion of the plant.

MONTGOMERY (T) STP

SERVICE AREA: Montgomery (T) 600 persons

TREATMENT INFORMATION:

Design Flow:	0.060 MGD	Receiving Body:	Maybrook Reserv Trib
Average Flow:	0.032 MGD	Stream Class:	D
Peak Flow:	0.060 MGD	Sewer Type:	Separate
GPCD reported:	53	Built/Rehab:	1982

Type of Treatment: Septic tank overflow to intermittent sand filter; overland flow

Sludge Treatment: From septic tank by private hauler

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems: None reported

COMMENTS:

- The Town of Montgomery STP has experienced problems meeting the allowable summer permit limit for ammonia.
- The Town of Montgomery has completed a study which proposes an expanded sewer district and a new treatment plant located on the Wallkill River.
- It is expected this Tributary to the Maybrook Reservoir will be reclassified from class D to class C, which may require an upgrade in the level of treatment provided by the plant.
- Site appears to have adequate space for potential future expansion.

MONTGOMERY (V) STP

SERVICE AREA: Montgomery (V) 3000 persons

TREATMENT INFORMATION:

Design Flow:	0.500 MGD	Receiving Body:	Wallkill River
Average Flow:	0.300 MGD	Stream Class:	B
Peak Flow:	0.750 MGD	Sewer Type:	Separate
GPCD reported:	100	Built/Rehab:	1985

Type of Treatment: Oxidation ditch; final clarifier; seasonal chlorine disinfection

Sludge Treatment: Open drying beds

Sludge Disposal: Landfill

Industries Served: Allpack Boxes; Brescia Lumber; Nabisco

Industrial Flow: 3%

Problems: None reported

COMMENTS:

- The Village of Montgomery STP maintains a satisfactory operation at present.
- Correction of I/I is underway.
- Site appears to have adequate space for potential future expansion of plant. An adjacent parcel may also be suitable for additional treatment works.

NEWBURGH STP

SERVICE AREA:

Newburgh (C)	23500 persons
Newburgh (T)	4200 persons

TREATMENT INFORMATION:

Design Flow:	7.000 MGD	Receiving Body:	Hudson River
Average Flow:	5.300 MGD	Stream Class:	B
Peak Flow:	15.000 MGD	Sewer Type:	Combined
GPCD reported:	191	Built/Rehab:	1970

Type of Treatment: Primary clarifier; conventional aeration; secondary clarifier; seasonal chlorine disinfection

Sludge Treatment: Belt filter press

Sludge Disposal: Landfill

Industries Served: None

Industrial Flow: 20%

Problems: None reported

COMMENTS:

- o This is an old plant.
- o The City of Newburgh STP maintains a satisfactory operation at present.
- o The City of Newburgh is presently preparing for expansion of the plant to 9 MGD to incorporate an expanded sewer district from the Town of Newburgh.
- o Site appears to have adequate space for future expansion of the plant.
- o Plant operation is by Metcalf & Eddy Services.

NEW WINDSOR STP

SERVICE AREA:

New Windsor	20,000 persons
Cornwall (T)	650 persons

TREATMENT INFORMATION:

Design Flow:	5.000 MGD	Receiving Body:	Moodna Creek
Average Flow:	3.250 MGD	Stream Class:	C
Peak Flow:	10.000 MGD	Sewer Type:	Separate
GPCD reported:	163	Built/Rehab:	1970

Type of Treatment: Primary clarifier; trickling filter; secondary clarifier; seasonal chlorine disinfection

Sludge Treatment: Gravity sludge thickening; centrifuge dewatering

Sludge Disposal: Landfill

Industries Served: Mt.1 cont; Alum can; Felt & Filter Dying; Lights; Meat Pkg; AFB r/o; Mobil Oil; Anh-Busch

Industrial Flow: 10%

Problems: High I/I

COMMENTS:

- o The New Windsor STP maintains a satisfactory operation at present.
- o The Town of New Windsor is presently preparing for expansion of the plant to approximately double the design capacity.
- o Site has limited space available for future expansion of the plant. An adjacent parcel may be suitable for additional treatment works.
- o Plant operation is by Camo Pollution Control.

NOB HILL STP

SERVICE AREA: Newburgh (T) 180 persons

TREATMENT INFORMATION:

Design Flow:	0.012 MGD	Receiving Body:	Hudson River Trib
Average Flow:	0.009 MGD	Stream Class:	D
Peak Flow:	0.012 MGD	Sewer Type:	Separate
GPCD reported:	50	Built/Rehab:	1985

Type of Treatment: Septic tank overflow to intermittent sand filter; overland flow

Sludge Treatment: No sludge treatment on site

Sludge Disposal: Scavanger

Industries Served: None

Industrial Flow: 0%

Problems: None reported

COMMENTS:

- The Nob Hill STP maintains a satisfactory operation at present.
- The plant is expected to be incorporated into the City of Newburgh STP as part of the extension plan for the Crossroads Sewer District.

ORANGE COUNTY HOME & INFIRMARY STP

SERVICE AREA: OC Home & Infirmary 1400 persons

TREATMENT INFORMATION:

Design Flow:	0.130 MGD	Receiving Body:	McKnight Ditch
Average Flow:	0.050 MGD	Stream Class:	D
Peak Flow:	0.070 MGD	Sewer Type:	Separate
GPCD reported:	36	Built/Rehab:	1929; Expanded 1988

Type of Treatment: Primary clarifier; RBC; trickling filter; secondary clarifier; tertiary filter

Sludge Treatment: Covered drying beds

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems: Must recirculate flow to keep trickling filter active.

COMMENTS:

- The Orange County Home & Infirmary STP has experienced problems meeting the allowable permit limit for 5-day carbonaceous biochemical oxygen demand.
- It is expected that the McKnight Ditch will be reclassified from class D to class C, which will require an upgrade in the level of treatment provided by the plant.
- Site characteristics are unknown.

ORANGE COUNTY SEWER DISTRICT NO. 1 STP

SERVICE AREA:

Blooming Gr - 3000		Chester (T) - 2900	
Chester (V) - 2300		Woodbury - 5200	
Harriman, Kiryas Joel, Monroe (T&V)		- 20800	

TREATMENT INFORMATION:

Design Flow:	4.000 MGD	Receiving Body:	Ramapo River
Average Flow:	3.700 MGD	Stream Class:	D
Peak Flow:	15.000 MGD	Sewer Type:	Separate
GPCD reported:	108	Built/Rehab:	1978

Type of Treatment: Primary clarifier; oxidation ditch; extended aeration; secondary clarifier; sand filter; UV disinfection

Sludge Treatment: Belt filter press

Sludge Disposal: Landfill

Industries Served: Chester Meat Packing 28,000 GPD; Metal plating-32,000 GPD; Nepara Chemical-24,000 GPD

Industrial Flow: 5%

Problems:
- o Woodbury discharge prohibited, allowable discharge decreased from 6 to 4 MGD.
- o Due to wet year, average flow close to capacity.
- o Wet weather flow can exceed 15 MGD

COMMENTS:
- o The Orange County District No. 1 STP has experienced problems meeting allowable permit limits for 5-day carbonaceors biochemical oxygen demand, ultimate oxygen demand, and ammonia.
- o It is expected that the Ramapo River will be reclassified from class D to class C, which may require an upgrade in the level of treatment provided by the plant.
- o Site has limited space available for potential future expansion. An adjacent parcel may be suitable for additional treatment works.

OTISVILLE FEDERAL CORRECTIONAL FACILITY STP

SERVICE AREA: Federal Jail 1200 persons

TREATMENT INFORMATION:

Design Flow:	0.200 MGD	Receiving Body:	Basher Kill Sub-Trib
Average Flow:	0.185 MGD	Stream Class:	D
Peak Flow:	0.210 MGD	Sewer Type:	Separate
GPCD reported:	150	Built/Rehab:	

Type of Treatment: Secondary

Sludge Treatment: Digestion

Sludge Disposal: Landfill

Industries Served: None

Industrial Flow: 0%

Problems: None reported

COMMENTS:
- o A task force has been created to evaluate the feasibility of creating a joint sewerage district serving the state and federal prisons, Village of Otisville, and Town of Mount Hope.
- o It is expected that this subtributary of the Basher Kill will be reclassified from class D to class C, which may require an upgrade in the level of treatment provided at the plant.

OTISVILLE STATE CORRECTIONAL FACILITY STP

SERVICE AREA: State Jail — 645 persons

TREATMENT INFORMATION:

Design Flow:	0.115 MGD	Receiving Body:	Shawangunk Kill Trib
Average Flow:	0.237 MGD	Stream Class:	B
Peak Flow:	1.000 MGD	Sewer Type:	Combined
GPCD reported:	367	Built/Rehab:	1962; Expanded 1989

Type of Treatment: Primary clarifier; trickling filter; secondary clarifier; sand filter; seasonal chlorine disinfection

Sludge Treatment: Digestion; sludge drying beds

Sludge Disposal: Landfill

Industries Served: None

Industrial Flow: 0%

Problems: Plant subject to very bad infiltration.

COMMENTS:

- o This plant is overloaded.
- o The Otisville Correctional Facility STP has experienced problems meeting allowable permit limits for 5-day carbonaceous biochemical oxygen demand.

PINE BUSH STP

SERVICE AREA: Crawford — 2000 persons

TREATMENT INFORMATION:

Design Flow:	0.150 MGD	Receiving Body:	Shawangunk Kill
Average Flow:	0.120 MGD	Stream Class:	B
Peak Flow:	0.155 MGD	Sewer Type:	Separate
GPCD reported:	60	Built/Rehab:	1983

Type of Treatment: Septic tank overflow to oxidation ditch; final clarifier; seasonal UV disinfection

Sludge Treatment: Diffused air aerobic digestion

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems: None reported

COMMENTS:

- o The Pine Bush STP maintains a satisfactory operation at present.
- o Site appears to have adequate space available for potential future expansion.

PORT JERVIS STP

SERVICE AREA: Port Jervis — 8800 persons

TREATMENT INFORMATION:

Design Flow:	2.500 MGD	Receiving Body:	Neversink River
Average Flow:	1.300 MGD	Stream Class:	B
Peak Flow:	3.500 MGD	Sewer Type:	Separate
GPCD reported:	148	Built/Rehab:	1966

Type of Treatment: Imhoff tank; trickling filter; secondary clarifier; chlorine disinfection

Sludge Treatment: Anaerobic digestion; covered drying beds; centrifuge dewatering

Sludge Disposal: Landfill

Industries Served: Cosmetics, metal working

Industrial Flow: 10%

Problems: None reported

COMMENTS:

- o This is an old plant.
- o Plant owned and operated by NYCDEP.
- o The Port Jervis STP maintains a satisfactory operation at present.
- o Site characteristics are unknown.

RIDGEBURY LAKE ACRES STP

SERVICE AREA: Wawayanda — 200 persons

TREATMENT INFORMATION:

Design Flow:	0.030 MGD	Receiving Body:	Ridgebury Stream
Average Flow:	0.015 MGD	Stream Class:	D
Peak Flow:	0.030 MGD	Sewer Type:	Separate
GPCD reported:	75	Built/Rehab:	1973

Type of Treatment: Extended aeration package plant

Sludge Treatment: No sludge treatment on site

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems: Occasional infiltration during extended rain

COMMENTS:

- o This is an old plant.
- o The Ridgebury Lake Acres STP has experienced problems meeting permit limits for 5-day biochemical oxygen demand and ammonia.
- o Site characteristics are unknown.

ROBINN MEADOWS STP

SERVICE AREA: Wawayanda — 300 persons

TREATMENT INFORMATION:

Design Flow:	0.040 MGD	Receiving Body:	Indigot Creek Trib
Average Flow:	0.023 MGD	Stream Class:	D
Peak Flow:	MGD	Sewer Type:	Separate
GPCD reported:	77	Built/Rehab:	

Type of Treatment: Extended aeration package plant

Sludge Treatment: No sludge treatment on site

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems: Occasional at rainy times

COMMENTS:

- The Robinn Meadows STP maintains a satisfactory operation at present.
- Site characteristics are unknown.

SUGAR LOAF STP

SERVICE AREA: Chester (T) — 400 persons

TREATMENT INFORMATION:

Design Flow:	0.050 MGD	Receiving Body:	Ridgebury Stream
Average Flow:	0.020 MGD	Stream Class:	D
Peak Flow:	0.040 MGD	Sewer Type:	Separate
GPCD reported:	50	Built/Rehab:	1982

Type of Treatment: Subsurface sand filter; overland flow

Sludge Treatment: No sludge treatment on site

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems:

- Grit creates problems with sludge
- About 10% of flow is infiltration

COMMENTS:

- The Sugar Loaf STP maintains a satisfactory operation at present.
- It is expected that this Tributary to the Black Meadow Creek will be reclassified from class D to class C, which may require an upgrade in the level of treatment provided by the plant.
- Site is limited in space available for potential future expansion of plant. An adjacent parcel may be suitable for additional treatment works.

TAPPAN HOMES STP

SERVICE AREA: Blooming Grove — 628 persons

TREATMENT INFORMATION:

Design Flow:	0.064 MGD	Receiving Body:	Satterly Creek
Average Flow:	0.042 MGD	Stream Class:	D
Peak Flow:	MGD	Sewer Type:	Separate
GPCD reported:	67	Built/Rehab:	1973

Type of Treatment: Conventional aeration

Sludge Treatment: Aerobic digestion

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems:
- o Some surface inflow - rehabilitation underway

COMMENTS:
- o This is an old plant.
- o The Tappan Homes STP maintains a satisfactory operation at present.
- o It is expected that the Satterly Creek will be reclassified from class D to class C, which may require an upgrade in the level of treatment provided by the plant.
- o Site characteristics are unknown.

TARGET HILL STP

SERVICE AREA: West Point Military Academy — 7000 persons

TREATMENT INFORMATION:

Design Flow:	2.060 MGD	Receiving Body:	Hudson River
Average Flow:	1.500 MGD	Stream Class:	B
Peak Flow:	4.000 MGD	Sewer Type:	Separate
GPCD reported:	214	Built/Rehab:	

Type of Treatment: Secondary

Sludge Treatment: Digestion

Sludge Disposal: Landfill

Industries Served: None

Industrial Flow: 0%

Problems: None reported

COMMENTS: None

TUXEDO PARK STP

SERVICE AREA: Tuxedo Park (V) 875 persons

TREATMENT INFORMATION:

Design Flow:	0.150 MGD	Receiving Body:	Ramapo Tributary
Average Flow:	0.060 MGD	Stream Class:	D
Peak Flow:	0.300 MGD	Sewer Type:	Separate
GPCD reported:	69	Built/Rehab:	1933; Expanded 1986

Type of Treatment: Imhoff tank; trickling filter; recirculating tank; chlorine disinfection

Sludge Treatment: Open drying beds

Sludge Disposal: On-site disposal

Industries Served: None

Industrial Flow: 0%

Problems: Have problem with I/I - old collection system

COMMENTS:

- o The Tuxedo Park STP maintains a satisfactory operation at present.
- o Plant was oversized in original design. Tricking filter recycle helps system treat well.
- o It is expected that this Tributary to the Ramapo River will be reclassified from class D to class C, requiring an upgrade in the level of treatment provided by the plant.
- o Site appears to have adequate space for potential future expansion of the plant.

VALLEY FORGE STP

SERVICE AREA: Woodbury 160 persons

TREATMENT INFORMATION:

Design Flow:	0.036 MGD	Receiving Body:	Woodbury Creek Trib
Average Flow:	0.021 MGD	Stream Class:	D
Peak Flow:	0.060 MGD	Sewer Type:	Separate
GPCD reported:	131	Built/Rehab:	1967

Type of Treatment: Extended aeration; intermittent sand filter; seasonal chlorine disinfection

Sludge Treatment: Two holding tanks

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems: Need inflow correction

COMMENTS:

- o This is an old plant.
- o The Valley Forge STP maintains a satisfactory operation at present.
- o Expansion of the facility is planned by developer in order to accomodate 82 new homes.
- o It is expected that the Tributary to the Woodbury Creek will be reclassified from class D to class C, which may require and upgrade in the level of treatment provided by the plant.
- o Site characteristics are unknown.

WALDEN STP

SERVICE AREA: Walden 6200 persons

TREATMENT INFORMATION:

Design Flow:	1.100 MGD	Receiving Body:	Wallkill River
Average Flow:	0.700 MGD	Stream Class:	B
Peak Flow:	2.000 MGD	Sewer Type:	Separate
GPCD reported:	113	Built/Rehab:	1968; Expanded 1985

Type of Treatment: Primary clarifier; trickling filter; secondary clarifier; seasonal chlorine disinfection

Sludge Treatment: Anaerobic sludge digestion; open drying beds

Sludge Disposal: Landfill

Industries Served: Wires; computer broads; pipe fittings; bags; lights; printing

Industrial Flow: 10%

Problems: None reported

COMMENTS:

- o The Walden STP maintains a satisfactory operation at present.
- o Walden has a capital improvement program in place to remedy I/I.
- o Site has limited space available for potential future expansion. An adjacent parcel may be suitable for additional treadment works.

WALLKILL STP

SERVICE AREA: Wallkill 12,000 persons

TREATMENT INFORMATION:

Design Flow:	4.000 MGD	Receiving Body:	Wallkill River
Average Flow:	2.000 MGD	Stream Class:	B
Peak Flow:	12.000 MGD	Sewer Type:	Separate
GPCD reported:	167	Built/Rehab:	1988

Type of Treatment: Extended air oxidation basins; final clarifiers; UV disinfection

Sludge Treatment: Thickening of WAS; belt filter press

Sludge Disposal: Landfill

Industries Served: Lead recyc, Alum cans; ceramic/mtl bonding; wire; tape; A1S04; printing

Industrial Flow: 30%

Problems: I/I problem during large storm events

COMMENTS:

- o Plant is expandable to 6.0 MGD.
- o The Wallkill STP maintains a satisfactory operation at present.
- o Site has limited space available for potential future expansion. An adjacent parcel may be suitable for additional treatment works.

WARWICK (T) STP

SERVICE AREA: Warwick (T) 1500 persons

TREATMENT INFORMATION:

Design Flow:	0.390 MGD	Receiving Body:	Longhouse Creek
Average Flow:	0.240 MGD	Stream Class:	B
Peak Flow:	0.500 MGD	Sewer Type:	Separate
GPCD reported:	160	Built/Rehab:	1988

Type of Treatment: Oxidation ditch; final clarifier; ABW sand filter; UV disinfection

Sludge Treatment: Anaerobic digestion; dissolved air floation; belt filter press

Sludge Disposal: Landfill

Industries Served: None

Industrial Flow: 0%

Problems:
- o Strict ammonia limitation (2.0 mg/l summer; 6.0 mg/l winter)
- o High I/I due to 30 year old collection system

COMMENTS:
- o The Town of Warwick STP maintains a satisfactory operation at present, although some problems meeting the winter permit limit for ammonia have been experienced.
- o Plant is expandable to 1.5 MGD.
- o The site appears to have adequate space available for potential future expansion of plant. An adjacent parcel may also be suitable for additional treatment works.
- o Plant operation is by Kesco.

WARWICK (V) STP

SERVICE AREA: Warwick (V) 4,320 persons

TREATMENT INFORMATION:

Design Flow:	0.500 MGD	Receiving Body:	Wawayanda Creek
Average Flow:	0.640 MGD	Stream Class:	C (T)
Peak Flow:	1.000 MGD	Sewer Type:	Separate
GPCD reported:	148	Built/Rehab:	1973

Type of Treatment: Primary clarifer; trickling filter; secondary clarifier; seasonal chlorine disinfection.

Sludge Treatment: Anaerobic sludge digestion; open drying beds; belt filter press

Sludge Disposal: Landfill

Industries Served: Paper process - 20,000 GPD/mo.

Industrial Flow: 3%

Problems: Significant I/I - corrective action being taken.

COMMENTS:
- o This is an old plant.
- o The plant is overloaded.
- o The Village of Warwick STP has experienced problems meeting the permit limit for 5-day biochemical oxygen demand.
- o The facility is operating under a consent order from DEC and plans for expansion and upgrade are now being prepared by the Village.
- o Site appears to have adequate space available for potential future expansion of plant. An adjacent parcel may also be suitable for additional treatment works.
- o Plant operation is by Camo Pollution Control.

WASHINGTONVILLE STP

SERVICE AREA: Washingtonville 3800 persons

TREATMENT INFORMATION:

Design Flow:	0.400 MGD	Receiving Body:	Moodna Creek
Average Flow:	0.330 MGD	Stream Class:	C
Peak Flow:	0.750 MGD	Sewer Type:	Separate
GPCD reported:	87	Built/Rehab:	1972

Type of Treatment: Primary clarifier; trickling filter; secondary clarifier; seasonal chlorine disinfection

Sludge Treatment: Anaerobic sludge digestion; open drying beds

Sludge Disposal: Landfill

Industries Served: Brotherhood Winery (107,200 GPD in 1989 but recently cut from system)

Industrial Flow: 0%

Problems: Significant I/I

COMMENTS:

- The Washingtonville STP maintains a satisfactory operation at present, although some problems meeting the permit limit for 5-day biochemical oxygen demand have been experienced.
- Plans for expansion and upgrade of the plant are presently being prepared by the Village of Washingtonville.
- Site has limited space available for future expansion. An adjacent parcel may be suitable for additional treatment works.

WINTERGREEN STP

SERVICE AREA: Newburgh (T) 178 persons

TREATMENT INFORMATION:

Design Flow:	0.020 MGD	Receiving Body:	Quassaic Creek
Average Flow:	0.010 MGD	Stream Class:	D
Peak Flow:	0.014 MGD	Sewer Type:	Separate
GPCD reported:	56	Built/Rehab:	1940

Type of Treatment: Septic tank overflow to trickling filter; secondary clarifier; seasonal chlorine disinfection

Sludge Treatment: No sludge treatment on site

Sludge Disposal: Scavenger

Industries Served: None

Industrial Flow: 0%

Problems: None reported

COMMENTS:

- This is an old plant.
- The Colden Park STP maintains a satisfactory operation at present.
- The plant is expected to be incorporated into the City of Newburgh STP as part of the extension plan for the crossroads sewer district.
- It is expected that the Quassaic Creek will be reclassified from class D to class C, which may require an upgrade in the level of treatment provided by the plant.