WTP NPDES Compliance Evaluation Inspection

Date: 11/17/2022 NPDES: TN0077909

Facility: City of Crossville - Meadow Park WTP

Address: 963 City Lake Road

City: Crossville State: TN Zip: 38572

Contact: Joe Kerley Title: Director

Phone 1: (931) 788-5515 Phone 2:

I. Permit Verification

Yes	No	Inspection Observation to Verify Information Contained in Permit
✓		1. Current Copy of Permit on-Site?
✓		2. Correct Name and Mailing Address
✓		3. Type of Facility
✓		4. Facility is as Described in Permit
✓		5. State has been notified of new, different increased discharges, if any
✓		6. Number and Location of Discharge Points as Described in Permit
✓		7. Name and Location of Receiving Waters Correct
✓		8. All Discharges Permitted

II. Recordkeeping and Reporting Evaluation

Yes	No	Records and Reports Maintained as Required By Permit
✓		1. All Information available, complete, and current
✓		2. Information retained for 3 + years
✓		3. Sampling and Analysis Data are Adequate and Include:

✓		a. Dates, times, location of sampling
✓		b. Initials of Individual Performing Sampling
✓		c. Approved Methods
✓		d. Results of Analyses and Calibration
✓		e. Dates and Time of Analysis
✓		f. Initials of Person Performing Analysis
✓		4. O & M Manual
✓		5. As-built & State Approved Plans and Specifications

Yes	No	DMR Completion Meets the Self-Monitoring Reporting Requirements
✓		1. Analytical Bench Sheets Consistent with the Dates on the DMR
✓		2. All data that is Collected Is Summarized on the DMR
✓		3. Number of Exceedences Column Id Completed Correctly

III. Facility Site Review Checklist

Yes	No	Treatment Facility Properly Operated and Maintained
✓		1. Standby Power or Other Equivalent Is Provided
✓		2. Alarm System for Power and/or Equipment Id Provided
	✓	a. During Power Failures, have you experienced any problems
	✓	b. Are there untreated bypass discharges during power failures
		3. Sludge Disposal Procedures are Appropriate
✓		a. Disposal of Sludge According to Federal, State, and Local Regulations
✓		b. Disposal Sites Approved by State
✓		4. Sufficient Sludge is Disposes of to Maintain Treatment Integrity
		If Not, Why
✓		5. Preventative Maintenance Schedules Established and Performed
✓		6. O & M Adequate
✓		7. Consulting Engineer on Retainer

IV. Flow Measurement Checklist

Yes	No	Flow Measurements Meeting Requirements and Intent of Permit
✓		1. Outfall Inspection by Operator
		Frequency: Daily
✓		2. Effluent Flow Calculated Using Effluent Flow
		If Not, Explain

V. Laboratory Quality Assurance Checklist

Yes	No	Laboratory Requirements Meet the Requirements of the Permit
	✓	1. Are Parameters Other Than Those Listed on the Permit Analyzed For
		If so, What:
✓		2. Laboratory Quality Assurance Manual Present
✓		3. EPA Approved Analytical Testing Procedures are Used

✓		4. Laboratory Instruments Calibrated and Maintained
✓		5. Quality Control Procedures In Place
✓		6. Duplicate Samples Analyzed
		Frequency: monthly ~~PACE~~ microbac
✓		7. Spiked Samples Analyzed
		Frequency: monthly ~~PACE~~ microbac
✓		8. Commercial Laboratory Used
		Name: microbac
		Address: 505 E. Broadway
		City/State: Maryville, TN
		Zipcode: 37804
		Phone: (865) 977-1200
		Contact: Joe Sloan
✓		9. Results of Last DMR/QA Test

VI. Laboratory Checklist

		1. Chlorine Residual (EPA Approved Minimum Detection Level, 0.05 mg/l)
		a. Amperometric Titration
		b. Starch Endpoint
✓		c. Colormetric
✓		D. Meters Standardized Before Each Day's Use
✓		E. Samples Analyzed Within 15 Minutes of Sample Collection
✓		f. **Samples Analyzed for Total Chlorine, not Free**
✓		g. Reagents In date
		2. Settleable Solids WWTP
		a. Samples Thoroughly Shaken
		b. Cobwebs In Imhoff Cone
		c. Correct Procedure (Mix, Cone, 45 Min, Slowly Stir At/Near Top Perimeter of Cone for 15 Min., Read Mark)
✓		3. Total Suspended Solids WWTP
		a. Proper Equipment (Vacuum, Filter Holding Mechanism, Drying Oven, etc.)
		b. Proper Filters (Gelman A/E or Approved by Standard Methods)
		c. Balance checked with Standard Weights
		d. Temperature In Drying Oven 103-105°C
✓		4. pH
✓		a. Equipment Can Be Calibrated at Two Points
✓		b. Bracketing of pH Samples (7 and 4, or 7 and 10)
✓		c. Probe is Temperature Compensating
✓		d. Probe Stored In Manufacturers Recommended Solution
✓		e. Sample Analyzed Within 15 Min. of Collection
✓		g. Buffers and storage solutions In date
		5. Iron Storage
		a. P, FP, or G
✓		b. HNO_3 to pH <2
		6. Aluminum Storage

		a. P, FP, or G
✓		b. HNO_3 to pH <2

*P is for polyurethane, FP is for fluoropolymer, G is for glass

VII.

Yes	No	Permittee Meets the Requirements of the Permit
✓		1. Sampling Locations are as per Premit
✓		2. Sampling and Analytical Constituents and Parameters are as per Permit
✓		3. Sampling and Analytical Frequency is as per Permit
✓		4. Sampling Method is as per Permit
✓		5. Sample Collection Procedures Adequate ;
✓		b. Proper Preservation Technique Used
✓		c. Containers and sample holding times are correct (40CFR 136.3)
✓		6. Are samples collected and analyzed more often than required in Permit