



**Environmental  
Protection Agency**

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

September 4, 2012

Mr. Art Paradise  
Caesar Lake Mobile Home Park  
9500 Collett Road  
Waynesville, Ohio 45068

**RE: CAESAR LAKE MHP WWTW/COMPLIANCE EVALUATION INSPECTION  
REPORT NPDES PERMIT NO. OH0131814/OEPA PERMIT NO.  
1PV00114\*BD**

Dear Mr. Paradise:

On August 22, 2012, I conducted an NPDES Compliance Evaluation Inspection at the Caesar Lake Mobile Home Park (MHP) Wastewater Treatment Works (WWTW). Mr. Tim Patterson, Winelco, Contract Wastewater Operator, represented the facility during the inspection and I spoke with Mr. Andy Cornett WWTW Maintenance, over the telephone on August 28, 2012, for follow-up questions. The purpose of the inspection was to evaluate compliance with the NPDES (discharge) permit.

Items Noted During the Inspection:

- A review of the discharge monitoring reports from January 2011 through June 2012, revealed the following NPDES effluent limit violations:

7D = Weekly 30D = Monthly 1D = Daily Qty. = Quantity (Kg/Day)  
Conc. = Concentration (ug/l for metals, cfu/100 mls for bacteria, mg/l for all others)

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value
March 2011	001	Nitrogen, Ammonia (NH3)	30D Conc	3.0	13.4
March 2011	001	Nitrogen, Ammonia (NH3)	30D Qty	0.2	.20288
March 2011	001	Nitrogen, Ammonia (NH3)	1D Conc	4.5	13.4
May 2011	001	Total Suspended Solids	30D Conc	12	23.
May 2011	001	Total Suspended Solids	1D Conc	18	23.
September 2011	001	Total Suspended Solids	30D Conc	12	16.
September 2011	001	Fecal Coliform	30D Conc	1000	1700.
September 2011	001	CBOD 5 day	30D Conc	10	11.
October 2011	001	Total Suspended Solids	30D Conc	12	18.
November 2011	001	Total Suspended Solids	30D Conc	12	13.

Southwest District Office  
401 East Fifth Street  
Dayton, OH 45402-2911

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937 | 285 6249 (fax)  
www.epa.ohio.gov

Ohio EPA did not receive non-compliance notification reports for the violations shown above. These reports are required by Part III, item 12 of the facility's NPDES permit. Ohio EPA has provided a form that should be utilized for future non-compliance reporting; it is located here: [http://www.epa.ohio.gov/portals/35/permits/24-hour\\_reporting\\_Form4499\\_limits.doc](http://www.epa.ohio.gov/portals/35/permits/24-hour_reporting_Form4499_limits.doc)

- One of the UV disinfection bulbs is not visible since it is enclosed within a piping system. The only reason the remaining UV bulb was indirectly observable is because part of the pipe housing had been broken. According to the contract operator, there is no regular inspection schedule to ensure the UV disinfection system is operating. This should be part of the Operator of Record's (ORC's) regular duties *whenever* he/she is physically present on the plant grounds during the recreation system.

A number of similar UV disinfection systems have an observation window on the pipe housing. The window allows for verification that the system is operational and it has a coating that provides eye protection for the observer. **The ORC and the owner shall provide a written method for the operator or maintenance staff to safely perform frequent inspections of the UV disinfection system. This protocol must be submitted to this office no later than September 14, 2012.**

- According to Mr. Patterson, one of the sand filter dosing pumps was not operational. He stated that representatives from Winelco would be at the WWTW the very next day in order to replace the pump.
- During the inspection, the high water alarm floats in both the sand filter dosing pump wet well and the equalization basin were intentionally inverted in order to test the alarm light on the control panel. The alarm light activated with both tests.
- The WWTW discharge was free of any observable solids and there were no solids attributed to the WWTW in the receiving stream. At the time of the inspection the stream was dry.
- Mr. Cornett verified that there is no trash trap for the facility. Ohio EPA recommends that ownership contract with an engineer to design and install pretreatment for the WWTW. Without some method of rag/trash removal, mechanical maintenance will always be an issue. The costs associated with the installation of a properly sized trash trap are fairly inexpensive when compared to 20-year costs for increased maintenance absent pretreatment.

Prior to installation of a pretreatment unit, the engineer shall submit a permit-to-install application with detailed construction plans to this office for approval. Please contact this office for more guidance.

- **When Mr. Cornett and I spoke, he did not have information pertaining to sludge removal for the Caesar Lake MHP WWTW. Please provide the following information no later than September 14, 2012:**
  1. **Name of hauler that has been contracted to remove sludge from the WWTW.**
  2. **Name of the facility that accepts sludge from Caesar Lake MHP WWTW.**
  3. **The date when sludge was last hauled from the Caesar Lake MHP WWTW.**

#### Operator of Record Staffing Requirements

Caesar Lake MHP WWTW is permitted to discharge an average daily flow of 15,000 gallons/day. Ohio Administrative Code (OAC) 3745-7-02(A)(2) states "Each person owning or operating a treatment works or sewerage system, except as provided for in paragraph (E) of this rule, shall designate one or more operator of record to oversee the technical operation of the treatment works, sewerage system, or each wastewater treatment facility. Each operator of record shall have a valid certification of a class equal to or greater than the classification of the treatment works, sewerage system, or wastewater treatment facility." OAC 3745-7-04 states that a facility meeting the description of the Caesar Lake MHP WWTW shall have a Class A rating. **This requires that an Operator of Record, with a wastewater certification of Class A or higher, ". . . shall, at a minimum, be physically present at the treatment works and fulfill the time requirements (two days/week for a total of one hour) . . . and perform technical operation as assigned by the permittee of the treatment works."** Once the NPDES permit for the Caesar Lake MHP is renewed, ownership will be required to contract with a qualified wastewater operator to serve as the Operator of Record and be physically present at the WWTW two days during the week for a total of one hour.

#### Quality Assurance & Standard Operating Procedures

As part of the inspection process, Ohio EPA can inquire about the wastewater facility's sampling and testing program. There is minimal testing that occurs at Caesar Lake MHP WWTW. A sample of the WWTW discharge is collected,

refrigerated in a cooler and delivered to a contract laboratory for testing. However, testing for pH, temperature, and dissolved oxygen, are conducted on the WWTW grounds and, as such, should be under the guiding principles of acceptable standard operating procedures.

The foundation of the NPDES permitting program is the reliability of data “self-reported” by wastewater dischargers under permit. Part III, 3., of the Caesar Lake MHP NPDES permit requires “All wastewater treatment works shall be operated in a manner consistent with the following: At all times, the permittee shall maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee necessary to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures . . . .” Part III, 5., goes on to say, “Test procedures for the analysis of pollutants shall conform to regulation 40 CFR 136 . . . . The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to insure accuracy of measurements.”

The federal regulatory benchmark for all water and wastewater sampling/laboratory procedures is 40 CFR 136. This rule lists acceptable sampling and laboratory procedures published in “Standard Methods for the Examination of Water and Wastewater” (Standard Methods) among other resources such as the American Society for Testing and Materials (ASTM). Standard Methods is a comprehensive reference widely used throughout the industry and is cooperatively published by the American Water Works Association, Water Environment Federation and the American Public Health Association.

Standard Methods 1020A establishes that “Quality Assurance (QA) is the definitive program for laboratory operation that specifies the measure required to produce defensible data of known precision and accuracy.” Without a QA program, the MHP is without defensible data showing compliance with the NPDES permit. Standard Methods goes on to require the inclusion of Standard Operating Procedures (SOP) for each analytical method within the QA manual. The SOP should include the following applicable categories:

- Title
- Scope and Application
- Summary
- Sample Handling and Preservation
- Interferences
- Apparatus and Materials
- Reagents
- Procedure
- Calculations
- Quality Control (calibration)
- Maintenance
- Corrective Action
- Reference (Parent Method)

**During the inspection, there were several deficiencies in the testing procedures for dissolved oxygen and pH. These areas are highlighted in the attached General Lab Criteria and must be corrected without delay, but no later than September 14, 2012.**

**Acceptable standard operating procedures must be developed by the operator of record for every test procedure performed on-site and the documents should be stored with the testing equipment. The SOPs for pH, temperature and dissolved oxygen must be completed by no later than October 5, 2012. Please feel free to submit draft SOPs to this office for review and feedback prior to the compliance date.**

Thank you and your staff for the time extended during the inspection process. If you have any questions, please feel free to contact me by phone at (937) 285-6029 or by email at [joshua.jackson@epa.state.oh.us](mailto:joshua.jackson@epa.state.oh.us).

Respectfully,



Joshua Jackson  
Environmental Specialist II  
Division of Surface Water

Enclosure

cc: Mike Ullman, Winelco (w/report and attachments)  
Tim Patterson, Winelco (w/report and attachments)  
Andy Griner, Winelco (w/report and attachments)

JJ\bp



**Environmental  
Protection Agency**

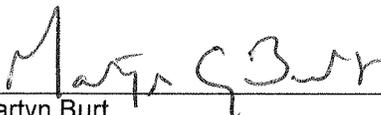
John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

Division of Surface Water-Southwest District Office

**NPDES Compliance Inspection Report**

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PV00114*BD	OH0131814	8/24/2012	C	S	2

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Caesar Lake MHP 9500 Collett Road Waynesville, Warren County (Located at the back end of the campground)	10:00 a.m.	November 1, 2007
	Exit Time	Permit Expiration Date
	11:15 a.m.	October 31, 2012
Name(s), Address and Title(s) of Operator of Record	Phone Number(s)	
Greg Ross, Mike Ullman, Robert Gomez, Robert Armstrong and Andrew Griner (Winelco) Tim Patterson (Class II WW for Winelco) was present during the inspection	(513) 755-8050	
Name, Address and Title of Responsible Official	Phone Number	
Art Paradise, Owner 9500 Collett Road Waynesville, OH 45068	(937) 431-7764	

Ohio EPA Inspector	Ohio EPA Reviewer
 Joshua Jackson Environmental Specialist II Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
9-5-2012 Date	9/5/2012 Date

Permit # : 1PV00114\*BD  
 NPDES #: OH0131814

Average Daily Design Flow:	<b>15,000 Gallons/Day</b>
Plant Serves:	Caesar Lake MHP and Frontier Campground
Average Daily Flow: (Period of Review):	<b>4,700 Gallons/Day (January 2011-June 2012)</b>
Method of flow monitoring:	<b>Elapsed time meter on sand filter dosing pumps</b>
Type of alarms for plant:	<b>High Water level for EQ tank and sand filter dosing tanks</b>

**Pretreatment**

Type of Pretreatment: **Unknown**  
 Does the Trash Trap need pumped: **N/A**  
 Maintenance of pretreatment components is: **N/A**

**Comments/Status:**

No trash trap was located. Mr. Patterson was unaware there was a trash trap for the facility.

**Secondary Treatment  
(Aeration)**

Color of sludge: **Medium Brown**  
 Quality of Sludge: **Medium**  
 Foam: **None present**  
 Odor: **No objectionable odor present**

	Yes	No		Yes	No
Aeration is taking place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is septic	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Blowers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Blowers are on a timer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Skimmers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diffusers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grating is present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sludge return is operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Maintenance of aerating equipment is...**Good**

**Comments/Status:**

**Secondary Treatment  
(Settling)**

Clarity: **Cloudy**  
 Condition of Weir: **Solids present**  
 Weir is level: **Yes**  
 Effluent in weir: **Light Solids**  
 Clarifier walls need scraped: **No**

Overall maintenance of settling components is: **Good**

**Comments/Status:**

There was some denitrifying sludge on the surface of the clarifiers.

**Tertiary Treatment**

	Yes	No		Yes	No
Surface sand Filters: <b>Slow</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Subsurface</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Distribution box operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Beds alternated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are filters ponding/flooding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Beds raked	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sand filters overgrown	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chlorination present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UV present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Dechlorination present	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Overall maintenance of components is: **Good**

**Comments/Status:**

**Sludge Handling/Storage Disposal**

Hauler name: ?  
 Disposal Site: ?  
 Sludge wasted from: **Aeration tank to sludge holding**  
 How often is sludge wasted: ?  
 Sludge drying beds: **No**                      Sludge holding tank: **Yes**

Overall maintenance of components is: **Good**

**Comments/Status:**

Mr. Patterson no information on sludge hauling.



# General Lab Criteria

Criteria	Standard Methods Requirement	Acceptable?		Rating
<b>pH Meter</b>				
<ul style="list-style-type: none"> <li>• Calibration Frequency / Documentation</li> </ul>	<ul style="list-style-type: none"> <li>• Calibration verification required for testing over long period of time (e.g. 12 hrs.), or after a large number of samples (every 10 samples)<sup>3</sup></li> </ul>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<b>U</b>
		<ul style="list-style-type: none"> <li>• Logbook maintained<sup>2</sup></li> </ul>	<input type="checkbox"/> Yes	
<ul style="list-style-type: none"> <li>• Minimum of 2 point calibration</li> </ul>	<ul style="list-style-type: none"> <li>• Calibration per manufacturer specification and calibration buffers must bracket anticipated result<sup>7</sup></li> </ul>	<b>No Manufacturer's Manual Provided</b>		
<ul style="list-style-type: none"> <li>• Slope Documentation / Acceptability</li> </ul>	<ul style="list-style-type: none"> <li>• Slope acceptable range indicated on benchsheet<sup>2</sup></li> </ul>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• Buffer Expiration Date</li> </ul>	<ul style="list-style-type: none"> <li>• Buffers must not be expired</li> </ul>	Verification could not be done. Buffers not on-site.		
<ul style="list-style-type: none"> <li>• Other</li> </ul>	<ul style="list-style-type: none"> <li>• Instrument manual available</li> </ul>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
		<ul style="list-style-type: none"> <li>• Teflon covered magnetic stirrer or equivalent for mixing<sup>8</sup></li> </ul>	<input type="checkbox"/> Yes	

Comments: No documentation is kept to verify calibrations are being performed. An instrument manual must be kept with the meter.

Criteria	Standard Methods Requirement	Acceptable?		Rating
<b>Dissolved Oxygen Meter</b>				
<ul style="list-style-type: none"> <li>• Calibration Method</li> </ul>	<ul style="list-style-type: none"> <li>• Air or known DO calibration method<sup>10</sup></li> </ul>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<b>U</b>
		<ul style="list-style-type: none"> <li>• Calibration per manufacturer specification<sup>10</sup></li> </ul>	<input type="checkbox"/> Yes	
<ul style="list-style-type: none"> <li>• Calibration Frequency / Documentation</li> </ul>	<ul style="list-style-type: none"> <li>• Logbook maintained<sup>2</sup></li> </ul>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
		<ul style="list-style-type: none"> <li>• Calibration verification required at least once each day the meter is used.<sup>3</sup></li> </ul>	<input type="checkbox"/> Yes	
<ul style="list-style-type: none"> <li>• Other</li> </ul>	<ul style="list-style-type: none"> <li>• Small to no bubble present under membrane (must be smaller than the lead in number 2 pencil)<sup>11</sup></li> </ul>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
		<ul style="list-style-type: none"> <li>• Instrument manual available</li> </ul>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Comments: No documentation is kept to verify calibrations are being performed. Mr. Patterson stated that he calibrates the DO meter once/week. The manual requires calibration every time the meter is turned on.

# General Lab Criteria

Criteria	Standard Methods Requirement		Rating
<b>Sample Collection/Handling</b>	Acceptable?		<b>NR</b>
• Sample Labeling	• Samples container labeled (description, date, time, preservative added, initialed). <sup>19</sup>	Not evaluated. No sample containers on-site.	
• Chain of Custody	• Chain of custody (description, date, time, signature). <sup>19</sup>	Not evaluated. No COC forms on-site.	
• Other	• Composite samples refrigerated during sample collection <sup>14</sup>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	• Equipment blanks utilized <sup>14</sup>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	• SOP for cleaning of sampling equipment	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	• Logbook being maintained <sup>2</sup>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<p>Comments: Mr. Patterson states that he takes same ice from his lunch box and puts it in the cooler when transporting samples to the lab. The cooler should be filled with ice and a thermometer should be utilized that the holding temperature is within the acceptable range.</p>			
Criteria	Standard Methods Requirement		Rating
<b>Bench sheets</b>	Acceptable?		<b>U</b>
• General criteria	• Date(s) <sup>2</sup>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Analyst initials <sup>2</sup>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Blue or black ink pen <sup>2</sup>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Calibration information <sup>2</sup>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Equations, calculations, units for all measurements, notations, and results present <sup>2</sup>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Corrections, single line through, initialed and dated <sup>2</sup>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>Comments: <b>No bench sheets are utilized.</b></p>			

# General Lab Criteria

Criteria	Standard Methods Requirement	Acceptable?	Rating
• General Criteria  Final Effluent Temperature Monitoring	• Thermometer calibrated annually with NIST traceable thermometer <sup>1,2</sup>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>U</b>
	• Thermometer accurate to 0.1° Celsius <sup>5</sup>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	• Log book being maintained <sup>2</sup>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Comments: Thermometer on the DO meter should be calibrated with an NIST traceable thermometer.			

## Notation of Referenced Method

- |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                      |
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| 1 Method 9020-B, Item 3<br>2 Method 1020-A, Item 1<br>3 Method 1020-B, Item 10<br>4 Method 2540-B, Item 2<br>5 Method 2550-B, Item 1<br>6 Method 1020-A, Item 1<br>7 Method 4500-H B, Item 4<br>8 Method 4500-H B, Item 2<br>9 Method 1020-B, Item 2<br>10 Method 4500-O B, Item 3<br>11 Method 4500-O G, Item 3<br>12 Method 5210-B, Item 5<br>13 CFR 136.3, Table II | 14 Method 1060A, Item 1<br>15 Method 4500-CI I, Item 2<br>16 Method 4500-CI I, Item 4<br>17 Method 4500-NH3 D, Item 4<br>18 Method 4500-NH3 D, Item 2<br>19 Method 1060-B, Item 2<br>20 Method 1060-B, Item 1<br>21 Method 9222D, Item 1<br>22 Method 9223 B, Item 2<br>23 Method 9223 B, Item 3<br>24 Method 1603, Item 2<br>25 Method 9030-B, Item 3<br>26 Method 9020 B, Table IV |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Equipment Logbook Content - all maintenance performed on a piece of equipment should be documented in the logbook. This should include parts replacement and routine maintenance activities. Entries should include date, maintenance performed and initials of person making entry.

## **Preservation and Holding Times**

Parameter	Container	Min. Sample Size (mL)	Sample Type	Preservation	Maximum Storage Time	
					Recommended	Regulatory
BOD / CBOD	P, G	1000	G, C	Refrigerate ≤6° C	6h	48h
TSS	P, G	200	G, C	Refrigerate ≤6° C	7 d	7 d
pH	P, G	50	G	Analyze immediately	0.25h	0.25 h
NH3-N	P, G	500	G, C	Analyze as soon as possible or add H <sub>2</sub> SO <sub>4</sub> to pH <2, Refrigerate ≤6° C	7 d	28 d
TRC	P, G	500	G	Analyze immediately	0.25h	0.25 h
DO (electrode)	G, BOD Bottle	300	G	Analyze immediately	0.25h	0.25 h
Temperature	P, G	--	G	Analyze immediately	0.25h	0.25 h
Metals, general	P, G	1000	G, C	For dissolved filter immediately and add HNO <sub>3</sub> to pH <2	6 months	6 months
Purgeables by purge	G	40 (X2)	G	HCl to pH<2, Refrigerate ≤6° C	7 d	14 d

# General Lab Criteria

and trap	(PTFE lined lid)					
Base/Neutrals and acids	G (solvent rinsed or baked)	1000	C, G	Refrigerate $\leq 6^{\circ}\text{C}$	7 d	7 days until extraction 40 days after extraction
Pesticides	G (PTFE lined lid)	1000	C	Refrigerate $\leq 6^{\circ}\text{C}$	7 d	7 days until extraction 40 days after extraction
Fecal Coliform / E-Coli	G, P (Sterilized)	100	G	Refrigerate $\leq 10^{\circ}\text{C}$ If chlorine present, add sodium thiosulfate tablet	6 hrs transport Start analysis within 2 hrs of receipt in lab.	
Oil and Grease	G	1000	G	HCl or $\text{H}_2\text{SO}_4$ to pH <2, Refrigerate $\leq 6^{\circ}\text{C}$	28 d	28 d

## Approved Standard Methods

CBOD / BOD 5 Day	Std Methods 5210-B
Ammonia, Selective Electrode Method	Std Methods 4500-NH3 D
Total Residual Chlorine, DPD Colorimetric Method	Std Methods 4500-Cl G
Total Suspended Solids, Dried at 103-105 °C	Std Methods 2540-D
Dissolved Oxygen, Membrane Electrode Method	Std Method 4500-O G
pH, Electrometric Method	Std Methods 4500-H+ B
Fecal Coliform, Membrane Filter Procedure	Std Methods 9222D
Escherichia Coli, Enzyme Substrate Test	Std Method 9223B
Escherichia Coli Membrane Filtration Procedure	EPA Method 1603
Oil and Grease	USEPA 1664A or Std Methods 5520B
Metals, general	USEPA 200, Std Methods 3111B or C, or 3120B
Volatiles (Purgeables by purge and trap)	USEPA 6210, Std Methods 624
Semi-Volatiles (Base/Neutrals and acids)	USEPA 6410, Std Methods 625
Pesticides	USEPA 6410 and 6630, Std Methods 608