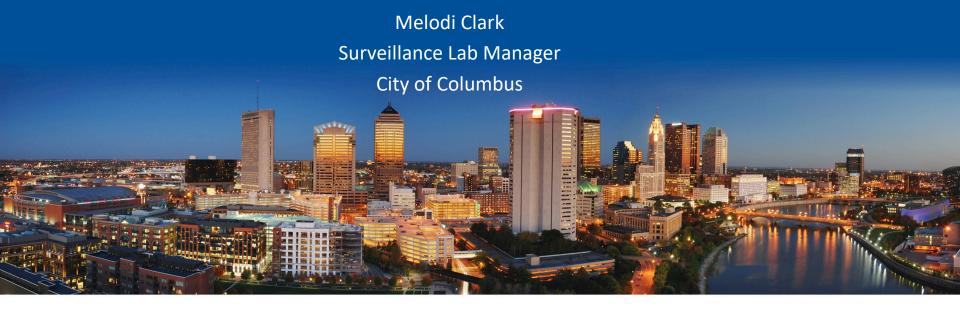
# THE IMPORTANCE OF READING YOUR NPDES PERMIT





#### **NPDES AUTHORITY?**

 Authorized by the Clean Water Act Section 402, Ohio Revised Code 6111.03

Regulated under 40 CFR, OAC 3745



#### WHO IS AFFECTED BY THE PROGRAM?

- Facility Desingnation
  - Major(Muni >/= 1MGD, Non-Muni-Rating Sheet)
  - Minor
- Types of NPDES Permits
  - Individual
  - General
    - Streamlined permitting process for specific classes or categories of discharges



# **Other Types Of Permits**

- MS4
- Pre Treatment
- Stormwater
  - All of these affect your NPDES permits in some shape or form
  - You need these permits in place to ensure your NPDES permit limits are being met



#### **5 BASIC SECTIONS-NPDES PERMIT**

- **TITLE PAGE** Permittee Name and Location, Permit Period, Authorizing Statement, Discharge Location.
- **EFFLUENT LIMITS-PART I.A**-Applicable technology-based and water quality —based standards.
- MONITORING AND REPORTING REQUIREMENTS-PART I.B & I.C-Other monitoring points-sludge, influent, streams, CSO etc. and compliance schedules
- SPECIAL CONDITIONS-PART II- Operator of Record, staffing, other requirements
- STANDARD CONDITIONS-PART III (AKA "BOILERPLATE")-Legal administrative, and procedural requirements of the permit



#### **MONITORING TABLE**

- Header: Effective Dates
- Parameters and Reporting Codes
- Limits
- Monitoring Frequencies
- Monitoring Months
- Sample Type (Grab, Composite, 24 Hour Composite...)
- Footnotes





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Effluent Characteristic	Discharge Limitations							Monitoring Requirements		
Parameter	Con-	centration (			Lo Daily	oading* kg/ Weekly	day Monthly	Measuring Frequency	Sampling Type	Monitoring Months
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	comy	Monthly	Duny	· · cokiy	monuny		**	
01220 - Chromium, Dissolved Hexavalent - ug/l		-	•	-	-	-	-	1/Month	Grab	All
31648 - E, coli - #/100 ml	-	-	284	126	-	-	-	1/Day	Grab	Summer
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All
50060 - Chlorine, Total Residual - mg/l	0.021	-	-	-	-	-	-	1/Day	Multiple Grab	Summer
50060 - Chlorine, Total Residual - mg/l	0.021	-	-	-	-	-	-	When Disch.	Multiple Grab	Winter
50092 - Mercury, Total (Low Level) - ng/l	1700	-	-	3.1	1.13		0.00205	1/2 Weeks	Grab	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	2/Year	24hr Composite	June and Oct.
61426 - Chronic Toxicity, Ceriodaphnia dubia - TUc	-	-	-	-	-	-	-	2/Year	24hr Composite	June and Oct.
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	2/Year	24hr Composite	June and Oct.
61428 - Chronic Toxicity, Pimephales promelas - TUc	-	-	-	-	-	-	-	2/Year	24hr Composite	June and Oct.
61941 - pH, Maximum - S.U.	9.0	-	-	-	-	-	-	1/Day	Continuous	All
61942 - pH, Minimum - S.U.	-	6.0	-	-	-	-	-	1/Day	Continuous	All
70300 - Residue, Total Filterable - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
80082 - CBOD 5 day - mg/l	-	-	15	10	-	9936	6620	5/Week	24hr Composite	Summer
80082 - CBOD 5 day - mg/l	-	-	24	16	-	15897	10598	5/Week	24hr Composite	Winter

#### Notes for Station Number 3PF00002001:

- \* Effluent loadings based on average design flow of 175 MGD. Winter-1: November, March and April
- Winter-2: December, January and February
- Total residual chlorine See Part II, Item J.
- Total residual chlorine, winter months "When discharging" means monitoring and reporting are required on days when the facility is chlorinating.
- Mercury See Part II, Items S, W, X and Y.
- Free cyanide See Part II, Item R.
- Whole effluent toxicity See Part II, Item U.
- pH minimum See Part II, Item Q.

#### **MONITORING TABLE DETAILS**

- Pollutant Parameters
  - MG/L, UG/L, NG/L ????
    - Contract Lab may not report in the same units; verify they can meet detection level requirements

Sample Type

Composite is not the same as 24 hour composite



#### **MONITORING TABLE DETAILS**

- Monitoring Months
  - Monitoring Frequency Changes?

#### **Footnotes**

- Bis-2-Ehtylhexyl Phathalate
- Love Level Mercury
- Free Cyanide-New Method and Detection level must be utilized!
- Biomonitoring requirements



#### **MONITORING TABLES FOOTNOTES**

REFER TO PARGRAPHS IN PART II

 YOU CANNOT USE THE MONITORING TABLE CORRECTLY WITHOUT READING PART II



#### **INFORMATION FROM FOOTNOTES**

- Bis-2-Ethylhexyl Phthalate
  - 3 Grab Composite, at least 30 minutes apart but no more than 2 hours apart, into a glass container; representative of a normal day flow. This should be refrigerated between grabs.

#### FREE CYANIDE

- Must utilize one of the new methods (ASTM D7237-10 or OIA-1677-09)
- New Lower detection/Reporting Levels



#### **INFORMATION FROM FOOTNOTES:**

- Low Level Mercury
  - One Detention time later from 006-001 sampling stations
  - Method 1631-Perfromance based method
  - Detention time is based on flow!! (should develop a chart)

- Biomonitoring
  - Ensure you are monitoring on the proper months
  - Should consider permit MOD if not in routine quarterly months or pull other monthly parameters in conjunction with bioassay



#### **NPDES PERMIT SECTIONS**

- COMPLIANCE SCHEDULES ARE GIVEN (PART I.C):
  - Pretreatment Program
    - Local Limits development and implementation

- Construction
  - E.G. Requirement for bypasses and/or overflows



#### **NPDES PERMIT SECTIONS**

- COMPLIANCE SCHEDULES (CONT.)
  - E.COLI
- PREVIOUS PERMIT VIOLATIONS (NUTRIENTS)
- NEW LIMITATION IMPOSED-TOTAL PHOSPHORUS



#### **PART I.C. DETAILS**

- Compliance Milestones-Required Report to Ohio EPA
  - Make sure you track those
  - Can you meet them?
  - Can lead to SNC

 DUE DATES BASE ON NPDES PERMIT EFFECTIVE DATE-MAKE A CALENDAR FOR YOURSELF



#### NPDES PERMIT SECTIONS: PART II OTHER CONDITIONS

OPERATOR OF RECORD-MUST BE DESIGNATED IN WRITING

 DESCRIPTION OF OUTFALLS AND MONITORING STATIONS-MAKE SURE YOU VERIFY THESE ARE ACCURATE



#### **NPDES PERMIT SECTIONS: PART II**

- 300 Station (SSO) Reporting requirements
  - 24-Hour Call Followed by 5-day report.

- Sludge Station(S) Requirements
  - Annual report (January 31)



#### **PARTII**

MONITORING TABLE FOOTNOTES

- Samples and Detention times
- Bis-2 Special sample requirements
- Low level mercury methods
- YOU CANNOT USE THE MONITORING TABLES CORRECTLY WITHOUT READING
   PART II



#### PART II SPECIAL CONDITIONS

- Pretreatment
- Bioassay
- Mercury Variance

 THESE USUALLY CONTAIN COMPLIANCE MILETONES OR REPORTING REQUIREMENTS-ADD THEM TO YOUR CALENDAR



#### **READ YOUR DRAFT PERMIT AND FACT SHEET**

- Interim and Final Tables
  - Note new/different permit limits-explained in fact sheet-Don't be afraid to ask why?
  - Coordinate with compliance schedule



#### **READ YOUR DRAFT PERMIT AND FACT SHEET**

New numeric limit? Increased frequency? What does this cost?

- Compliance schedule
  - Everything in logical order?
  - Time allotted for tasks?



#### **REVIEW BY OTHERS:**

Communicate with City Hall that you need it immediately!!

- Contract Laboratory
- Environmental Lawyer
- Others?



### **COMMENT IN WRITING BEFORE PUBLIC COMMENT PERIOD ENDS**

- Letter to central offfice
  - Courtesy copy to district contact

Ask for extension before the last day!



# **QUESTIONS?**

#### THANK YOU FOR YOUR TIME AND ATTENTION!

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