

THE TECHNICAL REVIEW CRITERIA

By Laura Davis and Adam Shealy

SIGNIFICANT NONCOMPLIANCE

[40 CFR 403.8(f)(2)(viii)]

IU violations that meet one or more of the following criteria:

- Chronic violations – 66 percent or more during a 6-month period exceed
- Technical Review Criteria (TRC) violations - 33 percent or more during a 6-month period exceed the numeric standard multiplied by the applicable TRC
 - 1.4 for BOD,TSS, fats, oil, and grease
 - 1.2 for all other pollutants except pH
- Any other violation of a Pretreatment Standard or requirement that the POTW determines has caused , alone , or in combination with other Discharges, Interference or Pass Through(including endangering the health of POTW personnel or the general public)
- Any discharge of a pollutant that has cause imminent endangerment to human health, welfare or to the environment or has resulted in the POTWs exercise of its emergency authority to halt or prevent such a discharge

SIGNIFICANT NONCOMPLIANCE

[40 CFR 403.8(f)(2)(viii)]

- Failure to meet, within 90 days after the schedule date, a compliance schedule date, a compliance schedule milestone contained in a local control mechanism or enforcement order for starting construction, completing construction or attaining final compliance;
- Failure to provide, within 45 days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules;
- Failure to accurately report noncompliance
- Any other violation or group of violations, which may include a violation of Best Management Practices, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program.

SIGNIFICANT NONCOMPLIANCE

[40 CFR 403.8(f)(2)(viii)]

IU violations that meet one or more of the following criteria:

- Chronic violations – 66 percent or more during a 6-month period exceed (FREQUENCY)
- Technical Review Criteria (TRC) violations - 33 percent or more during a 6-month period exceed the numeric standard multiplied by the applicable TRC (MAGNITUDE)
 - 1.4 for BOD,TSS, fats, oil, and grease
 - 1.2 for all other pollutants except pH
- Any other violation of a Pretreatment Standard or requirement that the POTW determines has caused , alone , or in combination with other Discharges, Interference or Pass Through(including endangering the health of POTW personnel or the general public)
- Any discharge of a pollutant that has cause imminent endangerment to human health, welfare or to the environment or has resulted in the POTWs exercise of its emergency authority to halt or prevent such a discharge

Judging Compliance with an Average Limit

Things You will need:

Effluent Data from IU DMR Data and the IU Permit

- 1) Determine what type of Average Limit you have
- 2) Calculate the Average
- 3) Compare the Calculated Result to the Average Permit Limit
- 4) If the Calculated Result is Less than your permit limit, Compliance with the Average Permit Limit has been Achieved.

Judging Compliance with an Average Limit

Things to be aware of:

Monthly Average means a Calendar Month – Not a 30-day period

EPA says ONE SAMPLE CAN BE A MONTHLY AVERAGE

Most Average Limits are Monthly. However, you can have a 4-Day Average Permit Limit, a Quarterly Average Permit Limit or a Six-Month Average Permit Limit.

Judging Compliance with a Daily Maximum Limit

- 1) Compare the Result Received to the Daily Maximum Permit Limit
- 2) If the Reported Result is given as Equal to or Less than (\leq) a number and that number is less than your permit limit, Compliance with the Daily Maximum Limit has been Achieved.

TRC VIOLATION

If there are four permit limits:

- 1-Daily Max. Conc.
- 2-Monthly Average Conc.
- 3-Daily Max. Loading
- 4-Monthly Average Loading

Then you must calculate TRC for all four permit limits.

Technical Review Criteria (TRC) violations - 33 percent or more during a 6-month period exceed the numeric standard

1.4X for BOD, TSS, fats, oil, and grease

1.2 for all other pollutants except pH

Example: Facility A

PERMIT LIMITS - BOD

CONCENTRATION (mg/L)		LOADING (lbs/day)	
<u>Average</u>	<u>Maximum</u>	<u>Average</u>	<u>Maximum</u>
250	250	42	63

TRC CALCULATION 1.4 X LIMITS - BOD

CONCENTRATION (mg/L)		LOADING (lbs/day)	
<u>Average</u>	<u>Maximum</u>	<u>Average</u>	<u>Maximum</u>
350	350	59	88

TRC (MAGNITUDE) PERMIT VIOLATIONS REPORTED BY IU - BOD

<u>MONTH</u>	CONCENTRATION (mg/L)				LOADING (lbs/day)			
	Avg.	≥ 1.4 x limit	Max.	≥ 1.4 x limit	Avg.	≥ 1.4 x limit	Max.	≥1.4 x limit
June 2018	685	YES	750	YES	101	YES	225	YES
June 2018			620	YES			196	YES
September 2018	570	YES	570	YES	112	YES	187	YES

TRC (MAGNITUDE) PERMIT VIOLATIONS REPORTED BY POTW - BOD

<u>MONTH</u>	CONCENTRATION (mg/L)				LOADING (lbs/day)			
	Avg.	≥ 1.4 x limit	Max.	≥ 1.4 x limit	Avg.	≥1.4 x limit	Max.	≥1.4 x limit
June 2018	890	YES	890	YES	131	YES	131	YES

IS FACILITY A IN SIGNIFICANT NONCOMPLIANCE FOR BOD?

Step 1) We have had a bunch of violation but we need to first know how many samples were collected

MONTH	SAMPLING DATES		NOTES
	POTW	IU	
MAY	-	5/2/18 MP	
JUNE	6/8/18 SEMI-ANNUAL	6/7/18 MP 6/26/18 BOD and Zinc	
JULY	-	7/03/18 MP	
AUGUST	-	8/02/18 MP 8/15/18 TSS	
SEPTEMBER	-	9/27/18 MP	
OCTOBER	-	10/02/18 MP 10/23/18 Zinc	

IS FACILITY A IN SIGNIFICANT NONCOMPLIANCE FOR BOD?

Step 2) Look at each permit limit individually

BOD - MONTHLY LOADING AVERAGE LIMIT (MLAL)

MONTH	# OF SAMPLES COLLECTED		TOTAL # OF SAMPLES	# OF EXCEEDANCES ABOVE TRC
	POTW	IU		
MAY	0	1	1	0
JUNE	1	1	2	2
JULY	0	1	1	0
AUGUST	0	1	1	0
SEPTEMBER	0	1	1	1
OCTOBER	0	1	1	0
TOTAL			7	3

43% (3/7) OF SAMPLES EXCEEDED THE TRC - FACILITY IS IN SIGNIFICANT NON-COMPLIANCE

IS FACILITY A IN SIGNIFICANT NONCOMPLIANCE FOR BOD?

Step 2) Look at each permit limit individually

BOD - MONTHLY AVERAGE CONCENTRATION LIMIT (MACL)

MONTH	# SAMPLES COLLECTED		TOTAL # SAMPLES	# EXCEEDANCES ABOVE TRC
	POTW	IU		
MAY	0	1	1	0
JUNE	1	1	2	2
JULY	0	1	1	0
AUGUST	0	1	1	0
SEPTEMBER	0	1	1	1
OCTOBER	0	1	1	0
TOTAL			7	3

43% (3/7) OF SAMPLES EXCEEDED THE TRC - FACILITY IS IN SIGNIFICANT NON-COMPLIANCE

CHRONIC SNC

If there are four permit limits:

- 1-Daily Max. Conc.
- 2-Monthly Average Conc.
- 3-Daily Max. Loading
- 4-Monthly Average Loading

Then you must calculate chronic SNC for all four permit limits.

Chronic violations – 66 percent or more during a 6-month period exceed (FREQUENCY)

**CHRONIC SNC IS FOR ALL PERMIT VIOLATIONS
NOT JUST TRC VIOLATIONS**

IS FACILITY A IN CHRONIC SIGNIFICANT NONCOMPLIANCE FOR BOD?

BOD - MONTHLY AVERAGE CONCENTRATION LIMIT (MACL)

MONTH	# OF SAMPLES COLLECTED		TOTAL # OF SAMPLES	# OF EXCEEDANCES
	POTW	IU		
MAY	0	1	1	0
JUNE	1	1	2	2
JULY	0	1	1	0
AUGUST	0	1	1	0
SEPTEMBER	0	1	1	1
OCTOBER	0	1	1	0
TOTAL			7	3

43% (3/7) OF SAMPLES VIOLATED THE PERMIT LIMIT - FACILITY NOT IN CHRONIC SIGNIFICANT NON-COMPLIANCE



TECHNICAL REVIEW CRITERIA REPORT

POTW FACILITY: UNNAMED POTW IU: UNNAMED IU

DATA REVIEWED: MAY – OCTOBER 2018

REPORT CONTENTS:

SECTION 1 - SUMMARY OF FINDINGS

SECTION 2 - OTHER PERMIT/SUO/ERG VIOLATIONS

SECTION 3 - SAMPLES COLLECTED DURING EVALUATION PERIOD

SECTION 4 - TRC EVALUATION FOR BOD

SECTION 5 - TRC EVALUATION FOR TSS

SECTION 6 - TRC EVALUATION FOR ZINC

SECTION 7 - SNC AND CHRONIC SNC EVALUATION FOR BOD

SECTION 8 - SNC AND CHRONIC SNC EVALUATION FOR TSS

SECTION 9 - SNC AND CHRONIC SNC EVALUATION FOR ZINC

REPORTED BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____