

DEPT. OF ENVIRONMENT AND ENERGY

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22-004

January 2022

Guidance for Industrial Storm Water NER920000 – Additional Implementation Measures (AIM)

All facilities covered under the NDEE Industrial Storm Water General Permit NER920000 with benchmark monitoring requirements are subject to Additional Implementation Measures (AIM) as described in Part 3.2 of the permit. AIM outlines the corrective actions and steps required for **benchmark exceedances**. AIM is a three-level response that provides a follow-up process. AIM Levels are sequential and cannot be skipped. The AIM requirements apply on a pollutant parameter-specific, per discharge point basis. See the steps, processes, and exceptions below.

BASELINE STATUS

- All facilities with benchmark monitoring requirements start at baseline status once their authorization is received.
- Quarterly benchmark monitoring for applicable sectors begins in the first year of coverage. See Part 6.2 and 6.2.2 of the permit. Also see applicable sector(s) in Part 8.
- If the annual average for a pollutant parameter doesn't exceed the benchmark, you can stop
 monitoring for the parameter until the 4th year of permit coverage (starting again in quarter 13 of
 permit coverage). See part 6.2.2.2 of the permit.
- If the annual average (or average for four quarters) for a parameter exceeds the benchmark, move to <u>AIM Level 1</u>.
- Or if a single sample, or the sum of any quarterly sample results within the year is four times the pollutant parameter benchmark, move to <u>AIM Level 1</u>. This indicates that the annual average exceedance is mathematically certain and corrective action is needed.

AIM LEVEL 1

- Once in AIM Level 1 you must:
 - Immediately review your Storm Water Pollution Prevention Plan (SWPPP) and your storm water control measures. Determine if modifications are necessary to meet the parameter benchmark.
 - Implement additional measures that would reasonably be expected to bring your exceedances below the parameter's benchmark threshold.
 - Implement modifications or control measures within 14 days of receipt of sampling results.
 - If it is infeasible to implement modifications or control measures within 14 days, document why and implement modification(s) within 45 days.
 - Or if you determine nothing further needs to be done with your storm water control measures, document your reasoning.

- After completing the responses above, you must continue quarterly benchmark monitoring for the next 4 quarters. Sampling is only required for the pollutant parameter(s) that caused a benchmark exceedance.
- If the average of the 4 additional quarters do not exceed the benchmark, you return to <u>Baseline</u> <u>Status</u> and can discontinue sampling until the 4th year of permit coverage (starting again in quarter 13 of permit coverage). See part 6.2.2.2 of the permit.
- If the average of the 4 additional quarters continues to exceed the benchmark for the parameter, move to <u>AIM Level 2</u>.
- Or if a single sample or the sum of any additional quarterly sample results is over the benchmark by more than four times for a parameter, move to <u>AIM Level 2</u>. This indicates that the annual average exceedance is mathematically certain and corrective action is needed.

AIM LEVEL 2

- Once in AIM Level 2 you must:
 - Immediately review your SWPPP and your storm water control measures.
 - Implement additional pollution prevention/good housekeeping storm water controls beyond what you did in your AIM Level 1 response. Consider good engineering practices and measures that would reasonably be expected to bring your exceedances below the parameter's benchmark.
 - Implement additional pollution prevention/good housekeeping storm water control measures within 14 days of receipt of sampling results.
 - If it is infeasible to implement modifications or control measures within 14 days, document why and implement modifications or control measures within 45 days. NDEE may grant and extension beyond 45 days if necessary.
- After completing the responses above, you must continue quarterly benchmark monitoring for the next 4 quarters. Sampling is only required for the pollutant parameter(s) that caused a benchmark exceedance.
- If the average of the 4 additional quarters do not exceed the benchmark, you return to <u>Baseline</u> <u>Status</u> and can discontinue sampling until the 4th year of permit coverage (starting again in quarter 13 of permit coverage). See part 6.2.2.2 of the permit.
- If the average of the 4 additional quarters continues to exceed the benchmark for the parameter, move to <u>AIM Level 3</u>.
- Or if a single sample, or the sum of any additional quarterly sample results is over the benchmark by more than four times for a parameter, move to <u>AIM Level 3</u>. This indicates that the annual average exceedance is mathematically certain and corrective action is needed.

AIM LEVEL 3

- Once in AIM Level 3 you must:
 - Install structural source controls and/or treatment controls.
 - The controls or treatment technologies should be appropriate for the pollutant that is causing the benchmark exceedances. They should be more rigorous than the modifications you previously tried.
 - Identify the control measures and installation schedule **within 14 days** of receipt of sampling results.
 - Install the selected control measures within 60 days.
 - If it is infeasible to implement modifications or control measures within 60 days, document why and implement modifications or control measures within 90 days. NDEE may grant and extension beyond 90 days if necessary.

- After completing the responses above, you must continue quarterly benchmark monitoring for the next 4 quarters. Sampling is only required for the parameter(s) that caused a benchmark exceedance.
- If the average of the 4 additional quarters do not exceed the benchmark, you return to <u>Baseline</u> <u>Status</u> and can discontinue sampling until the 4th year of permit coverage (starting again in quarter 13 of permit coverage). See part 6.2.2.2 of the permit.
- If the average of the 4 additional quarters continues to exceed the benchmark for the parameter, you remain at <u>AIM Level 3</u> and NDEE may require you to apply for an individual permit.
- Or if a single sample, or the sum of any additional quarterly sample results is over the benchmark by more than four times for a parameter, you remain at <u>AIM Level 3</u> and NDEE may require you to apply for an individual permit.

EXCEPTIONS

- You may qualify for an exception if you demonstrate that the benchmark exceedance is due to:
 - Natural background pollutant levels.
 - Run-on from a neighboring source.
 - Caused by an abnormal event.
- You may also qualify for an exception if you demonstrate that the benchmark exceedance does not result in any exceedance of water quality standards.
- See Part 3.2.6 of the permit for additional information on exceptions.

TIPS and REMINDERS

- Submit any corrective action documentation to NDEE within **30 days**. See Part 3.3 of the permit.
- Follow the reporting requirements if necessary, as described in Part 7.3 of the permit
- Follow the recordkeeping requirements of Parts 5.4 and 7.4 of the permit.
- It is possible to be at different AIM Levels for each benchmark parameter required for your sector.
- AIM responses must be implemented at substantially identical outfalls, unless you demonstrate that benchmark thresholds aren't being exceeded at those discharge points.
- EPA's AIM Calculator can help you track your status for each parameter and can be useful documentation. See link below.
- EPA's Fact Sheet series provides suggested best management practices and storm water controls per sector. See link below.
- See additional guidance sources in Part 2.1.2.5 of the permit.

https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-fact-sheets-and-guidance *

*This document contains link to non-NDEE websites.

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BASELINE STATUS		 All facilities start in baseline status Begin year-1 quarterly benchmark monitoring, if applicable 			
AIM LEVEL	BENCHMARK MONITORING TRIGGER	RESPONSES	DEADLINES	RESET TO BASELINE	
AIM Level 1	In baseline and annual average is exceeded (or fewer than 4 samples but exceedance is certain)	 Review SWPPP / storm water control measures Implement additional storm water control measures, if necessary Continue monitoring 	14 days; if infeasible, 45 days	• AIM responses have been	
AIM Level 2	In Level 1 and annual average is exceeded (or fewer than 4 samples but exceedance is certain)	 Implement pollution prevention good housekeeping measures Continue monitoring 	14 days; if infeasible, 45 days	met • Continued quarterly benchmark monitoring	
AIM Level 3	In Level 2 and annual average is exceeded (or fewer than 4 samples but exceedance is certain)	Install permanent controlsContinue monitoring	Identify schedule in 14 days; install in 60 days, up to 90 days	does not indicate an exceedance	

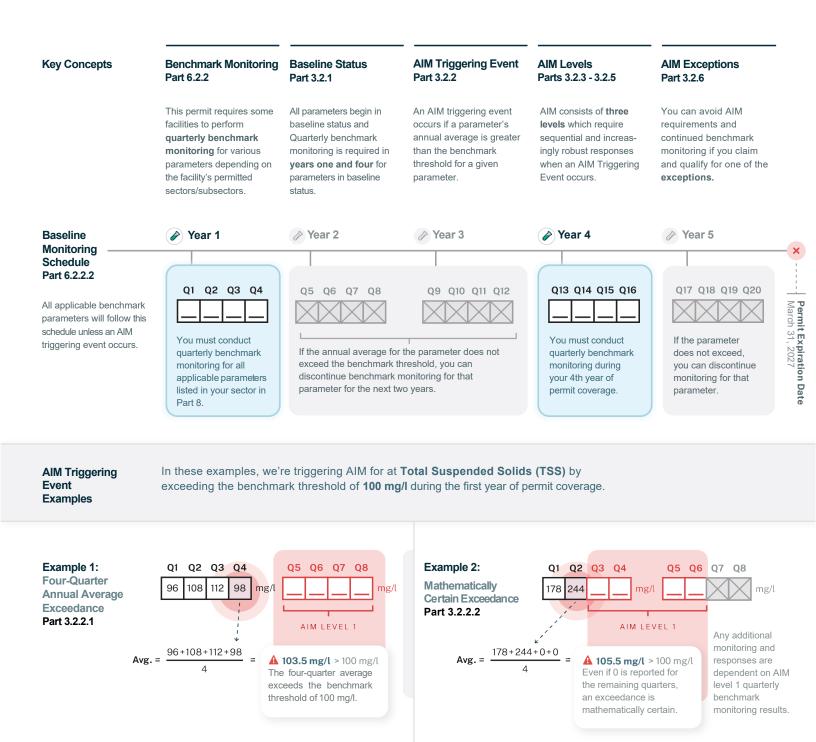
 Natural background sources Run-on sources One-time abnormal event Discharge does not result in water quality exceedance
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Introduction to AIM

NEBRASKA DEPT. OF ENVIRONMENT AND ENERGY

Additional Implementation Measures (AIM) for the 2022 Industrial Storm Water General Permit NER920000

Additional Implementation Measures, or AIM is a new set of requirements introduced in the 2022 Industrial Storm Water permit. It allows NDEE to require incremental and increasingly stringent responses to exceedances of **benchmark thresholds**.



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See reverse side for examples on how benchmark monitoring will work with AIM.

AIM Examples

In these examples, we're looking at **Total Suspended Solids (TSS)** monitoring since its benchmark threshold of **100 mg/I** makes it easy to visualize average calculation.

