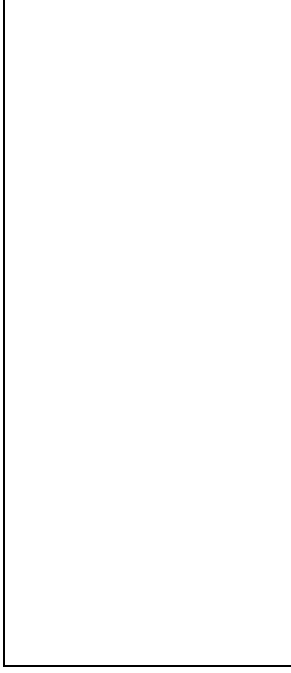


UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OECA MC 2225A
WASHINGTON DC 20460

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Please Forward to Responsible Office.**



**IMPORTANT NOTICE TO NPDES PERMITTEES
DMR-QA Study 28 Announcement
RESPONSE REQUIRED BY April 18, 2008**

DMR-QA STUDY 28

IMPORTANT NOTICE TO DESIGNATED NPDES PERMITTEES

Immediately verify receipt of DMR-QA Study 28 by either filling out the form below and mailing this page to:

PATRICK YELLIN
U.S. EPA OECA MC 2225A Room 5109B
1200 PENNSYLVANIA AVENUE, N.W.
WASHINGTON, DC 20460

*The mailed form must be postmarked on or before **April 18, 2008**

NPDES PERMITTEE ADDRESS VERIFICATION FORM (AVF)

Discharge Monitoring Report – Quality Assurance (DMR-QA) Study 28

Please provide corrections to the mailing address where all DMR-QA paperwork should be sent.

NPDES Permit Number

--	--	--	--	--	--	--	--	--

(2-character State Code + 7 digit Permit Code as shown on the mailing label, for example CA1234567)

Company Name _____

Contact Name _____ Title _____

Mailing Address _____

City _____ State _____ Zip Code _____

Phone (____) _____ Fax (____) _____

E-Mail Address _____

Type of Facility (Federal, State, Local, or Commercial/Private) _____

OR you may verify receipt electronically by sending an e-mail, on or before **April 18, 2008** to dmrqa@epa.gov. A separate response is required for each NPDES permit. Please CC your state or regional DMR-QA coordinator. The e-mail should be composed in the following manner:

1. Subject line should contain **ONLY** the NPDES Permit number (2-character State Code + 7-digit Permit Code as shown on the mailing label, for example CA1234567). If any of the contact information located on the Study's mailing label is incorrect, please place a "C" after your NPDES permit number in the subject line of the email (e.g. CA1234567 C). Other information is not needed on the subject line.
2. If there have been any changes to the mailing label on this announcement, the body of the e-mail should contain a list including: Company name, Contact Name/Title, Mailing Address, City, State, Zip Code, Facility Type (select one: federal, state, local or commercial/private). Otherwise, you may simply put "No changes" in the body of the email.
3. Submit any additional correspondence as a **SEPARATE** e-mail to yellin.patrick@epa.gov.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
ENFORCEMENT AND
COMPLIANCE ASSURANCE

Mar 10, 2008

Dear NPDES Permit Holder:

This letter announces Discharge Monitoring Report - Quality Assurance (DMR-QA) Study 28. Your participation in DMR-QA plays a key role in monitoring the quality of data used to ensure the safety of the nation's waters. This letter initiates chemistry, microbiology and Whole Effluent Toxicity (WET) testing for Study 28. The study schedule requires that all actions under Study 28 be completed by the end of calendar year 2008. Refer to pages 2-3 of the enclosed instructions for details on what you, as the permit holder receiving this letter, must do to complete this study.¹ Again this year, test samples must be obtained from accredited commercial Proficiency Testing (PT) Providers (page 10 of enclosure).

DMR-QA covers major and selected minor permit holders under the Clean Water Act's National Pollutant Discharge Elimination System (NPDES). The DMR-QA study is designed to evaluate the entire process you use to routinely report results in your Discharge Monitoring Reports. Therefore, the study addresses the analytic ability of the laboratories that perform the chemical, microbiological, and WET analyses required in your NPDES permits and your ability to properly report these results in your Discharge Monitoring Reports.

If your organization is a small business, you may find helpful compliance assistance resources and tools on EPA's website at www.epa.gov/sbrefa.

As the permit holder receiving this letter, you are responsible for obtaining ungraded results of DMR-QA tests performed by your in-house or contract laboratories and forwarding these results to your state DMR-QA coordinator and the PT Provider that supplied the samples to each of your laboratories. You are to use the same method for submitting the results as you utilize for your monthly Discharge Monitoring Reports. Contact your state DMR-QA coordinator regarding their policy on receiving the ungraded data package. You are responsible for ensuring that your state DMR-QA coordinator receives a final PT study report from an approved PT Provider for every DMR-QA analyte that is also on your NPDES permit. This requirement can be fulfilled by the submission of an electronic or hardcopy report. After the PT Provider has graded the results and returned them to you, if any of your provider-graded results are returned as "Not Acceptable", you are responsible for submitting a corrective action report to your state DMR-QA coordinator.

What do I need to have tested and reported?

For the chemical and microbiological tests under DMR-QA, you are responsible only for those analytes that are both in your permit and included in Study 28. The chemical and microbiological analytes in Study 28 are listed in the "Chemistry/Microbiology/Analyte Checklist" (page 8 of enclosure). Microbiology testing

¹ EPA is authorized to require this information under Section 308 of the Clean Water Act, 33 U.S.C. § 1318, in order to carry out its responsibilities for protecting our nation's water from pollution. This information is enforceable under 33 U.S.C. § 1319. The Agency considers the information submitted to be effluent data and therefore it may not be entitled to confidential treatment in accordance with Agency confidential business information (CBI) regulations at 40 CFR 2.302(f).

for Study 28 includes *E. coli* testing by membrane filter or multiple tubes, as well as fecal and total coliforms by membrane filter or multiple tubes.

For the WET tests under DMR-QA, you are responsible only for test organisms that are both in your permit and included in Study 28. You are required to participate even if the test conditions (e.g., time of acute test, renewal/non-renewal, synthetic seawater matrix, etc.) in your permit do not exactly match those in Study 28. If they do not exactly match, refer to “WET Testing Laboratory Instructions” (pages 6-7 of enclosure).

Report results on EPA Form 6400-01 (enclosed). The form is also available online for you to fill out on screen and print for submission. The form is at www.epa.gov/compliance/monitoring/programs/cwa/dmr/.

Where do laboratories get test samples?

Laboratories (in-house and contract) will need to order required DMR-QA 28 study samples by May 1, 2008, from an accredited PT Provider which is appropriately accredited by the American Association for Laboratory Accreditation (A2LA). A2LA has been designated a Proficiency Testing Oversight Body (PTOB)/Proficiency Testing Provider Accreditor (PTPA) by The NELAC Institute (TNI). A list of chemistry, microbiology and WET accredited PT Providers is on page 10 of the enclosure. The PT Providers supply the proficiency test samples and instructions, evaluate the results reported to them by the testing facilities, and prepare an evaluation report for each Permittee Data Package. These evaluation reports are sent back to you and your state DMR-QA coordinator. If you will be using the Water Pollution (WP) test to satisfy some or all of your DMR-QA requirements for Study 28, EPA will accept only those WP results for WP studies ending on or after May 1, and before August 29, 2008.

How do I report receipt of this notice?

All permit holders with e-mail capabilities are encouraged to submit their verification forms by e-mail by following the instructions on the front inside cover of this package. Of course, you may continue to send the “NPDES Permittee Address Verification Form” by regular mail, if you wish.

Further information

For any additional questions, contact your state or EPA regional DMR-QA coordinator whose name, address, and phone number are listed in the enclosure. Reference your NPDES permit and telephone number on all correspondence. The coordinators play an important role in reviewing test results and providing needed follow-up or guidance. Questions or comments on the national program can be addressed to Patrick Yellin, national DMR-QA coordinator, at e-mail address: dmrqa@epa.gov, or by mail at the address listed in “State and EPA Regional DMR-QA Coordinators” (pages 11-13 of enclosure).

Thank you for cooperating in this national program to assure the quality of NPDES self-reporting data.

Sincerely,

/s/

Michael M. Stahl, Director
Office of Compliance

Enclosure: DMR-QA Study 28 Instructions

DMR-QA Study 28 Instructions

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NPDES Permittee Instructions

DMR-QA Study 28

1. Immediately confirm receipt of this package to U.S. EPA. Your response is required to ensure the package was properly received and recognized, and to verify that your mailing information is correct. You must submit your response no later than April 18, 2008. Follow the instructions inside the front cover. If you have an inactive permit, please contact your state DMR-QA coordinator immediately.
2. **DMR-QA samples must be analyzed by the same individuals and or laboratories that routinely perform the analysis for reporting on your Discharge Monitoring Report.**

Chemistry and Microbiology Analyses

If you routinely perform any Chemical or Microbiological analyses at your in-house laboratory, such as pH, TRC, *E. coli*, fecal/total coliforms, etc., you must conduct those same analyses, for DMR-QA Study 28, at your in-house laboratory. If contract labs perform Chemical or Microbiological analyses for your permit, they must perform those analyses for the DMR-QA study.

WET Analyses

If you routinely perform WET testing on *Pimephales promelas*, *Ceriodaphnia dubia*, *Mysidopsis bahia*, etc. at your in-house laboratory, you must perform Study 28 WET testing at your in-house laboratory. If contract labs perform WET testing for your permit, they must perform those same analyses for DMR-QA Study 28.

3. Send the copies of the appropriate instructions from this package to your in-house and to each contract laboratory. Make certain your in-house and/or contract laboratories understand and complete all requirements. Inform each laboratory to perform the appropriate analyses and submit their results to you. The instructions are as follows:

Chemistry and Microbiology Analyses

- a) "Chemistry and Microbiology Laboratory Instructions" (page 5)
- b) "Chemistry/Microbiology Analyte Checklist" (page 8).
- c) "NELAC Designated PTOB/PTPA Accredited PT Providers" table (page 10).

WET Analyses

- a) "WET Testing Laboratory Instructions" (pages 6-7)
- b) "WET Organisms/Test Conditions/End Points Checklist" (page 9).
- c) "NELAC Designated PTOB/PTPA Accredited PT Providers" table (page 10).

Helpful Hint: If you have more than one laboratory analyzing DMR-QA Study 28 samples, direct all labs to order their samples from the same PT Provider, if possible. The study results are evaluated by the PT Provider that manufactured the samples, so a common source for all samples would be advantageous to you.

4. Each laboratory must use the U.S. EPA-assigned Laboratory Code on all reported results. If you are not sure of your U.S. EPA Lab code, check your previous DMR-QA reports. If you need a new U.S. EPA Lab code or want to confirm your old U.S. EPA Lab code call, Fax, or write as soon as you determine you need a number, to:

Mr. Charles Feldmann
US EPA
26 W. Martin Luther King Drive, M/S 140
Cincinnati, OH 45268
Tel: (513) 569-7671
Fax: (513) 569-7191

Please submit requests for lab codes at least one week before the study due date to allow time for response.

5. Order samples required by your permit and included in DMR-QA Study 28. Your in-house and contract laboratories must order PT samples from a PTOB/PTPA accredited PT Provider by **May 1, 2008**.

Your in-house or contract lab may want to use your DMR-QA Study results as one of their Proficiency Testing (PT) rounds for state certification. To do so, contact your state DMR-QA coordinator to determine if the state will accept the results from a standard DMR-QA Study for your PT round. Some states will not accept the standard DMR-QA results. If this is the case, you can elect to use an approved Water Pollution (WP) Study for generating

results for DMR-QA Study 28. WP studies are only valid for DMR-QA Study 28 if the WP Study meets the following requirements:

- a) A WP Study cannot close before **May 1**, or after **August 29, 2008**.
- b) Samples are offered by a NELAC designated PTOB/PTPA accredited Provider.

If your in-house or contract lab chooses to use a WP study, please inform the laboratory that you must report all data to the PT Provider by their published WP Study close date, even if it is prior to the DMR-QA deadline of **August 29, 2008**. (Notify the PT Provider that WP is being used for DMR-QA and provide the NPDES permit number). You may not extend a WP Study close date to **May 1, 2008** to meet the DMR-QA requirement.

ONLY REPORT RESULTS FOR THOSE ANALYTES COVERED BY YOUR NPDES PERMIT.

6. Instruct labs to perform analyses within the deadlines defined by the PT Provider.
7. Have your in-house and/or contract laboratories transmit their results to you using the same procedure used for the monthly Discharge Monitoring Reports (DMRs). For instance, if you submit your monthly DMRs electronically, you must use an electronic method to receive and submit the results. Otherwise, use the provider's paper-based system.

Helpful Hint: Set a date by which test result data must be mailed or electronically transmitted to you by your lab(s) that will allow you enough time to review and complete the final data packages and submit them to your PT Provider by August 29, 2008.

8. Complete the information in this study package located on the pages entitled "NPDES Permittee Data Report Form" (pages 14-16) or the PT Provider supplied forms for DMR-QA Study 28.
9. Make copies of the three-page "NPDES PERMITTEE DATA REPORT FORM" or the PT Provider supplied forms and attach a set of copies to the data report forms received from each of your laboratories. Include each laboratory's completed "Chemistry/Microbiology/Analyte" and "WET Organisms/Test Conditions/End Points" checklists (pages 8-9) with their results and the "NPDES Permittee Data Report Form". Make sure that your NPDES permit number and the laboratory's U.S. EPA Lab code is on each data report form. This creates a **Permittee Data Package** that is ready for submission to each PT Provider you or your lab(s) used.
10. Your Permittee Data Package must be assembled and reported to your state DMR-QA coordinator and PT Provider using the same paper or electronic procedure used for routine DMRs. **You must indicate in the data package sent to your state DMR-QA coordinator, how the data package was submitted to the PT Provider (either electronically or a hard copy)**. Contact your state DMR-QA coordinator regarding the state's policy on receiving the un-graded data package if you have questions, as some state DMR-QA coordinators may require only the NPDES Permittee Data Report Form.
11. By **August 29, 2008**, mail or electronically submit Permittee Data Packages to the PT Provider that produced the PT samples used for your reports. All reports must be received by the PT Providers and state DMR-QA coordinators on or before August 29, 2008. Send the signed original Permittee Data Package, for each of your permits, to your state DMR-QA coordinator. Maintain a copy of each complete Permittee Data Package for your records.
12. By **October 24, 2008**, PT Provider-graded test results will be sent to the permittees and state DMR-QA coordinators. Review these results for completeness and accuracy.
13. By **November 14, 2008**, each PT Provider must send their DMR-QA Study 28 and applicable WP study discussion reports, and an electronic file with all permittee results and evaluations, to U.S. EPA (Patrick Yellin) and to the state and regional DMR-QA coordinators.
14. Investigate any discrepancies or "Not Acceptable" evaluations reported by your PT Provider. You must identify and report the causes and your system changes to correct the discrepancies and avoid their reoccurrence. If necessary, purchase samples and perform the verification analysis before **December 5, 2008**. The report must include the results of any verification analysis performed. This report must be sent to your state DMR-QA coordinator by **December 5, 2008**. Submit the report so the delivery and receipt of the report can be tracked.
15. Maintain a copy of all completed forms for your records for at least three years.

Checklist and Schedule for DMR-QA Study 28

Deadline/Last Date*	Permittee/In House Labs	Contract Labs	PT Providers
April 18, 2008	<input type="checkbox"/> Respond to the EPA by e-mail or postal mail Address Verification Form (inside cover of this package) to confirm receipt of Notice Study 28		
May 1, 2008 To August 22, 2008	<input type="checkbox"/> Order test samples completed <input type="checkbox"/> Study 28 begins <input type="checkbox"/> Completed PT Provider's Data Report Form and NPDES Permittee Data Report Form <input type="checkbox"/> Make copies of the Permittee Data Package (PT Provider's Data Report Form and NPDES Permittee Data Report Form) <input type="checkbox"/> Check with your state DMR-QA coordinator regarding the state's policy on receiving un-graded <u>Permittee Data Package</u>	<input type="checkbox"/> Order test samples completed <input type="checkbox"/> Study 28 begins <input type="checkbox"/> Completed and sent Data Report to permittees	
August 29, 2008	<input type="checkbox"/> Mail/e-mail a signed copy of the un-graded Permittee Data Package to each PT Provider used. <input type="checkbox"/> Send the original Permittee Data Package to state DMR-QA coordinator if it is required by the state <input type="checkbox"/> Keep 1 copy of the Permittee Data Package for your records		
October 24, 2008			Send PT Provider-graded test results, for each individual permit, to the: <input type="checkbox"/> - Permittee <input type="checkbox"/> - State and EPA regional DMR-QA coordinators
November 14, 2008			<input type="checkbox"/> Send DMR-QA Study 28 and applicable WP study discussion reports, and an electronic file with all permittee results and evaluations, to EPA Headquarters
December 5, 2008	<input type="checkbox"/> Negotiate any "Not Acceptable" data for corrective action with state DMR-QA coordinator <input type="checkbox"/> Submit a completed and signed corrective action report to your state DMR-QA coordinator		

* All materials must be received on or before the date provided.

Chemistry and Microbiology Laboratory Instructions

DMR-QA Study 28

Your laboratory has been designated to participate in DMR-QA Study 28 by a National Pollutant Discharge Elimination System (NPDES) permittee. The permittee is required to report sample data produced by laboratories that routinely perform specified chemistry and microbiology analyses for their DMR purposes.

1. Each of the permittees for whom you provide DMR data to during the year will determine which analyses you are to perform by checking the appropriate boxes on the enclosed checklist (page 8).
2. Order DMR-QA Study 28 samples by **May 1, 2008**. To acquire the DMR-QA Study 28 chemistry and microbiology samples, arrange to purchase them from a TNI designated PTOB/PTPA accredited provider listed on page 10.
3. Record your analytical data and EPA Lab code on the Data Reporting Forms received with your samples. Be sure to follow the PT Provider's instructions and deadlines received with these samples. Be aware that the permittee must follow the same data reporting procedures used for their monthly DMR reports.
4. Mandatory use of the U.S. EPA-assigned Laboratory Code on all reported results is required. If you are not sure of your U.S. EPA Lab code, check your previous DMR-QA reports. If you need a new U.S. EPA Lab code or need to check on your old U.S. EPA Lab code call, Fax, or write Mr. Charles Feldmann as soon as you determine you need a number (contact information can be found on page 2, step #4).
5. Send each permittee the data they requested. Provide each of your permittees the original data or a copy of the PT Provider's Data Reporting Forms. E-mailed results may not be sent as a link, but must contain the individual permittee's results in an e-mail that is unique to each individual permittee and that can be signed by the permittee. Make sure you provide the DMR-QA Study 28 or Water Pollution (WP) study results to your permittees by **August 22, 2008**, to allow sufficient time for the permittees to review and assemble their data packages and transmit them to the appropriate PT Provider and state DMR-QA coordinator by **August 29, 2008**.

Helpful Hint: If you must participate in a WP study for the same analytes to qualify for state wastewater laboratory certification, you may be able to utilize the WP study to meet the requirements of the DMR-QA study, if all of the following conditions are met:

- a) The WP requirements satisfy the permittee's DMR-QA obligations.
- b) The PT providers who supply the DMR-QA samples also provide WP samples.
- c) The WP study does not close prior to **May 1, 2008**.
- d) The WP performance period ends on or before **August 29, 2008**.
- e) The PT providers will show the WP results of each permittee's regulated analytes on the DMR-QA reporting form.

Note: Check with your state DMR-QA coordinator and the PT Provider to verify that such a plan is acceptable to them.

6. Maintain a copy of all completed order forms for your records.

WET Testing Laboratory Instructions

DMR-QA Study 28

Your laboratory has been designated to participate as a contract laboratory in DMR-QA Study 28 by a National Pollutant Discharge Elimination System (NPDES) permittee. The permittee is required to report sample data produced by laboratories that routinely perform analyses for their DMR purposes. DMR-QA is designed to test the ability of a testing facility to conduct the required testing procedures included in NPDES permits and to follow the directions associated with required test methods. WET testing is required if the permittee is required to conduct WET testing under their NPDES permit during 2008.

1. Determine the WET tests and designated methods for Study 28. Select the test organism and testing conditions that most closely resemble the testing conditions required by the permit for which you are supplying test results or those selected by the permittee. Use the guidelines immediately below and the table "WET Organisms/Test Conditions/End Points" (page 9) to select the proper WET tests. The permittee should indicate which tests are to be performed by checking the appropriate box in the table.

Guidelines for Choosing the Correct WET Test Organisms/Conditions/End Points

If your permit requires WET testing with Fathead minnows, *Ceriodaphnia dubia*, *Daphnia magna*, *Daphnia pulex*, *Mysidopsis bahia*, Inland silverside (*Menidia beryllina*) or Sheepshead minnow (*Cyprinodon variegates*), test those organisms listed in each permit using the test conditions, including temperature, defined in the Test Codes listed below.

If your permit's WET testing conditions for *Ceriodaphnia dubia* specify 48-h acute, **non-renewal** testing, conduct this test using the static, **renewal** acute conditions defined by Test Codes 17, 18, 19, and 20. The testing conditions defined for these Test Codes have been proven to provide an appropriate measure of your ability to perform WET testing with *Ceriodaphnia dubia*.

If your permit's WET testing conditions for *Daphnia magna* and *Daphnia pulex* specify 48-h acute **renewal** testing, you must conduct this test using the **non-renewal** conditions specified in Test Codes 32, 36, and 38 listed below.

If your permit's WET testing conditions require 24, 48, or 96-h acute testing using any of the organisms included in Study 28, use the 48-h acute test conditions specified in the Test Codes listed below.

If your permit requires WET Testing with *Mysidopsis bahia*, Inland silverside (*Menidia beryllina*) or Sheepshead minnow (*Cyprinodon variegates*) and your laboratory uses an alternate synthetic seawater (e.g., Hawaiian Brands or GP2, etc.) other than the 40 Fathoms specified in the Test Codes listed below, your laboratory must still perform testing.

2. Order DMR-QA Study 28 samples before **May 1, 2008**. To acquire the DMR-QA Study 28 toxicity samples, arrange to purchase them from one of the PT Providers (see page 10) or as specified by the permittee.
3. Record test results and laboratory identification on the Data Report Form received with your samples. Be sure to follow the PT Provider's instructions and deadlines received with the samples. Be aware that the permittee must follow the same data reporting procedures used for their monthly DMR reports.
4. Mandatory use of the U.S. EPA-assigned Laboratory Code on all reported results is required. If you are not sure of your U.S. EPA Lab Code, check your previous DMR-QA reports. If you need a new U.S. EPA Lab code or need to check on your old U.S. EPA Lab code call, Fax, or write Mr. Charles Feldmann as soon as you determine you need a number (contact information can be found on page 3, step #4).
5. Send each participating permittee the data they requested. Provide each of your permittees the original data or a copy of the PT Provider's Data Reporting Forms. Allow sufficient time for the permittee to send the completed form back to the PT Provider by the published study close date.
6. **Maintain a copy of all completed order forms for your records.**

References Manuals for WET Tests (see <http://www.epa.gov/waterscience/WET>)

All tests must be conducted according to the standard methods published in the following EPA manuals. Please consult these manuals for proper test, culturing, and water preparation guidance.

1. Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA 600-4-90-027F.
2. Short-term Methods for Estimating for Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Second Edition, EPA 600-4-89-001 or EPA 600-4-91-002.
3. Supplement to Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Second Edition, EPA 600-4-89-001A.
4. Short-term Method for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, EPA 600-4-87-028 or EPA 600-4-91-003.
5. October 2002. Method for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Fifth Edition, EPA 821-R-02-012.
6. October 2002. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition, EPA 821-R-02-013.
7. October 2002. Short-term Method for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, Third Edition, EPA 821-R-02-014.

Permittee: _____

EPA Lab code: _____

Permit Number: _____

Chemistry/Microbiology/Analyte Checklist

DMR-QA Study 28

NPDES Testing Required	PT Samples Ordered	Analyte Test	Test Completed/Reported	
			On-Site Lab	Contract Lab
<input type="checkbox"/>	<input type="checkbox"/>	Microbiology	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<i>E.coli</i> , MF or MPN	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Fecal Coliform, MF or MPN	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total Coliform, MF or MPN	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Trace Metals	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Antimony	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Arsenic	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Barium	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Beryllium	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Cadmium	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Chromium, total	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Chromium, hexavalent	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Cobalt	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Copper	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Iron	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Lead	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Manganese	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Mercury	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Molybdenum	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Nickel	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Selenium	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Silver	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Thallium	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Vanadium	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Zinc	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Demands	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	5-day BOD	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	5-day Carbonaceous BOD	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	COD	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	TOC	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Minerals	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Alkalinity, total (CaCO ₃)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Chloride	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Hardness, total (CaCO ₃)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Specific conductance (25°C)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Sulfate	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total Dissolved Solids (180°C)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Nutrients	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Ammonia as N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Nitrate as N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Nitrite as N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Orthophosphate as P	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total Kjeldahl-Nitrogen as N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total Phosphorus as P	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Misc. Analytes	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Non-Filterable Residue (TSS)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Oil and Grease	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	pH	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total Cyanide	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total Phenolics (4-AAP)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total Residual Chlorine	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Settleable Solids	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input type="checkbox"/>	<input type="checkbox"/>

Print Name _____

Date _____

Signature/Title _____

WET Organisms/Test Conditions/End Points Checklist

DMR-QA Study 28

Analyte Number	Organisms / Conditions	End Points	Test Req'd
Test Code 11/EPA Method 2000			
752	Fathead minnow (<i>Pimephales promelas</i>) - MHSF 20°C	LC50	<input type="checkbox"/>
Test Code 13/EPA Method 2000			
754	Fathead minnow (<i>Pimephales promelas</i>) - MHSF 25°C	LC50	<input type="checkbox"/>
Test Code 14/EPA Method 2000			
755	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW 25°C	LC50	<input type="checkbox"/>
Test Code 15/EPA Method 1000			
756	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC SURVIVAL	<input type="checkbox"/>
808	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	IC25 GROWTH	<input type="checkbox"/>
809	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	IC25 (SN) ¹ GROWTH	<input type="checkbox"/>
810	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC (ON) ² GROWTH	<input type="checkbox"/>
811	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC (SN) GROWTH	<input type="checkbox"/>
Test Code 16/EPA Method 1000			
759	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>
812	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	IC25 GROWTH	<input type="checkbox"/>
813	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	IC25 (SN) GROWTH	<input type="checkbox"/>
814	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC (ON) GROWTH	<input type="checkbox"/>
815	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC (SN) GROWTH	<input type="checkbox"/>
Test Code 17/EPA Method 2002			
762	<i>Ceriodaphnia dubia</i> - MHSF	LC50	<input type="checkbox"/>
Test Code 18/EPA Method 2002			
763	<i>Ceriodaphnia dubia</i> - 20% DMW	LC50	<input type="checkbox"/>
Test Code 19/EPA Method 2002			
764	<i>Ceriodaphnia dubia</i> - MHSF 25°C	LC50	<input type="checkbox"/>
Test Code 20/EPA Method 2002			
765	<i>Ceriodaphnia dubia</i> - 20% DMW 25°C	LC50	<input type="checkbox"/>
Test Code 21/EPA Method 1002			
766	<i>Ceriodaphnia dubia</i> - MHSF	NOEC SURVIVAL	<input type="checkbox"/>
767	<i>Ceriodaphnia dubia</i> - MHSF	IC 25 REPRODUCTION	<input type="checkbox"/>
768	<i>Ceriodaphnia dubia</i> - MHSF	NOEC REPRODUCTION	<input type="checkbox"/>
Test Code 22/EPA Method 1002			
769	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>
770	<i>Ceriodaphnia dubia</i> - 20% DMW	IC25 REPRODUCTION	<input type="checkbox"/>
771	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC REPRODUCTION	<input type="checkbox"/>
Test Code 32/EPA Method 2021			
788	<i>Daphnia magna</i> - MHSF 20°C	LC50	<input type="checkbox"/>
Test Code 36/EPA Method 2021			
792	<i>Daphnia pulex</i> - MHSF 20°C	LC50	<input type="checkbox"/>
Test Code 38/EPA Method 2021			
794	<i>Daphnia pulex</i> - MHSF 25°C	LC50	<input type="checkbox"/>
Test Code 42/EPA Method 2007			
798	Mysid (<i>Mysidopsis bahia</i>) 20°C	LC50	<input type="checkbox"/>
Test Code 43/EPA Method 1007			
799	Mysid (<i>Mysidopsis bahia</i>)	NOEC SURVIVAL	<input type="checkbox"/>
816	Mysid (<i>Mysidopsis bahia</i>)	IC25 GROWTH	<input type="checkbox"/>
817	Mysid (<i>Mysidopsis bahia</i>)	IC25 (SN) GROWTH	<input type="checkbox"/>
818	Mysid (<i>Mysidopsis bahia</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>
819	Mysid (<i>Mysidopsis bahia</i>)	NOEC (SN) GROWTH	<input type="checkbox"/>
Test Code 44/EPA Method 2006			
803	Inland silverside (<i>Menidia berylina</i>) 20°C	LC50	<input type="checkbox"/>
Test Code 46/EPA Method 2004			
804	Sheepshead minnow (<i>Cyprinodon variegatus</i>) 20°C	LC50	<input type="checkbox"/>
Test Code 47/EPA Method 1004			
805	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC SURVIVAL	<input type="checkbox"/>
820	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	IC25 GROWTH	<input type="checkbox"/>
821	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	IC25 (SN) GROWTH	<input type="checkbox"/>
822	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>
823	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC (SN) GROWTH	<input type="checkbox"/>

¹Survival Number ²Original Number

Permittee: Provide a copy of this checklist to your in-house and contract laboratories with the selected analytes that you want them to test for during Study 28. This checklist must be included with the final data package that you are required to send to your state DMR-QA coordinator and PT Provider by **August 29, 2008**.

TNI Designated PTOB/PTPA Accredited PT Providers

Please contact individual laboratories to obtain samples and test schedule. Find the following TNI PT Providers on the internet at: <http://a2la.org/dirsearchnew/nelactproviders.cfm>

NELAC-Accredited Provider	Chem	Micro	WET
Analytical Products Group, Inc., Belpre, OH Ms. Melissa McNamara (440) 899-9452 or (800) 272-4442, m.mcnamara@apgqa.com	✓	✓	
Microcheck, Inc., Northfield, VT Ms. Courtney Williamson (802) 485-6600 X27 or (866) 606-6100, courtney@microcheck.com		✓	
Absolute Standards, Inc., Hamden, CT Mr. Stephen Arpie (203) 281-2917 or (800) 368-1131, stephen@absolutestandards.com	✓	✓	
NSI Solutions, Inc., Raleigh, NC Mr. Mark Hammersla (919) 957-9672 or (800) 234-7837, mark.hammersla@nsi-es.com	✓	✓	
Resource Technology Corporation (RTC), Laramie, WY Mr. Patrick Brumfield (307) 742-5452 or (800) 576-5690, pbrumfield@rt-corp.com	✓	✓	✓
Environmental Resource Associates (ERA), Arvada, CO Mr. Curtis Wood (303) 431-8454 or (800) 372-0122, cwood@eraqc.com	✓	✓	✓
Wibby Environmental, Golden, CO Mr. Chuck Wibby (303) 940-0033, cwibby@wibby.com	✓	✓	✓
NYS DOH Environmental Laboratory Approval Program, Albany, NY Dr. Kenneth Jackson (518) 485-5570, elap@health.state.ny.us	✓	✓	

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State and EPA Regional DMR-QA Coordinators are frequently changed.

**Please consult <http://www.epa.gov/compliance/monitoring/programs/cwa/dmr/index.html>
for the latest list of coordinator**