

**Memorandum of Agreement  
Between  
The State of North Carolina's Division of Water Quality  
And  
The New River Basin Coalition**

**Effective:  
August 1, 2011 through July 31, 2016**



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## MEMORANDUM OF AGREEMENT

This Memorandum of Agreement (MOA) is made by and between the NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES'S DIVISION OF WATER QUALITY (DWQ), the NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGERS in the New River basin who have voluntarily executed this MOA (the NRB PERMITTEES), and the NEW RIVER BASIN COALITION (the NRBC), whose members include the NRB PERMITTEES and other stakeholders. The MOA includes all the attached tables and appendices. This MOA does not affect any influent or effluent monitoring requirement or any other NPDES permit requirements of individual permit holders with the one exception of performing upstream and downstream water quality monitoring. The NRB PERMITTEES are exempted from instream monitoring as specified in their individual NPDES permits beginning on the effective date of this MOA and continuing for the duration of each permittee's participation in this MOA. Subsequent to the execution of this MOA, the DWQ will issue a letter to each NRB PERMITTEE whose permit contains instream monitoring requirements, notifying the permittee that the instream monitoring requirements of its permit are not effective for as long as this MOA is in place and the permittee remains a party to this MOA.

The purpose of this MOA is to establish a formal agreement between the DWQ, the NRB PERMITTEES, and the NRBC. This MOA authorizes the NRBC to act on behalf of the NRB PERMITTEES as described herein. This MOA identifies the responsibilities of the NRB PERMITTEES and the NRBC for surface water monitoring and reporting within the New River Basin. The water quality monitoring will occur at strategically located surface water sites to obtain information on water quality in the basin. Monitoring sites and parameters, listed in Appendix A, were established by the DWQ such that the instream monitoring is efficient, effective, and basin-oriented.

The NRBC will perform the monitoring activities described herein on behalf of NRB PERMITTEES who are members in good standing of the NRBC. Each NRB PERMITTEE agrees to remain a member in good standing of the NRBC. The NRBC will contract for the performance of the monitoring activities described herein and in Appendix B with a laboratory appropriately certified by the DWQ for the required laboratory and field analyses. Sample collection and field measurements will be made by appropriately DWQ certified NRB PERMITTEES, the NRBC, or a sub-contractor who will act as agent(s) of the NRB PERMITTEES for the sole purpose of performing monitoring services required by this MOA. It will be the responsibility of the NRBC to coordinate the collection and analyses of the water quality monitoring data for the locations, parameters, and frequencies specified in Appendix A of this MOA. Sample collection, field measurement, and target reporting limits are specified in Appendix B of this MOA. Monthly and annual reporting requirements, including data format and data summaries are described in Appendix C of this MOA.

The NRBC shall submit the water quality data to the DWQ using the format documented in Appendix C of this MOA in Microsoft® Excel 2000, a subsequent version, or the equivalent. The NRBC shall submit the water quality data to the DWQ within 90 days of the end of the month in which the sampling was performed. All data shall be archived by the NRBC for a period of at least 5 years. Each NRB PERMITTEE and NRBC member has the right to review and comment on work, data or reports prepared by any contractor on behalf of the NRBC and to notify the DWQ of any objection or disagreement with any portion of the work, data, or

reports. Unless such notice is made within thirty (30) days of submission of data or other reports to the DWQ, it shall be deemed to be waived and the work, data and reports submitted shall be deemed to be approved by the NRB PERMITTEES and NRBC. Failure by the NRB PERMITTEES or the NRBC to collect or analyze the water quality data as described in this MOA, or to provide the data to the DWQ in the required format, may result in the revocation of this MOA by the DWQ and the return to individual upstream and downstream monitoring requirements, as specified in the individual NPDES permits of the NRB PERMITTEES.

The NRBC shall submit an annual written report that summarizes the previous calendar year's sampling results and formally finalize the water quality data. The report shall be submitted no later than April 30th each year that this MOA is in effect. The annual report shall include the NPDES permit number of each actively participating permit holder and a contact name, email address and phone number for each member. Appendix C of this MOA describes the required annual report content. Two copies, signed by the NRBC chairman, of these and any other reports required herein shall be submitted to the DWQ Coalition Coordinator at 1621 Mail Service Center, Raleigh, NC 27699-1621.

Stream sampling may be discontinued at such times as flow conditions in the receiving waters or extreme weather conditions will result in a substantial risk of injury or death to persons collecting samples. Sampling may also be discontinued when environmental conditions, such as a dry stream, prevent sample collection. In such cases, on each day that sampling is discontinued, the DWQ Coalition Coordinator shall be notified within one week of the discontinuance and written justification for the discontinuance shall be submitted with the monthly data submittal. This provision shall not be utilized to avoid the requirements of this MOA when performance of these requirements is attainable. When there is a sampling discontinuance pursuant to this provision, sampling shall be resumed at the first opportunity.

This MOA may be modified by the written consent of the DWQ and the NRBC. The DWQ or the NRBC may determine that it is necessary to request changes in membership, monitoring frequency, parameters or sites to be sampled. Any such changes can only be made by a written amendment to this MOA agreed to by the DWQ and the NRBC. The amendment shall be signed by the NRBC chairman and by the DWQ. Such amendments may be entered into at any time.

The following additional parties may enter into this MOA subsequent to the effective date hereof:

- 1) Dischargers who receive a NPDES permit within the New River Basin,
- 2) Dischargers who have NPDES permits within the New River Basin but are not parties to this Agreement, or
- 3) Stakeholders in the New River Basin with whom the DWQ and NRBC agree to allow membership.

The addition of such parties to this MOA may be made only with the consent of the DWQ and the NRBC and shall require a written amendment to this MOA signed by the NRBC chairman, by the DWQ, and by an authorized representative of any such party who wishes to enter into the MOA. The DWQ will not unreasonably withhold consent to the addition of a party to the MOA. The DWQ will consider modification of the existing monitoring program described in this MOA for the addition of a member to the MOA. Such amendments may be made at any time that this MOA is in effect. The NRB PERMITTEES and original NRBC members

included in this MOA are listed in Table 1.

This MOA shall be effective until (June 30, 2016) unless extended by the consent of both the DWQ and the NRBC. Upon sixty (60) days written notice, the DWQ or the NRBC may terminate this MOA for any reason. Upon termination of this MOA, the instream monitoring requirements contained in the individual NPDES permit of each NRB PERMITTEE shall become effective immediately. An individual permit holder or member may terminate and cancel its participation in this MOA by providing one-hundred eighty (180) days written notice to the NRBC, and sixty (60) days written notice to the DWQ Coalition Coordinator, the appropriate DWQ Regional Office, and the DWQ NPDES Unit. The monitoring requirements contained in the individual NPDES permit shall become effective immediately upon such cancellation or termination. In the event a permit holder terminates or cancels its participation in this MOA or its membership in the NRBC is terminated for any reason, the NRBC may request that DWQ review the monitoring plan described in this MOA for a possible reduction in sampling effort or requirements.

Should any part of this Agreement be declared invalid or unenforceable by a court of competent jurisdiction, invalidation of the affected portion shall not invalidate the remaining portions of the Agreement and they shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have caused the execution of this instrument by authority duly given, to be effective as of the date executed by the DWQ.

**DIVISION OF WATER QUALITY**

**NEW RIVER BASIN COALITION**

By: Signed July 21, 2011

**Coleen Sullins**  
**Director**  
**Division of Water Quality**

By: Signed July 22, 2011

**David Hamilton**  
**Chairman**  
**New River Basin Coalition**

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**Table 1  
NRMC PERMITTEES**

<b>NPDES Permit Number</b>	<b>New River Basin Association Permittees Facility &amp; Ownership</b>	<b>Authorized Representative and Title</b>	<b>County</b>	<b>Region</b>	<b>8 Digit HUC</b>
NC0000019	United Chemi-Con WWTP United Chemi-Con, Inc.	Butch Howell Environmental Manager	Ashe	WSRO	05050001
NC0020451	West Jefferson WWTP Town of West Jefferson	David Hamilton Utilities Director	Ashe	WSRO	05050001
NC0020621	Jimmy Smith WWTP Town of Boone	Rick Miller Public Utilities Director	Watauga	WSRO	05050001
NC0021709	Jefferson WWTP Town of Jefferson	Tim Church Water Resources Director	Ashe	WSRO	05050001
NCGNE0495	GE Aviation Stormwater GE Aviation	Jill Wall EHS Leader	Ashe	WSRO	05050001

**Table 2  
NRMC PERMITEE & MEMBER SIGNATURES**

<b>NPDES Permit Number (if applicable)</b>	<b>Permittee/Member</b>	<b>Signature</b>	<b>Date</b>
NC0000019	United Chemi-Con, Inc United Chemi-Con WWTP	<u>Signed July 12, 2011</u> Butch Howell Environmental Manager	
NC0020451	Town of West Jefferson West Jefferson WWTP	<u>Signed July 13, 2011</u> David Hamilton Utilities Director	
NC0020621	Town of Boone Jimmy Smith WWTP	<u>Signed July 13, 2011</u> Rick Miller Public Utilities Director	
NC0021709	Town of Jefferson Jefferson WWTP	<u>Signed July 13, 2011</u> Tim Church Water Resources Director	
NCGNE0495	GE Aviation GE Stormwater Discharge	<u>Signed July 14, 2011</u> Jill Wall EHS Leader	
	National Committee for the New River	<u>Signed July 13, 2011</u> George Santucci Executive Director	
	Ashe County	<u>Signed July 15, 2011</u> Dan McMillan Town Manager	

**APPENDIX A**  
**NRMC MONITORING PROGRAM**

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**Table A-1  
NRMC Sampling Stations, Parameters & Frequencies**

DWQ Station Number	Location	Station Comments	Latitude	Longitude	County	Stream Class	Stream Index	Sub-Basin	<sup>1</sup> Field Parameters	Fecal Coliform	Turbidity	TSS	<sup>2</sup> Nutrients	Metals
K2100000	S Fork New River at US 221 and 421 at Perkenesville	Overlapping AMS stn dns Boone WWTP	36.2208	-81.6397	Watauga	C:+	10-1-(3.5)	05-07-01	M	M	M		M	
K2980000	S Fork New River at NC 163 nr Obids	Drainage for Pine Swamp and Beaver Ck watersheds; Dns GE Aviation	36.3172	-81.4049	Ashe	WS-V; HQW	10-1-(20.5)	05-07-01	M	M	M		M	
K6400000	Buffalo Ck at BC Hunter Rd nr Warrensville	Dns W. Jefferson WWTP; Heavy Ag area	36.4437	-81.5193	Ashe	C; Tr, HQW	10-2-20	05-07-02	M	M	M		M	
K7010000	N Fork New River at SR 1514 (Deep Ford Rd) nr Bina	Dns United Chemi-Con & Lansing WWTPs	36.4803	-81.4771	Ashe	C; ORW	10-2-(21.5)	05-07-02	M	M	M		M	

<sup>1</sup> Field Parameters include Temperature, Dissolved Oxygen, pH, and Conductivity

<sup>2</sup> Nutrients include Ammonia as N (NH<sub>3</sub>), Total Kjeldahl Nitrogen (TKN), Nitrate/Nitrite as N (NO<sub>2</sub>/NO<sub>3</sub>), and Total Phosphorus as P

M=Monthly

dns=downstream; ups=upstream



**APPENDIX B**  
**SAMPLE COLLECTION AND ANALYSIS**

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### **Sample Collection Procedures**

Sample collection shall be performed by trained personnel employed by NC DWQ certified laboratories in accordance with the DWQ NPDES Monitoring Coalition Program Field Monitoring Guidance Document (May 2008) and subsequent documents. The Field Monitoring Guidance Document can be found on the web at: <http://portal.ncdenr.org/web/wq/ess/eco/coalition>. Alternate collection procedures require the approval of the DWQ coalition coordinators prior to use.

### **Laboratory Analysis**

All laboratory analyses shall be performed at a DWQ certified laboratory using approved methods as prescribed by section 40 of the Code of Federal Regulations part 136 (40CFR136) or other methods certified by the DWQ Laboratory Certification Branch (<http://portal.ncdenr.org/web/wq/lab/cert/nonfield/methods>) or the Director of DWQ. 40CFR136 can be accessed on the web at <http://portal.ncdenr.org/web/wq/lab/cert/nonfield/rules>.

Reporting levels will be at least as stringent as the reporting levels used by the DWQ Laboratory. For guidance purposes Table B-1 lists target reporting levels for each parameter based on the reporting levels of the DWQ Laboratory. The lowest possible analytical limits for all the parameters should be pursued.

**TABLE B-1  
DWQ Laboratory Reporting Limits**

<b>Parameters</b>	<b>Target Reporting Level</b>	<b>Comments</b>
Water Temperature		Resolution to 0.1 degree Celsius
Dissolved Oxygen		Report results to the nearest 0.1 mg/L.
pH		Meters should be calibrated to measure a pH range of at least 4.01 to 9.18. Report results to the nearest 0.1 pH units.
Specific Conductivity		Report results to the nearest whole $\mu\text{mho}/\text{cm}$ at 25 °C.
Turbidity	1.0 NTU	
TSS	6.2 mg/L	
Fecal Coliform	1 colony/100 mL	At least 3 dilutions should be used to achieve optimum colony counts per membrane filter of 20-60 colonies.
Chlorophyll <i>a</i>	1 $\mu\text{g}/\text{L}$	Report Chlorophyll <i>a</i> values free from pheophytin and other chlorophyll pigments. Analysis by HPLC is not approved by DWQ.
Ammonia (NH <sub>3</sub> as N)	0.02 mg/L	Address distillation requirement. See 40CFR136 Table II footnote.
Nitrate + Nitrite as N	0.02 mg/L	
Total Kjeldahl Nitrogen as N	0.20 mg/L	
Total Phosphorus as P	0.02 mg/L	

### **Data Qualification Codes**

When reporting data, the DWQ's data qualifier codes must be used to provide additional information regarding data quality and interpretation. The current set of qualifier codes to be used is provided in Table B-2. Review the data remark codes at least annually and utilize the most current set, as codes are subject to change. A copy of this table can be found at <http://portal.ncdenr.org/web/wq/lab/qualityassurance>.

**Table B-2  
Data Remark Codes for Use with Coalition Data**

<b>Data Remark Code</b>	<b>Code Definition</b>
<b>A</b>	<p>Value reported is the mean (average) of two or more determinations. This code is to be used if the results of two or more discrete and separate samples are averaged. These samples shall have been processed and analyzed independently (e.g. field duplicates, different dilutions of the same sample). This code is not required for BOD or coliform reporting since averaging multiple dilutions for these parameters is fundamental to those methods.</p>
<b>B</b>	<p>Results based upon colony counts outside the acceptable range and should be used with caution. This code applies to microbiological tests and specifically to membrane filter (MF) colony counts. It is to be used if less than 100% sample was analyzed and the colony count is generated from a plate in which the number of colonies exceeds the ideal ranges indicated by the method. These ideal ranges are defined in the method as:</p> <p><i>Fecal coliform or Enterococcus bacteria: 20-60 colonies</i>                      <i>Total coliform bacteria: 20-80 colonies</i></p> <p>B1. Countable membranes with less than 20 colonies. Reported value is estimated or is a total of the counts on all filters reported per 100 mL.</p> <p>B2. Counts from all filters were zero. The value reported is based on the number of colonies per 100 mL that would have been reported if there had been one colony on the filter representing the largest filtration volume (reported as a less than "&lt;" value).</p> <p>B3. Countable membranes with more than 60 or 80 colonies. The value reported is calculated using the count from the smallest volume filtered and reported as a greater than "&gt;" value.</p> <p>B4. Filters have counts of both &gt;60 or 80 and &lt;20. Reported value is a total of the counts from all countable filters reported per 100 mL.</p> <p>B5. Too many colonies were present; too numerous to count (TNTC). TNTC is generally defined as &gt; 150 colonies. The numeric value represents the maximum number of counts typically accepted on a filter membrane (60 for fecal and 80 for total), multiplied by 100 and then divided by the smallest filtration volume analyzed. This number is reported as a greater than value.</p> <p>B6. Estimated Value. Blank contamination evident.</p> <p>B7. Many non-coliform colonies or interfering non-coliform growths are present. In this competitive situation, the reported coliform value may under-represent actual coliform density.</p> <p><u>Note:</u> A "B" value shall be accompanied by justification for its use denoted by the numbers listed above (e.g., B1, B2, etc.).  <u>Note:</u> A "J2" should be used for spiking failures.</p>
<b>BB</b>	<p>This code applies to most probable number (MPN) microbiological tests.</p> <ol style="list-style-type: none"> <li>No wells or tubes gave a positive reaction. Value based upon the appropriate MPN Index and reported as a less than "&lt;" value.</li> <li>All wells or tubes gave positive reactions. Value based upon the MPN Index and reported as a greater than "&gt;" value.</li> </ol> <p><u>Note:</u> A "BB" value shall be accompanied by justification for its use denoted by the numbers listed above (e.g., BB1, BB2, etc.).</p>
<b>C</b>	<p>Total residual chlorine was present in sample upon receipt in the laboratory; value is <b>estimated</b>. Generally applies to cyanide, phenol, NH<sub>3</sub>, TKN, coliform, and organics)</p>

Data Remark Code	Code Definition
<b>G</b>	<p>A <u>single</u> quality control failure occurred during biochemical oxygen demand (BOD) analysis. The sample results should be used with caution.</p> <p>G1. The dissolved oxygen (DO) depletion of the dilution water blank exceeded 0.2 mg/L.</p> <p>G2. The bacterial seed controls did not meet the requirement of a DO depletion of at least 2.0 mg/L and/or a DO residual of at least 1.0 mg/L.</p> <p>G3. No sample dilution met the requirement of a DO depletion of at least 2.0 mg/L and/or a DO residual of at least 1.0 mg/L.</p> <p>G4. Evidence of toxicity was present. This is generally characterized by a significant increase in the BOD value as the sample concentration decreases. The reported value is calculated from the highest dilution representing the maximum loading potential and should be considered an <b>estimated</b> value.</p> <p>G5. The glucose/glutamic acid standard exceeded the range of 198± 30.5 mg/L.</p> <p>G6. The calculated seed correction exceeded the range of 0.6 to 1.0 mg/L.</p> <p>G7. Less than 1 mg/L DO remained for all dilutions set. The reported value is an <b>estimated</b> greater than value and is calculated for the dilution using the least amount of sample.</p> <p>G8. Oxygen usage is less than 2 mg/L for all dilutions set. The reported value is an <b>estimated</b> less than value and is calculated for the dilution using the most amount of sample.</p> <p>G9. The DO depletion of the dilution water blank produced a negative value.</p>
<b>J</b>	<p><b>Estimated</b> value; value may not be accurate. This code is to be used in the following instances:</p> <p>J1. Surrogate recovery limits have been exceeded;</p> <p>J2. The reported value failed to meet the established quality control criteria for either precision or accuracy;</p> <p>J3. The sample matrix interfered with the ability to make any accurate determination;</p> <p>J4. The data is questionable because of improper laboratory or field protocols (e.g. composite sample was collected instead of grab, plastic instead of glass container)</p> <p>J5. Temperature limits exceeded (samples frozen or &gt;6° C) during transport or not verifiable (e.g., no temperature blank provided);, non-reportable for NPDES compliance monitoring.</p> <p>J6. The laboratory analysis was from an unpreserved or improperly chemically preserved sample. The data may not be accurate.</p> <p>J7. This qualifier is used to identify analyte concentration exceeding the upper calibration range of the analytical instrument/method. The reported value should be considered estimated.</p> <p>J8. Temperature limits exceeds (samples frozen or &gt;6°C during storage. The data may not be accurate.</p> <p>J9. The reported value is determined by a <b>one-point estimation</b> rather than against a regression equation. The estimated concentration is less than the laboratory practical quantitation limit and greater than the laboratory method detection limit.</p> <p>J10. Unidentified peak; estimated value.</p> <p>J11. The reported value is determined by a <b>one-point estimation</b> rather than against a regression equation. The estimated concentration is less than the laboratory practical quantitation limit and greater than the laboratory method detection limit. <i>This code is used when an MDL has not been established for the analyte in question.</i></p> <p>J12. The calibration verification did not meet the calibration acceptance criterion for <b>field parameters</b>.</p> <p>Note: A "J" value shall not be used if another code applies (ex. N, V, M).</p>

Data Remark Code	Code Definition
<b>M</b>	Sample and duplicate results are "out of control." The sample is non-homogenous (e.g. VOA soil). The reported value is the <u>lower</u> value of duplicate analyses of a sample.
<b>N</b>	Presumptive evidence of presence of material; <b>estimated</b> value. This code is to be used if: N1. The component has been tentatively identified based on mass spectral library search; N2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternate procedures). N3. This code shall be used if the level is too low to permit accurate quantification, but the <b>estimated</b> concentration is less than the laboratory practical quantitation limit and greater than the laboratory method detection limit. <i>This code is not routinely used for most analyses.</i> N4. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is less than the laboratory practical quantitation limit and greater than the instrument noise level. <i>This code is used when an MDL has not been established for the analyte in question.</i> N5. The component has been tentatively identified based on a retention time standard.
<b>P</b>	Elevated practical quantitation limit (PQL)* due to matrix interference and/or sample dilution.
<b>Q</b>	Holding time exceeded. These codes shall be used if the value is derived from a sample that was received, prepared and/or analyzed after the approved holding time restrictions for sample preparation and analysis. The value does not meet NPDES requirements. Q1. Holding time exceeded prior to receipt by lab Q2. Holding time exceeded following receipt by lab
<b>S</b>	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD).
<b>U</b>	Indicates that the analyte was analyzed for but not detected above the reported practical quantitation limit (PQL)*. The number value reported with the "U" qualifier is equal to the laboratory's PQL*.
<b>V</b>	Indicates the analyte was detected in both the sample and the associated method blank. <u>Note:</u> The value in the blank shall not be subtracted from the associated samples.
<b>X</b>	Sample not analyzed for this constituent. This code is to be used if: X1. Sample not screened for this compound. X2. Sampled, but analysis lost or not performed-field error X3. Sampled, but analysis lost or not performed-lab error
<b>Y</b>	Elevated PQL* due to insufficient sample size
<b>Z</b>	The presence or absence of the analyte cannot be verified. The sample analysis/results are not reported due to: Z1. Inability to analyze the sample. Z2. Questions concerning data reliability.

\*PQL, The Practical Quantitation Limit (PQL), is defined as the lowest level achievable among laboratories within specified limits during routine laboratory operation. The Practical Quantitation Limit (PQL) is "about three to five times the method detection limit (MDL) and represents a practical and routinely achievable detection level with a relatively good certainty that any reported value is reliable." (APHA, AWWA, WEF. 1992. Standard Methods for the Examination of Water and Wastewater, 18<sup>th</sup> ed.)

\*\* Data remarks are current as of March 17, 2011

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## **APPENDIX C**

### **DATA FORMAT AND REPORTING REQUIREMENTS**

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### **Data Format for Monthly submittals**

Table C-1 provides the required data submittal spreadsheet format with sample data. Do not use commas, tabs, pipes or other common file delimiters anywhere in the table. The first row should contain the column headings only. Column headings must include appropriate information on measurement units (mg/l, µg/l, cfu/100ml, etc.). The second row must contain the method code. It is very important that the format of the headings and the number and order of columns is consistent among all monthly submissions. The DWQ station number must be provided (e.g. K6140000). An additional column containing the location description is acceptable as long as it is consistently included. Include a comment column for describing pertinent information related to the sampling event or specific samples. Ensure no missing values for station, date, time, and depth. Place all remark codes in a separate column as demonstrated in Table C-1. If there is no result for a particular parameter, leave the cell blank. Screen all data for inappropriate or improbable values, such as a pH of 21.2.

### **Annual Report**

The NRBC will be required to submit an annual report by April 30<sup>th</sup> for each year the MOA is in effect. The annual report will summarize all data collected in the past calendar year and contain the following elements:

- Monitoring Station List to include station number, station description, county, accurate coordinates (in decimal degrees to 4 decimal places), stream classification, and 8 digit hydrologic unit code (HUC).
- List of all certified laboratories that conducted work for the coalition in the past year, identify time frames for all laboratories and analysis methods used during the year and summarize any laboratory certification issues for individual parameters.
- Submit a CD that includes all monitoring data for the past year with a statistical summary for each station. These data should be combined into a single table containing the year's reviewed and finalized data. The annual statistical summary must describe for each parameter at each location:
  - Number of observations (N)
  - Number of observations less than the laboratory reporting level (N<RL)
  - Identify the water quality standard, action level, or other reference level (Ref)
  - Identify the number of observations that do not meet the reference level (N>Ref) or (N<Ref)
  - Maximum observed value (Max) and Minimum observed value (Min)
  - Annual arithmetic mean value (except for fecal coliform where geometric mean values should be calculated and pH)
- Include a list of active NRBC members with authorized representative updates, contact names, email addresses and phone numbers. Identify the facility name and permit number.
- Provide a list of members that are no longer active in the NRBC and their permit numbers.
- Provide a list of changes in members' names, ownerships, and discharge locations.
- Summarize all quality assurance and quality control issues and any field audits conducted.
- Summarize any significant issues, special studies, or projects.
- Describe any required data collection that was missed and provide an explanation.
- Review and update the monitoring program and suggest potential MOA modifications.
- Provide the NRBC's Website Address.

**Table C-1  
File Format for Coalition Data Reporting**

				Temp (°C)	Temp_rmk	DO (mg/l)	DO_rmk	pH (su)	pH_rmk	Conductivity (µS/cm)	Conductivity_rmk	Fecal Coliform	Fecal Coliform_rmk	Suspended Residue (mg/l)	Suspended Residue_rmk	Turbidity (NTU)	Turbidity_rmk	Chlorophyll a (µg/l)	Chlorophyll_rmk	NH3_N (mg/l)	NH3_N_rmk	TKN_N (mg/l)	TKN_N_rmk	NO2_NO3_N (mg/l)	NO2_NO3_N_rmk	TP_P (mg/l)	TP_P_rmk	
Station	Date (m/d/yyyy)	Time (hh:mm)	Depth (m)	10	10_rmk	300	300_rmk	400	400_rmk	94	94_rmk	31616	31616_rmk	530	530_rmk	82079	82079_rmk	32230	32230_rmk	610	610_rmk	625	625_rmk	630	630_rmk	665	665_rmk	
A1234567	8/19/2002	15:30	0.1	25.2		7.8		6.9		133		110		45		22		23	Q1	0.1		0.2		0.3				
B9876543	8/20/2002	11:50	0.1	27.2		7.1		7.2		125		30		4		5.6		5		0.14		0.6		0.31				
B9876543	8/20/2002	11:50	1	28		6.5		7		122																		
B9876543	8/20/2002	11:50	2	25		6.7		6.9		119																		
B9876543	8/20/2002	11:50	3	17		5.5		6.7		120																		
C1357924	8/21/2002	16:10	0.1	22.1		3.1		6.2		233		15	B1	55		11												
C0246813	9/1/2002	9:30	0.1	19.7		8.3		7		99		6000	B5	410		36				0.26		0.4		0.57				
C0246813	10/1/2002	11:30	0.1	12		8.9		7.3		115		1200	B3	95	A		X3			0.16	J2	0.2		0.09				

**Table C-1 Cont'd  
File Format for Coalition Data Reporting**

Cadmium, Cd (µg/l)	Cadmium, Cd_rmk	Chromium, Cr (µg/l)	Chromium, Cr_rmk	Copper, Cu (µg/l)	Copper, Cu_rmk	Nickel, Ni (µg/l)	Nickel, Ni_rmk	Lead, Pb (µg/l)	Lead, Pb_rmk	Zinc, Zn (µg/l)	Zinc, Zn_rmk	Aluminum, Al (µg/l)	Aluminum, Al_rmk	Iron, Fe (µg/l)	Iron, Fe_rmk	Manganese, Mn (µg/l)	Manganese, Mn_rmk	Arsenic, As (µg/l)	Arsenic, As_rmk	Mercury, Hg (µg/l)	Mercury, Hg_rmk	Comments
1027	1027_rmk	1034	1034_rmk	1042	1042_rmk	1067	1067_rmk	1051	1051_rmk	1092	1092_rmk	1105	1105_rmk	1045	1045_rmk	1055	1055_rmk	1002	1002_rmk	71900	71900_rmk	
130		11		3		27		4.4		610		10				0.21		12		12		
120		10	U	2	U	25	U	2	U	510		10	U	10	U	0.2	U	10	U	10	U	
																						Dry stream
333		10	U	2	U	25	U	2	U	624		10	U	10	U	0.2	U	10	U	10	U	Nutrient sample spilled
120		10	U	2	U	25	U	2	U	510		10	U	10	U	0.2	U	10	U	10	U	2.5" of rain on 8/31/2002
120		10	U	2	U	25	U	2	U	510		10	U	10	U	0.2	U	10	U	10	U	