COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No.: **VA0092916**
Effective Date:
Expiration Date:

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, and Parts I and II of this permit, as set forth therein.

Owner:	Buchanan County Public Service Authority
Facility Name:	Big Rock/Conaway Wastewater Treatment Plant
County:	Buchanan
Facility Location:	State Route 700, Conaway, Virginia

The owner is authorized to discharge to the following receiving stream:

Stream:	Levisa Fork
River Basin:	Tennessee-Big Sandy River
River Subbasin	Big Sandy River
Section:	3
Class:	IV
Special Standards:	None

_____

Regional Director
Department of Environmental Quality

_____

Date

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 001. For the months of June 1 through December 31, this discharge shall be limited and monitored by the permittee as specified below.

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATION				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)[a]	NL	NA	NA	NL	Continuous	Totalizing Indicating & Recording
pH (standard units)	NA	NA	6.0	9.0	1/Day	Grab
BOD_5[b,e]	30 mg/l 310 kg/d	45 mg/l 460 kg/d	NA	NA	3 Days/Week[c]	24 Hour Composite
Suspended Solids[b,e]	30 mg/l 310 kg/d	45 mg/l 460 kg/d	NA	NA	3 Days/Week[c]	24 Hour Composite
Ammonia Nitrogen NH_3-N[b]	5.8 mg/l	7.8 mg/l	NA	NA	3 Days/Week	24 Hour Composite
E. Coli (n/100 ml)	126*	NA	NA	NA	1/Day**	Grab
Dissolved Oxygen	NA	NA	6.0	NA	1/Day	Grab

a. The design flow of this treatment facility is 2.7 MGD.
b. See PART I B. Special Condition - Compliance Reporting Under PART I A.
c. BOD_5 and total suspended solids monitoring must be conducted on Monday, Tuesday or Wednesday and Friday of each week.
d. There shall be no discharge of floating solids or visible foam in other than trace amounts.
e. At least 85% removal for BOD and Total Suspended Solids must be attained for this effluent.

NL = No limitation, monitoring required. NA = Not applicable
*Geometric Mean
**Between 10 a.m. and 4 p.m.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 001. For the months of January 1 through May 31, this discharge shall be limited and monitored by the permittee as specified below.

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATION						MONITORING REQUIREMENTS	
	Monthly Average		Weekly Average		Minimum	Maximum	Frequency	Sample Type
Flow (MGD)[a]	NL		NA		NA	NL	Continuous	Totalizing Indicating & Recording
pH (standard units)	NA		NA		6.0	9.0	1/Day	Grab
BOD_5[b,e]	30 mg/l	310 kg/d	45 mg/l	460 kg/d	NA	NA	3 Days/Week[c]	24 Hour Composite
Suspended Solids[b,e]	30 mg/l	310 kg/d	45 mg/l	460 kg/d	NA	NA	3 Days/Week[c]	24 Hour Composite
E. Coli (n/100 ml)	126*	NA			NA	NA	1/Day**	Grab
Dissolved Oxygen	NA		NA		6.0	NA	1/Day	Grab

a. The design flow of this treatment facility is 2.7 MGD.
b. See PART I B. Special Condition - Compliance Reporting Under PART I A.
c. BOD_5 and total suspended solids monitoring must be conducted on Monday, Tuesday or Wednesday and Friday of each week.
d. There shall be no discharge of floating solids or visible foam in other than trace amounts.
e. At least 85% removal for BOD and Total Suspended Solids must be attained for this effluent.

NL = No limitation, monitoring required. NA = Not applicable
*Geometric Mean
**Between 10 a.m. and 4 p.m.

PART I

B. Special Condition - Compliance Reporting

1. The quantification levels (QL) shall be less than or equal to the following concentrations:

Effluent Characteristic	Quantification Level
BOD_5	*2 mg/l*
Total Suspended Solids	*1.0 mg/l*
Ammonia Nitrogen	*0.20 mg/l*

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II A of this permit.

2. **Monthly Average** -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subsection 1. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis(QL must be less than or equal to the QL listed in 1. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in 1. above) shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in 1. above), then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then "<QL" shall be reported for the quantity. Otherwise the reported concentration data (including the defined zeros) and flow data for each sample day shall be used to determine the daily quantity and the monthly average of the calculated daily quantities shall be reported.

Weekly Average -- Compliance with the weekly average limitations and/or reporting requirements for the parameters listed in subsection 1. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in 1. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in 1. above) shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each complete calendar week and entirely contained within the reporting month. The maximum value of the weekly averages thus determined shall be reported on the DMR. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in 1. above), then the weekly average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported weekly average concentration is <QL, then "<QL" shall be

PART I

B. Special Condition - Compliance Reporting
(Continued)

reported for the quantity. Otherwise the reported concentration data (including the defined zeros) and flow data for each sample day shall be used to determine the daily quantity and the maximum weekly average of the calculated daily quantities shall be reported.

Daily Maximum -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subsection 1. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in 1. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in 1. above) shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in 1. above), then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum concentration is <QL, then "<QL" shall be reported for the quantity. Otherwise the reported daily average concentrations (including the defined zeros) and corresponding daily flows shall be used to determine the daily average quantities and the maximum of the daily average quantities shall be reported during the reporting month.

Single Datum - Any single datum required shall be reported as "<QL" if it is less than the QL used for the analysis (QL must be less than or equal to the QL listed in a. above). Otherwise the numerical value shall be reported.

3. **Significant Digits** -- The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e., 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

C. Special Condition - Control of Significant Dischargers

1. Within 180 days of the issuance of a Certificate to Operate for the treatment works, the permittee shall submit to the DEQ, Southwest Regional Office, 355-A Deadmore St., Abingdon, Virginia, 24210, a survey of all Industrial Users discharging to the POTW. The information shall be submitted on the DEQ Discharger Survey Form, or an equivalent form that includes the quantity and quality of the wastewater. Survey results shall include the identification of significant industrial users of the POTW.

2. Should evaluation by the DEQ of results of the Industrial User survey conducted in accordance with (1) above indicate that the permittee is not required to implement a pretreatment program, the requirements for program development described in (4) below may be suspended by the DEQ.

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C. Special Condition - Control of Significant Dischargers
(Continued)

3. If Categorical Industrial User(s) are identified, or if the permittee or DEQ determines that the industrial user(s) have potential to adversely affect the operation of the POTW or cause violation(s) of federal, state or local standards or requirements, the permittee shall develop and submit to the DEQ Regional Office, within one year of written notification by DEQ, a pretreatment program for approval. The program shall enable the permittee to control by permit the Significant Industrial Users* discharging wastewater to the treatment works.

4. The approvable pretreatment program submission shall at a minimum contain the following parts:

   a. Legal authority,
   b. Program procedures,
   c. Funding and resources,
   d. Local limits evaluation, and local limits if needed,
   e. Enforcement response plan, and
   f. List of Significant Industrial Users.

5. Where the permittee is required to develop a pretreatment program, the permittee shall submit to the DEQ Regional Office an annual report no later than January 31 of each year and must include:

   a. An updated list of the Significant Industrial Users (SIUs)* noting all of the following:
      (1) Facility address, phone, and contact name.
      (2) Explanation of SIUs deleted from the previous years list.
      (3) Identification of which IUs are subject to Categorical Standards and to which standard.
      (4) Which 40 CFR part(s) is/are applicable.
      (5) Which IUs are subject to local standards that are more stringent than Categorical Pretreatment Standards
      (6) Which IUs are subject only to local requirements
      (7) Which IUs are subject to Categorical Pretreatment Standards that are subject to reduced monitoring requirements under 9VAC25-31-840 E.3.
      (8) Which IUs are non-significant Categorical Industrial Users.

   b. A summary of the compliance status of each Significant Industrial User with pretreatment standards and permit requirements.

   c. A summary of the number and types of Significant Industrial User sampling and inspections performed by the POTW.

   d. All information concerning any interference, upset, VPDES permit or Water Quality Standards violations directly attributable to Significant Industrial Users and enforcement actions taken to alleviate said events.

   e. A description of all enforcement actions taken against Significant Industrial Users over the previous 12 months.

   f. A summary of any changes to the submitted pretreatment program that

PART I

C. Special Condition - Control of Significant Dischargers
(Continued)

have not been previously reported to the DEQ Southwest Regional Office.

g. A summary of the permits issued to Significant Industrial Users since the last annual report.

h. POTW and self-monitoring results for Significant Industrial Users determined to be in significant non-compliance during the reporting period.

i. Results of the POTW's influent/effluent/sludge sampling, not previously submitted to DEQ.

j. Copies of newspaper publications of all Significant Industrial Users in significant non-compliance during the reporting period. This is due no later than March 31 of each year.

k. Signature of an authorized representative.

6. The DEQ may require the POTW to institute changes to the legal authority regarding Significant Industrial User permit(s):

a. If the legal authority does not meet the requirements of the Clean Water Act, Water Control Law or State regulations;

b. If problems such as interferences, pass-through, violations of water quality standards or sludge contamination develop or continue; and

c. If federal, state or local requirements change.

*A significant industrial user is one that:

(1) Has a process wastewater (**) flow of 25,000 gallons or more per average day;
(2) Contributes a process wastestream which makes up 5-percent or more of the average dry weather hydraulic or organic capacity of the POTW;
(3) Is subject to the categorical pretreatment standards; or
(4) Has significant impact, either singularly or in combination with other Significant Dischargers, on the treatment works or the quality of its effluent.

**Excludes sanitary, non-contact cooling water and boiler blowdown.

D. Special Condition - Whole Effluent Toxicity Testing

1. Biological Monitoring:

Beginning within 6 months of the issuance of a Certificate to Operate

PART I

D. Special Condition - Whole Effluent Toxicity Testing (Continued)

(CTO) for the treatment works, the permittee shall conduct quarterly acute and chronic toxicity tests using 24-hour flow-proportioned composite samples of final effluent from outfall 001, until a minimum of 10 sets, for each test, have been completed.

a. The acute tests to use are:

48 Hour Static Acute Test Using *Ceriodaphnia dubia*

48 Hour Static Acute Test Using *Pimephales promelas*

These acute tests shall be performed with a minimum of 5 dilutions, each derived geometrically, with a minimum of 4 replicates, with 5 organisms in each, for calculation of a valid NOAEC. Tests in which control survival is less than 90% are not acceptable.

b. The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Tests in which control survival is less than 80% are not acceptable. A re-test of a non-acceptable test must be performed during the same compliance period as the test it is replacing. The test NOEC must be expressed as TU_c (Chronic Toxic Units), for reporting, by dividing 100/NOEC. The test report must include the LC_{50} at 48 hours and the IC25 with the NOECs.

c. The test dilutions should be able to determine compliance with the following endpoints:

(1) Acute NOAEC = 100%

(2) Chronic NOEC $\geq$ 17% equivalent to a $TU_c \leq 5.88$.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

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D. Special Condition - Whole Effluent Toxicity Testing (Continued)

e. The permittee shall perform the quarterly toxicity tests within the quarters of January-March, April-June, July-September, and October-December, and submit the tests by the 10th of the second month following the quarter.

f. The test data will be evaluated by STATS.EXE for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 1.a.& b. may be discontinued.

The permit may be modified or revoked and reissued to include specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

If after evaluating the data, it is determined that no limit is needed, the permittee shall continue acute and chronic toxicity testing (using both species) annually, in accordance with a reporting schedule to be provided by the Department of Environmental at the conclusion of the evaluation.

E. Special Condition - PCBs Minimization and Monitoring

The permittee has completed low-detection level, congener specific monitoring of the effluent for PCBs under previous Permit No. VA0090531.

1. Pollutant Minimization Plan (PMP):

The PCB monitoring results for the effluent indicate a reasonable potential to exceed the water quality criterion and indicate an actual exceedance of the wasteload allocation specified in the PCB TMDL for Levisa Fork in Buchanan County, approved by EPA on March 18, 2011. The permittee shall submit to the DEQ, Southwest Regional Office, for review and approval, a Pollutant Minimization Plan (PMP) designed to investigate the location and potential reduction of sources of PCBs in the collection system. The PMP shall be submitted within 180 days of the issuance of a Certificate to Operate for the wastewater treatment plant.

The PMP shall detail the practices and procedures which will be followed to investigate the location and potential reduction of sources of PCBs. This PMP shall require, but not necessarily be limited to, the following actions by the permittee, as appropriate:

a. Provide a facility contact for the contents of the PMP and any activities associated with the PMP;

b. Provide a proposed implementation schedule for minimization activities and prospective milestones;

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E. Special Condition - PCBs Minimization and Monitoring (Continued)

c. Establish a baseline for PCBs in the final effluent, if the current baseline is inadequate;

d. Propose actions for known or probable sources;

e. Propose actions to find and control unknown sources;

f. Summarize any previous minimization activities;

g. Present methods for measuring, demonstrating, and reporting progress:
   (1) May include an evaluation of the total PCBs and/or PCB congener distribution in the initial source intake water to determine the net contributions of PCBs introduced to the treatment works.
   (2) May include raw influent testing using either grab or composite samples as well as sampling upstream in the collection system. Screening methods may be utilized to target specific areas of interest.
   (3) Alternative PCB test methods are acceptable provided analytical sensitivity is sufficient for detection and quantification.
   (4) May perform further monitoring of the final effluent to determine effectiveness of the reduction efforts.

h. Estimate the PCB load reduction provided by treatment; and

i. Provide information on continuing assessment of progress, which may include establishment of criteria to evaluate whether the location and potential reduction of PCB sources has been addressed, and whether a more routine follow-up awareness, education, and inspection approach is appropriate.

2. Pollutant Minimization Plan (PMP) Annual Report

An Annual Report shall be submitted to DEQ-SWRO, for review and approval, for the previous year's PMP activities, by February 10th of the year following the year in which the Certificate to Operate was issued for the wastewater treatment plant. The Annual Report shall:

(1) Summarize PMP Achievement for investigating the location and potential reduction of sources of PCBs in the collection system during the past calendar year;

(2) Address any revisions needed for the PMP for the coming year;

(3) Address material and process modifications, if applicable;

(4) Summarize measures taken to address known, probable and potential sources; and

(5) Discuss incremental and cumulative changes from the baseline loading.

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F. Other Requirements or Special Conditions

1. *95% Capacity Reopener:* A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to the DEQ, Southwest Regional Office, 355-A Deadmore St., Abingdon, Virginia, 24210, when the monthly average flow influent to the wastewater treatment plant reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the Southwest Regional Office no later than ninety (90) days from the third consecutive month for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of the permit.

2. *Indirect Dischargers:* The permittee shall provide adequate notice to the Department of the following:

   a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Section 301 or 306 of the Clean Water Act and the State Water Control Law if it were directly discharging those pollutants; and

   b. Any substantial change in the volume or character of the pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of this permit. Adequate notice shall include information on (i) the quality and quantity of effluent introduced into the treatment works, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the treatment works.

3. *CTC, CTO Requirement: CTC, CTO Requirement:* The permittee shall, in accordance with the DEQ Sewage Collection and Treatment Regulation (9VA25-790), obtain a Certificate to Construct (CTC) and a Certificate to Operate (CTO) from the DEQ Southwest Regional Office, prior to constructing wastewater treatment works and operating the treatment works, respectively. Non-compliance with the CTC or CTO shall be deemed a violation of the permit.

4. *Operation and Maintenance Manual Requirement* The permittee shall maintain a current Operations and Maintenance (O&M) Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31 and Sewage Collection and Treatment Regulations, 9 VAC25-790.

   The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the

PART I

F. Other Requirements or Special Conditions
(Continued)

O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ Regional Office for review and approval.

The O&M manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Permitted outfall locations and techniques to be employed in the collection, preservation, and analysis of effluent, storm water and sludge samples;
b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
c. Discussion of Best Management Practices, if applicable;
d. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants that will prevent these materials from reaching state waters. List of the type and quantity of wastes, fluids, and pollutants (e.g. chemicals) stored at this facility;
e. Discussion of treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping; and,
f. Plan for the management and/or disposal of waste solids and residues.
g. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance.
h. List of facility, local and state emergency contacts; and
i. Procedures for reporting and responding to any spills, overflows, and treatment works upsets.

5. *Licensed Operator Requirement:* The permittee shall employ or contract at least one Class II licensed wastewater works operator wastewater works operator for the treatment works. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators and Onsite Sewage System Professional Regulations. The permittee shall notify the Department in writing whenever he is not complying, or has grounds for anticipating that he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

6. *Reliability Class:* The permitted treatment works shall meet Reliability Class II.

7. *Treatment Works Closure Plan:* If the permittee plans an expansion or upgrade to replace the existing treatment works, or if the facility is permanently closed, the permittee shall submit to the DEQ Regional Office a closure plan for the existing treatment works. The plan shall address the following information as a minimum: Verification of elimination of sources and/or alternate treatment scheme; treatment, removal and final disposition of residual wastewater and solids; removal, demolition, or

PART I

F. Other Requirements or Special Conditions
(Continued)

disposal of structures, equipment, piping, and appurtenances; site grading, and erosion and sediment control; restoration of site vegetation; access control; fill materials; and proposed land use (post-closure) of the site. The plan should contain proposed dates for beginning and completion of the work. The plan must be approved by the DEQ prior to implementation. Once approved, the plan shall become an enforceable part of this permit and closure shall be implemented in accordance with the approved plan. No later than 14 calendar days following closure completion, the permittee shall submit to the Southwest Regional Office written verification of the closure completion date and a certification of closure in accordance with the approved plan.

8. *Section 303(d) List (TMDL) Reopener:* This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the treatment works that are not consistent with the permit requirements.

9. *Sludge Reopener:* The Board may promptly modify or revoke and reissue this permit if any applicable standard for sewage sludge use or disposal promulgated under Section 405 (d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

10. *Sludge Use and Disposal:* The permittee shall conduct all sewage sludge use or disposal activities in accordance with the Sludge Management Plan (SMP) approved with the issuance of this permit. Any proposed changes in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ approval 90 days prior to the effective date of the changes. Upon approval, the SMP becomes an enforceable part of the permit. The permit may be modified or alternatively revoked and reissued to incorporate limitations or conditions necessitated by substantive changes in sewage sludge use or disposal practices. The sludge management plan consists of transporting the dried sludge to the Tazewell County Landfill or the BFI Carter Valley Landfill in Church Hill, Tennessee.

11. *Water Quality Criteria Monitoring in Attachment A:* The permittee shall monitor the effluent at outfall 001 for the substances noted in Attachment A, "Water Quality Criteria Monitoring", according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be initiated within 180 days of the issuance of the Certificate to Operate for the wastewater treatment plant, if this date occurs prior to the expiration date of this permit. Using Attachment A as the reporting form, the data shall be submitted with the next application for reissuance, if possible, which is due at least 180 days prior to the expiration date of this permit.

PART I

F. Other Requirements or Special Conditions
(Continued)

Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative approved methods. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

12. *Ammonia Nitrogen Removal:* The permittee shall insure that the design and operation goals of this treatment works is to consistently achieve the following ammonia nitrogen goals, which were derived from EPA's AQUATIC LIFE AMBIENT WATER QUALITY CRITERIA FOR AMMONIA - FRESHWATER 2013:

Monthly Average: 2.5 mg/l
Weekly Average: 3.2 mg/l

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements required by this permit shall be taken at the permit designated or approved location and representative of the monitored activity.

   a. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

   b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

   c. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

2. Any pollutant specifically addressed by this permit that is sampled or measured at the permit designated or approved location more frequently than required by this permit shall meet the requirements in A 1 through c above and the results of this monitoring shall be included in the calculations and reporting required by this permit.

3. Operational or process control samples or measurements shall not be taken at the designated permit sampling or measurement locations. Operational or process control samples or measurements do not need to follow procedures approved under Title 40 Code of Federal Regulations Part 136 or be analyzed in accordance with IVAC30-45, Certification for Noncommercial Environmental Laboratories, or IVAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records.

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Southwest Regional Office
   355-A Deadmore Street
   Abingdon, VA 24210

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;

2. The cause of the discharge;

3. The date on which the discharge occurred;

4. The length of time that the discharge continued;

5. The volume of the discharge;

6. If the discharge is continuing, how long it is expected to continue;

7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;

2. Breakdown of processing or accessory equipment;

3. Failure or taking out of service some or all of the treatment works; and

4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Southwest Regional Office at (276) 676-4800 (voice) or (276) 676-4899 (fax), on online at:
http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx.
For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:
   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
   c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
   a. The authorization is made in writing by a person described in Part II K 1;
   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or

an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of Bypass.

   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which

occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II U 2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II I; and
   d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

FACILITY NAME: Big Rock/Conaway WWTP
Permit No. VA0092916
ADDRESS: P.O. Box 30
Vansant, VA 24656

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WATER QUALITY CRITERIA MONITORING

OUTFALL NO. 001 – 2.7 MGD

Effective January 1, 2012, all analyses shall be in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

A listing of Virginia Environmental Laboratory Accreditation Program (VELAP) certified and/or accredited laboratories can be found at the following website:
http://www.dgs.state.va.us/DivisionofConsolidatedLaboratoryServices/Services/EnvironmentalLaboratoryCertification/tabid/1059/Default.aspx

Please be advised that additional water quality analyses may be necessary and/or required for permitting purposes.

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	500		C	1/5 YR
7440-38-2	Arsenic, dissolved	(3)	500		C	1/5 YR
7440-43-9	Cadmium, dissolved	(3)	6.5		C	1/5 YR
16065-83-1	Chromium III, dissolved [6]	(3)	400		C	1/5 YR
18540-29-9	Chromium VI, dissolved [6]	(3)	46		C	1/5 YR
7440-50-8	Copper, dissolved	(3)	53		C	1/5 YR
7439-92-1	Lead, dissolved	(3)	95		C	1/5 YR
7439-97-6	Mercury, dissolved	(3)	3.2		C	1/5 YR
7440-02-0	Nickel, dissolved	(3)	100		C	1/5 YR
7782-49-2	Selenium, Total Recoverable	(3)	21		C	1/5 YR
7440-22-4	Silver, dissolved	(3)	26		C	1/5 YR
7440-28-0	Thallium, dissolved	(3)	(5)		C	1/5 YR
7440-66-6	Zinc, dissolved	(3)	500		C	1/5 YR
PESTICIDES/PCBs						
309-00-2	Aldrin	608/625	0.05		C	1/5 YR
57-74-9	Chlordane	608/625	0.2		C	1/5 YR
2921-88-2	Chlorpyrifos (synonym = Dursban)	622	(4)		C	1/5 YR
72-54-8	DDD	608/625	0.1		C	1/5 YR
72-55-9	DDE	608/625	0.1		C	1/5 YR

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50-29-3	DDT	608/625	0.1		C	1/5 YR
8065-48-3	Demeton (synonym = Dementon-O,S)	622	(4)		C	1/5 YR
333-41-5	Diazinon	622	(4)		C	1/5 YR
60-57-1	Dieldrin	608/625	0.1		C	1/5 YR
959-98-8	Alpha-Endosulfan (synonym = Endosulfan I)	608/625	0.1		C	1/5 YR
33213-65-9	Beta-Endosulfan (synonym = Endosulfan II)	608625	0.1		C	1/5 YR
1031-07-8	Endosulfan Sulfate	608/625	0.1		C	1/5 YR
72-20-8	Endrin	608/625	0.1		C	1/5 YR
7421-93-4	Endrin Aldehyde	608/625	(4)		C	1/5 YR
86-50-0	Guthion (synonym = Azinphos Methyl)	622	(4)		C	1/5 YR
76-44-8	Heptachlor	608/625	0.05		C	1/5 YR
1024-57-3	Heptachlor Epoxide	608/625	(4)		C	1/5 YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608/625	(4)		C	1/5 YR
319-85-7	Hexachlorocyclohexane Beta-BHC	608/625	(4)		C	1/5 YR
58-89-9	Hexachlorocyclohexane Gamma-BHC (syn. = Lindane)	608/625	(4)		C	1/5 YR
121-75-5	Malathion	614	(4)		C	1/5 YR
72-43-5	Methoxychlor	608.2	(4)		C	1/5 YR
2385-85-5	Mirex	8081 Extended/ 8270C/8270D	(4)		C	1/5 YR
56-38-2	Parathion (synonym = Parathion Ethyl)	614	(4)		C	1/5 YR
1336-36-3	PCB, total	608/625	7.0		C	1/5 YR
8001-35-2	Toxaphene	608/625	5.0		C	1/5 YR
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	610/625	10.0		C	1/5 YR
120-12-7	Anthracene	610/625	10.0		C	1/5 YR
92-87-5	Benzidine	625	(4)		C	1/5 YR
56-55-3	Benzo (a) anthracene	610/625	10.0		C	1/5 YR

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205-99-2	Benzo (b) fluoranthene	610/625	10.0		C	1/5 YR
207-08-9	Benzo (k) fluoranthene	610/625	10.0		C	1/5 YR
50-32-8	Benzo (a) pyrene	610/625	10.0		C	1/5 YR
111-44-4	Bis 2-Chloroethyl Ether	625	(4)		C	1/5 YR
108-60-1	Bis 2-Chloroisopropyl Ether	625	(4)		C	1/5 YR
117-81-7	Bis 2-Ethylhexyl Phthalate (syn. = Di-2-Ethylhexyl Phthalate)	625	10.0		C	1/5 YR
85-68-7	Butyl benzyl phthalate	625	10.0		C	1/5 YR
91-58-7	2-Chloronaphthalene	625	(4)		C	1/5 YR
218-01-9	Chrysene	610/625	10.0		C	1/5 YR
53-70-3	Dibenzo (a,h) anthracene	610/625	20.0		C	1/5 YR
95-50-1	1,2-Dichlorobenzene	602/624	10.0		C	1/5 YR
541-73-1	1,3-Dichlorobenzene	602/624	10.0		C	1/5 YR
106-46-7	1,4-Dichlorobenzene	602/624	10.0		C	1/5 YR
91-94-1	3,3-Dichlorobenzidine	625	(4)		C	1/5 YR
84-66-2	Diethyl phthalate	625	10.0		C	1/5 YR
131-11-3	Dimethyl phthalate	625	(4)		C	1/5 YR
84-74-2	Di-n-butyl Phthalate (synonym = Dibutyl Phthalate)	625	10.0		C	1/5 YR
121-14-2	2,4-Dinitrotoluene	625	10.0		C	1/5 YR
122-66-7	1,2-Diphenylhydrazine	625/ 8270C/8270D	(4)		C	1/5 YR
206-44-0	Fluoranthene	610/625	10.0		C	1/5 YR
86-73-7	Fluorene	610/625	10.0		C	1/5 YR
118-74-1	Hexachlorobenzene	625	(4)		C	1/5 YR
87-68-3	Hexachlorobutadiene	625	(4)		C	1/5 YR
77-47-4	Hexachlorocyclopentadiene	625	(4)		C	1/5 YR
67-72-1	Hexachloroethane	625	(4)		C	1/5 YR
193-39-5	Indeno(1,2,3-cd)pyrene	610/625	20.0		C	1/5 YR

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CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
78-59-1	Isophorone	625	10.0		C	1/5 YR
98-95-3	Nitrobenzene	625	10.0		C	1/5 YR
62-75-9	N-Nitrosodimethylamine	625	(4)		C	1/5 YR
621-64-7	N-Nitrosodi-n-propylamine	625	(4)		C	1/5 YR
86-30-6	N-Nitrosodiphenylamine	625	(4)		C	1/5 YR
129-00-0	Pyrene	610/625	10.0		C	1/5 YR
120-82-1	1,2,4-Trichlorobenzene	625	10.0		C	1/5 YR
	VOLATILES					
107-02-8	Acrolein	624	(4)		G	1/5 YR
107-13-1	Acrylonitrile	624	(4)		G	1/5 YR
71-43-2	Benzene	602/624	10.0		G	1/5 YR
75-25-2	Bromoform	624	10.0		G	1/5 YR
56-23-5	Carbon Tetrachloride	624	10.0		G	1/5 YR
108-90-7	Chlorobenzene (synonym = Monochlorobenzene)	602/624	50.0		G	1/5 YR
124-48-1	Chlorodibromomethane	624	10.0		G	1/5 YR
67-66-3	Chloroform	624	10.0		G	1/5 YR
75-27-4	Dichlorobromomethane	624	10.0		G	1/5 YR
107-06-2	1,2-Dichloroethane	624	10.0		G	1/5 YR
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/5 YR
156-60-5	1,2-trans-dichloroethylene	624	(4)		G	1/5 YR
78-87-5	1,2-Dichloropropane	624	(4)		G	1/5 YR
542-75-6	1,3-Dichloropropene	624	(4)		G	1/5 YR
100-41-4	Ethylbenzene	602/624	10.0		G	1/5 YR
74-83-9	Methyl Bromide (synonym = Bromomethane)	624	(4)		G	1/5 YR
75-09-2	Methylene Chloride (synonym = Dichloromethane)	624	20.0		G	1/5 YR
79-34-5	1,1,2,2-Tetrachloroethane	624	(4)		G	1/5 YR

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127-18-4	Tetrachloroethylene (synonym = Tetrachloroethene)	624	10.0		G	1/5 YR
10-88-3	Toluene	602/624	10.0		G	1/5 YR
79-00-5	1,1,2-Trichloroethane	624	(4)		G	1/5 YR
79-01-6	Trichloroethylene (synonym = Trichloroethene)	624	10.0		G	1/5 YR
75-01-4	Vinyl Chloride	624	10.0		G	1/5 YR
ACID EXTRACTABLES						
95-57-8	2-Chlorophenol	625	10.0		C	1/5 YR
120-83-2	2,4 Dichlorophenol	625	10.0		C	1/5 YR
105-67-9	2,4 Dimethylphenol	625	10.0		C	1/5 YR
51-28-5	2,4-Dinitrophenol	625	(4)		C	1/5 YR
534-52-1	2-Methyl-4,6-Dinitrophenol	625	(4)		C	1/5 YR
25154-52-3	Nonylphenol	ASTM D 7065-06	(4)		C	1/5 YR
87-86-5	Pentachlorophenol	625	50.0		C	1/5 YR
108-95-2	Phenol	625	10.0		C	1/5 YR
88-06-2	2,4,6-Trichlorophenol	625	10.0		C	1/5 YR
MISCELLANEOUS						
16887-00-6	Chloride	(3)	(4)		C	1/5 YR
57-12-5	Cyanide, Free [8]	ASTM 4282-02	10.0		G	1/5 YR
18496-25-8	Sulfide, dissolved [7]	SM 4500 S^2 B	100		C	1/5 YR
471-34-1	Hardness (mg/L as $CaCO_3$)	(3)	(4)		C	1/5 YR

Name of Principal Executive Officer or Authorized Agent & Title

Signature of Principal Executive Officer or Authorized Agent & Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

FOOTNOTES:

(1) Quantification level (QL) means the minimum levels, concentrations, or quantities of a target variable (e.g. target analyte) that can be reported with a specified degree of confidence in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information (i.e. laboratory certificates of analysis) shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

(3) A specific analytical method is not specified; however, an appropriate method to meet the QL shall be selected from any approved method presented in 40 CFR Part 136.or (ii) any alternative EPA approved method, provided that all analyses are in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

(4) The QL is at the discretion of the permittee. If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

(5) Analytical Methods: Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996 (currently the only Virginia Environmental Laboratory Accreditation Program (VELAP) accredited method).

(6) Both Chromium III and Chromium VI may be measured by the total chromium analysis. The total chromium analytical test QL shall be less than or equal to the lesser of the Chromium III or Chromium VI method QL listed above. If the result of the total chromium analysis is less than the analytical test QL, both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

(7) Dissolved sulfide may be measured by the total sulfide analysis. The total sulfide analytical test QL shall be less than or equal to the dissolved sulfide method QL listed above. If the result of the total sulfide analysis is less than the analytical test QL, dissolved sulfide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

(8) Free cyanide may be measured by the total cyanide analysis. The total cyanide analytical test QL shall be less than or equal to the free cyanide method QL listed above. If the result of the total cyanide analysis is less than the analytical test QL, free cyanide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].