## List of Appendices


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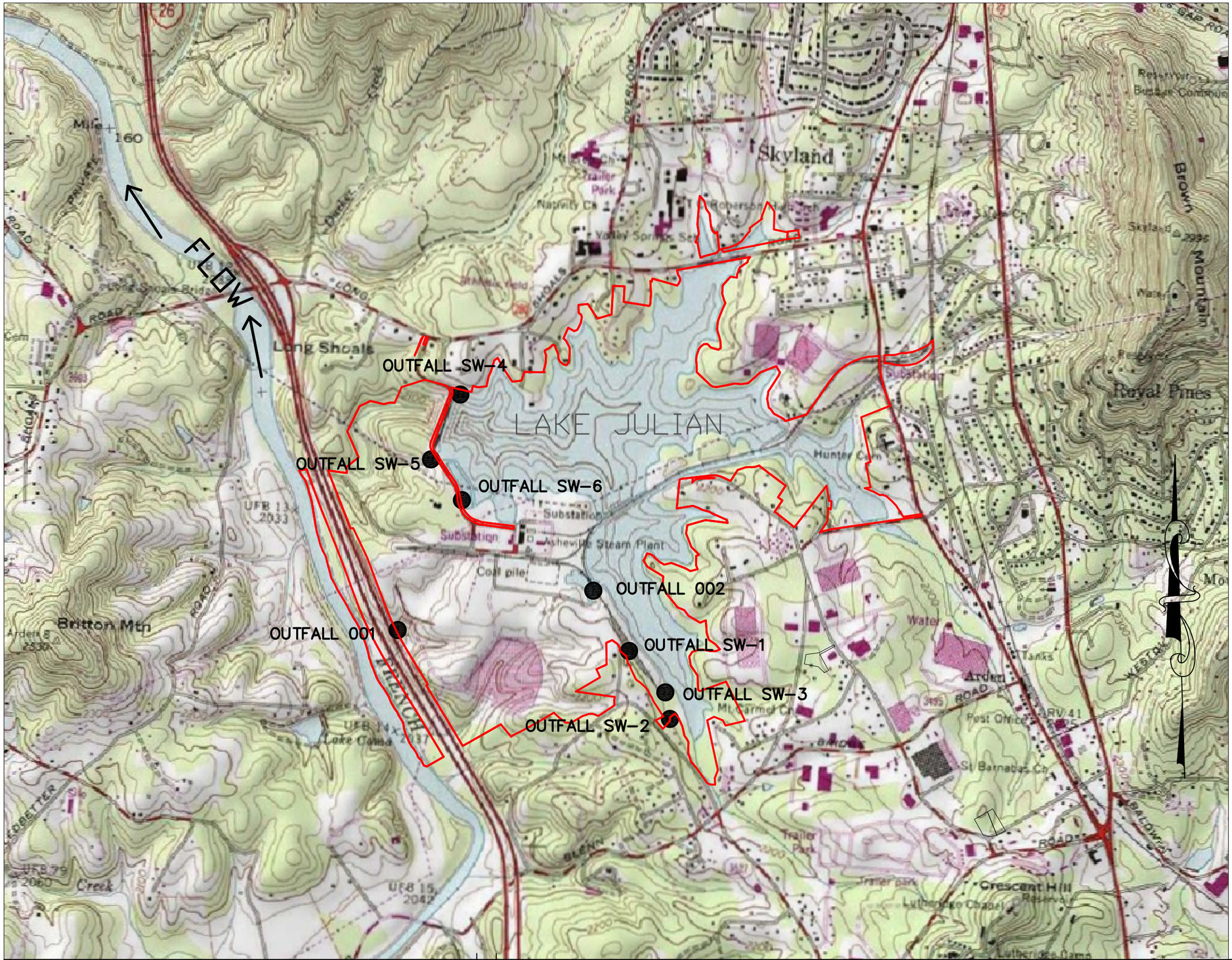
## Figures

Questions 2, 4, 11 and 13




LEGEND:

- PROGRESS ENERGY SITE BOUNDARIES
- OUTFALL

REFERENCES:

1. THIS MAP WAS COMPILED USING USGS 7.5 MINUTE TOPO QUAD SKYLAND.

1500 0 750 1500

SCALE IN FEET

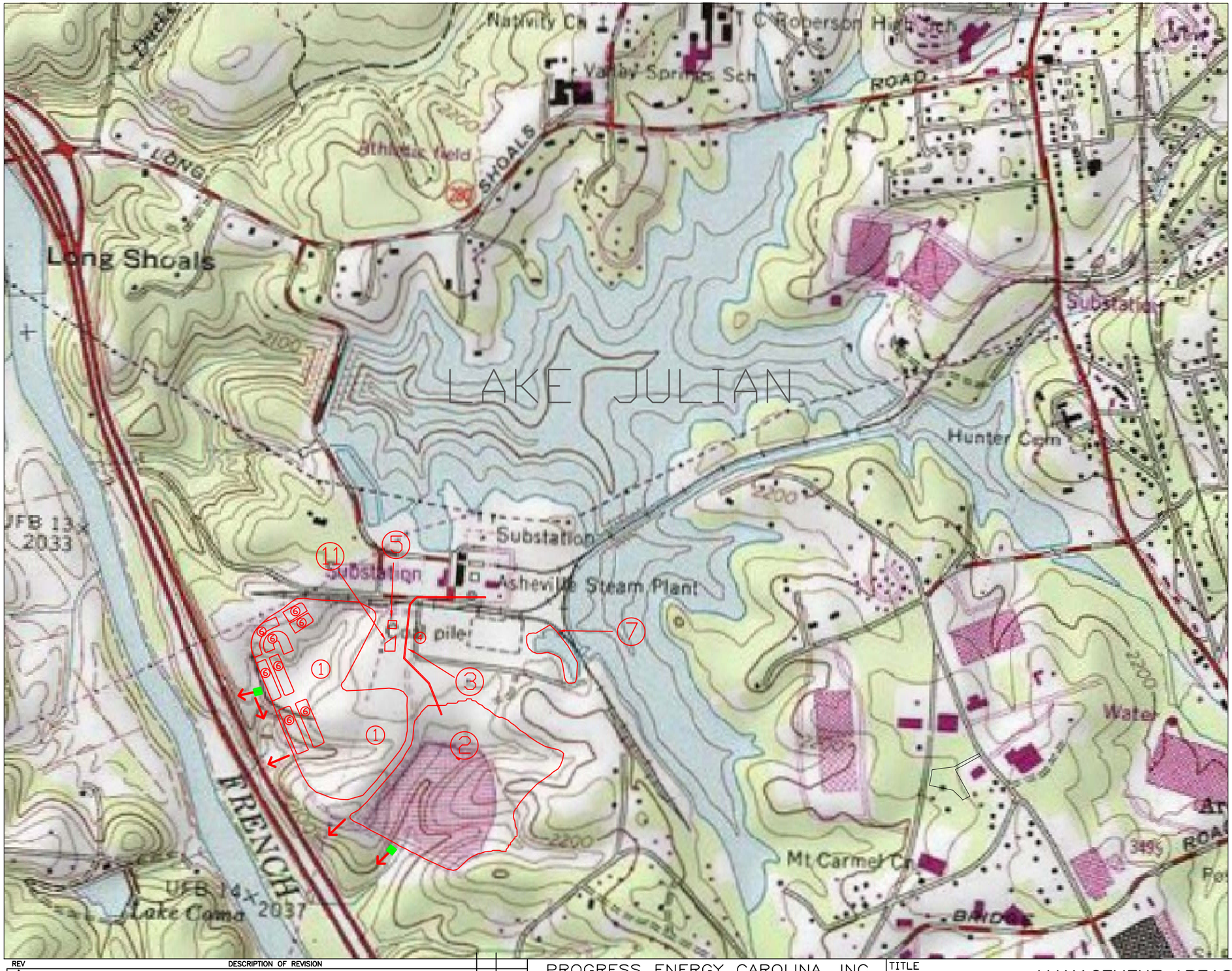
Progress Energy Carolinas, Inc., Asheville Plant

| REV | DESCRIPTION OF REVISION | BY | DATE |
|---|---|---|---|
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |

PROGRESS ENERGY CAROLINA, INC.
Asheville Steam Electric Plant
200 CP&L Drive
Arden, NC 28704

TITLE
**USGS TOPO QUAD**

| | |
|---|---|
| 07/16/10 | JOB NO. 31827297 |
| B. Barham | SKETCH NO. |
| M. Mayfield | FIGURE 1 |




LEGEND:

1. OLD ASH POND '64
2. CURRENT ASH POND '82
3. ASH SLUICE PIPES
4. GYPSUM STORAGE DOME
5. FGD WASTEWATER TREATMENT SYSTEM
6. CONSTRUCTED WETLANDS TREATMENT SYSTEM
7. HOT POND
11. BOILER CLEANING WASTE BASIN

→ SEEPAGE FLOW (ESTIMATED)

■ SEEPAGE FLOW MONITORING WEIR

REFERENCES:

1. THIS MAP WAS COMPILED USING USGS 7.5 MINUTE TOPO QUAD SKYLAND.

900 0 450 900

SCALE IN FEET

Attachements Page 4

Progress Energy Carolinas, Inc., Asheville Plant

| REV | DESCRIPTION OF REVISION | BY | DATE |
|---|---|---|---|
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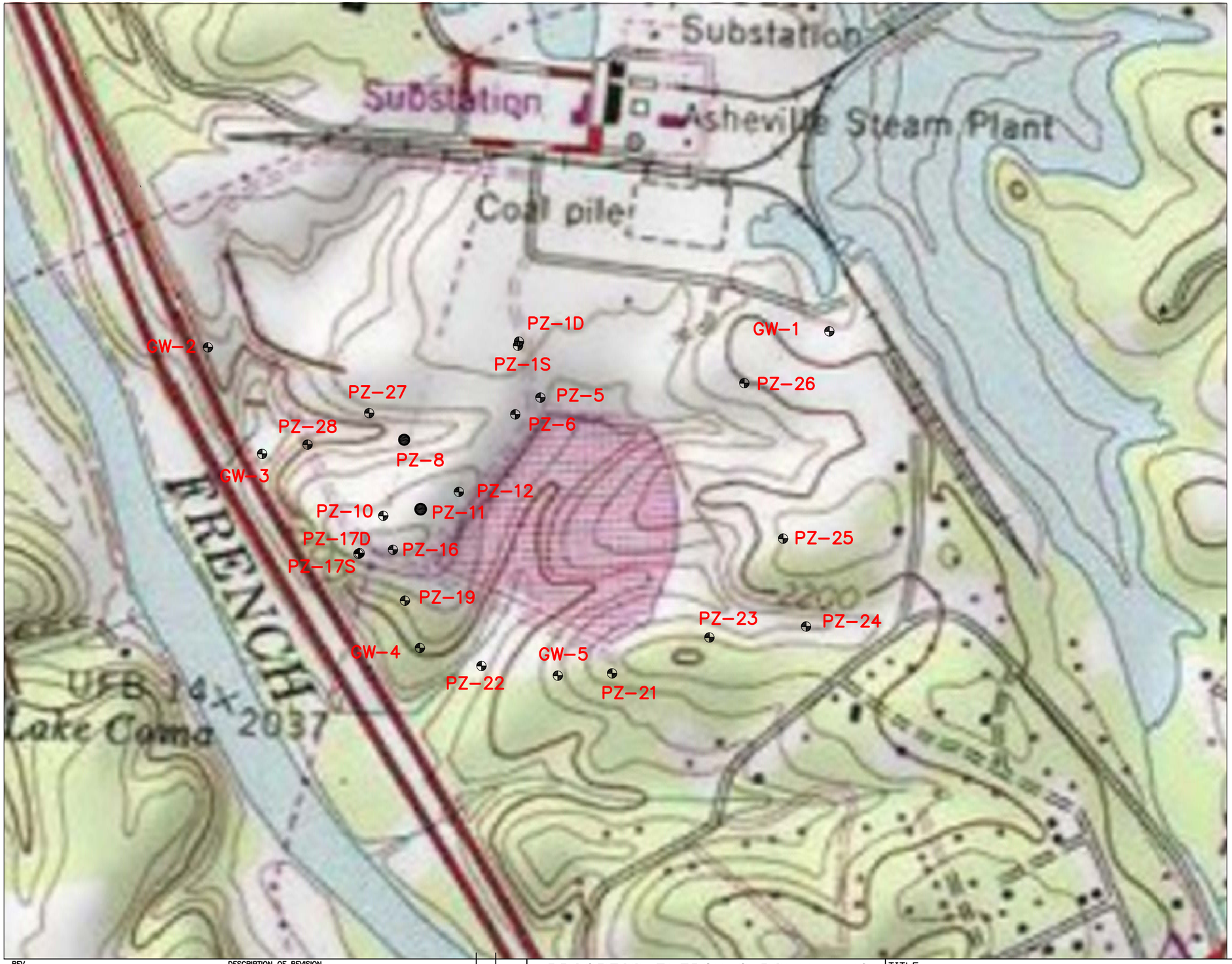
PROGRESS ENERGY CAROLINA, INC.
Asheville Steam Electric Plant
200 CP&L Drive
Arden, NC 28704

TITLE
MANAGEMENT AREAS

| | |
|---|---|
| 07/16/10 | JOB NO. 31827297 |
| B. Barham | SKETCH NO. |
| M. Mayfield | FIGURE 2 |




LEGEND:

- EXISTING WELLS
- ABANDONED WELLS

REFERENCES:

1. THIS MAP WAS COMPILED USING USGS 7.5 MINUTE TOPO QUAD SKYLAND.

400 0 200 400

SCALE IN FEET

Progress Energy Carolinas, Inc., Asheville Plant

| REV | DESCRIPTION OF REVISION | BY | DATE |
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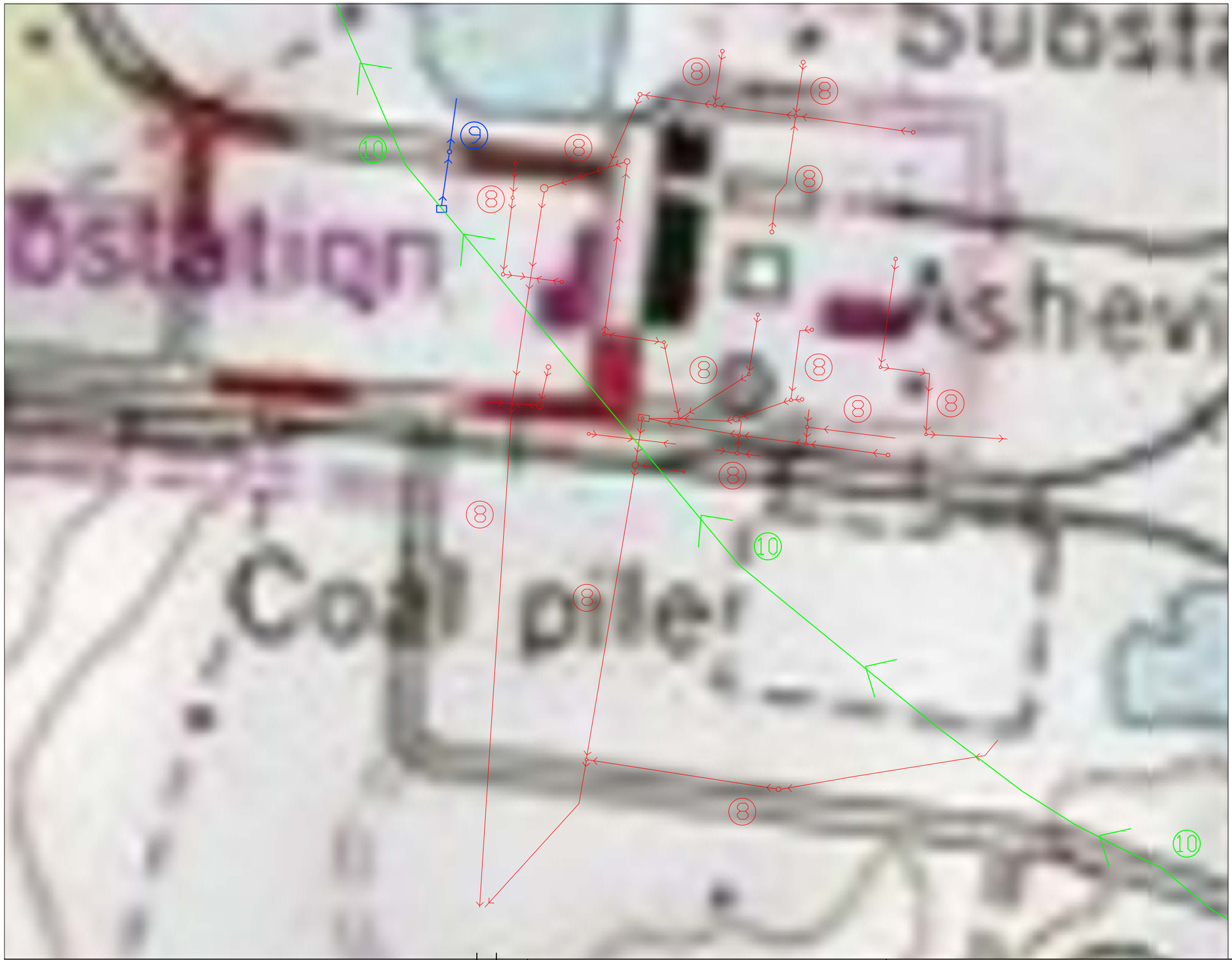
PROGRESS ENERGY CAROLINA, INC.
Asheville Steam Electric Plant
200 CP&L Drive
Arden, NC 28704

TITLE: GROUNDWATER MONITORING LOCATIONS

07/16/10
B. Barham
M. Mayfield

JOB NO. 31827297
SKETCH NO.
FIGURE 3




LEGEND:

- CATCH BASIN
- (8) STORM DRAINAGE TO ASH POND (WITH FLOW DIRECTION)
- (9) ADMINISTRATION BUILDING STORM DRAINAGE (WITH FLOW DIRECTION)
- (10) ESTIMATED SANITARY SEWER (WITH FLOW DIRECTION)

REFERENCES:

1. THIS MAP WAS COMPILED USING USGS 7.5 MINUTE TOPO QUAD SKYLAND.

150 0 75 150

SCALE IN FEET

Attachements Page 6

Progress Energy Carolinas, Inc., Asheville Plant

| REV | DESCRIPTION OF REVISION | BY | DATE |
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PROGRESS ENERGY CAROLINA, INC.
Asheville Steam Electric Plant
200 CP&L Drive
Arden, NC 28704

TITLE
# STORM DRAINAGE AND SANITARY PIPING

| | |
|---|---|
| 07/16/10 | JOB NO. 31827297 |
| B. Barham | SKETCH NO. |
| M. Mayfield | FIGURE 4 |

LEGEND:

- ◯ CATCH BASIN
- (8) STORM DRAINAGE TO ASH POND (WITH FLOW DIRECTION)
- (9) ADMINISTRATION BUILDING STORM DRAINAGE (WITH FLOW DIRECTION)
- (10) ESTIMATED SANITARY SEWER (WITH FLOW DIRECTION)

REFERENCES:

1. AERIAL IMAGE WAS OBTAINED FROM THE NATIONAL AGRICULTURAL IMAGERY PROGRAM (2008).

150 0 75 150

SCALE IN FEET

Attachements Page 7

Progress Energy Carolinas, Inc., Asheville Plant

| REV | DESCRIPTION OF REVISION | BY | DATE |
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PROGRESS ENERGY CAROLINA, INC.
Asheville Steam Electric Plant
200 CP&L Drive
Arden, NC 28704

TITLE: STORM DRAINAGE AND SANITARY PIPING

| | |
|---|---|
| 07/16/10 | JOB NO. 31827297 |
| B. Barham | SKETCH NO. |
| M. Mayfield | FIGURE 4A |

**Appendix A**

2005 NPDES Permit Renewal Application
Questions 3 and 9

12520-D-01

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director
Division of Water Quality

June 22, 2005

Mr. William Phipps
Asheville Steam Electric Plant
200 CP&L Drive
Arden, NC 28704

Subject: Receipt of permit renewal application
NPDES Permit NC0000396
Asheville Steam Electric Plant
Buncombe County

Dear Mr. Phipps:

The NPDES Unit received your permit renewal application on June 22, 2005. A member of the NPDES Unit will review your application. They will contact you if additional information is required to complete your permit renewal. You should expect to receive a draft permit approximately 30-45 days before your existing permit expires. **The requirements in your existing permit will remain in effect until the permit is renewed (or the Division takes other action).**

If you have any additional questions concerning renewal of the subject permit, please contact me at (919) 733-5083, extension 520.

Sincerely,

Frances Candelaria

Frances Candelaria
Point Source Branch

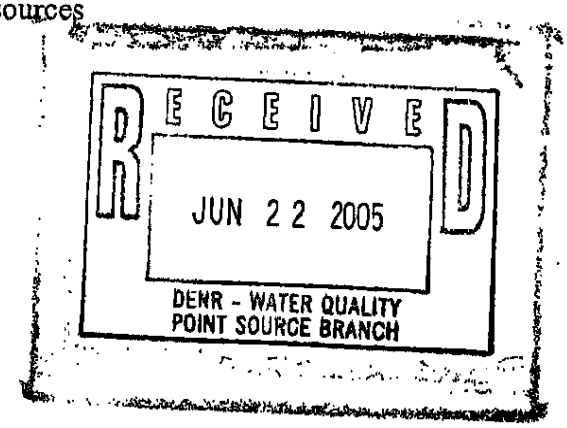
cc: CENTRAL FILES
Asheville Regional Office/Water Quality Section
NPDES Unit

Progress Energy

June 21, 2005

File: 12520 B1

Mr. David Goodrich
North Carolina Department of Environment and Natural Resources
Division of Water Quality
1617 Mail Service Center
Raleigh, NC 27699-1617




Subject: CP&L d/b/a Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
NPDES Permit No. NC0000396
Reissuance Application

Dear Mr. Goodrich:

The current NPDES permit for Asheville Steam Electric Plant located in Buncombe County expires of December 31, 2005. Progress Energy hereby requests that the NPDES permit for the facility be reissued. Enclosed are EPA Application Form 1 – General Information, EPA Application Form 2C – Wastewater Discharge Information, and EPA Application Form 2F – Stormwater Discharges Associated with Industrial Activity, all in triplicate.

With reissuance of the NPDES permit, Progress Energy requests the following:

- Eliminate the requirement to monitor copper for once-through cooling water (Outfall 002). Monitoring data from 2001 to the present has demonstrated that copper concentrations are either below the detection limit of 0.010 mg/l or quantified at 0.004 mg/l or below. Copper monitoring was originally required due to suspected erosion of the Unit 1 condenser tubes. These copper condenser tubes were replaced with stainless steel tubes in 1994. Currently copper is monitored on a quarterly basis for Outfall 002

- The original permit was modified due to the addition of Flue Gas Desulfurization wastewater. The limit for mercury at Outfall 001 becomes effective one year after commencement of the FGD system to treat FGD wastewater. We request that the one year be started after the second unit's FGD wastewater begins discharging to the treatment facility. The FGD system for the first unit is projected to begin operation in November of 2005 and the FGD system for the second unit is projected to begin operation in June of 2006.

- Include a statement for Outfall 002 requiring the monitoring of total residual chlorine only if chlorine is added to the system.

**Progress Energy Carolinas, Inc.**
Asheville Steam Plant
200 CP&L Drive
Arden, NC 28704

- Eliminate the analytical monitoring requirements for stormwater. The results of the permit required monitoring and renewal monitoring demonstrate that stormwater runoff from the access roads was not contaminated due to plant related traffic.

- Reduce the monitoring frequency for oil and grease and total residual solid at outfall 001. Currently the permit required frequency for both is twice per month. Monthly monitoring should be sufficient to demonstrate compliance with the effluent limitations.

- A. (11). of the current NPDES permit for the Asheville Steam Electric Plant requires that Progress Energy request a continuation of its 316(a) variance beyond the term of the present permit. Enclosed is an EPA Guidance Letter dated August 11, 1988 outlining the general procedure to be followed in requesting the continuance of a 316(a) variance. The following is Progress Energy's response to the pertinent factors contained in the EPA General Procedure for the reissuance of the 316(a) variance:

    1. The permittee must request that the variance be continued

        Response: Progress Energy hereby requests continuation of the 316(a) variance reflected in it's present NPDES permit for the Asheville Steam Electric Plant.

    2. Plant operating conditions and load factors are unchanged and are expected to remain so for the term of the reissued permit

        Response: The plant operating conditions and load factors are unchanged and are expected to remain so for the term of the reissued permit.

    3. There are no changes to the permittee's knowledge to plant discharges or other discharges in the plant site area which could interact with thermal discharges.

        Response: To Progress Energy's knowledge there have been no changes to the Asheville Plant's discharges or other discharges to Lake Julian which could interact with the thermal discharges.

    4. There are no changes to the permittee's knowledge to the biotic community of the receiving water body which could impact the previous 316 (a) determinations.

        Response: As demonstrated by Progress Energy's Environmental Monitoring Reports, which are routinely submitted to the Director of the Division of Water Quality, since issuance of the current NPDES permit there have been no changes to the biotic community of Lake Julian which would impact the previous 316 (a) determinations.

- Asheville Plant's demonstration of compliance with 316(b) is presented in Attachment 8.

If there are any questions regarding the enclosed information, please contact Louise England at (919) 546-6318.

*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 fines and imprisonment for knowing violations.*

Sincerely,

William A. Phipps
Plant Manager

Attachments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

August 11, 1988

REF: 4WM-FP

Mr. Clyde Baldwin
Division of Water
KY Natural Resources & Environmental
Protection Cabinet
Fort Boone Plaza
18 Reilly Road
Frankfort, KY 40601

RE: 316 Guidance for Permit Reissuance

Dear Clyde Mr. Baldwin:

Questions have arisen as to what procedures and activities are necessary in reissuing a permit for a facility which has thermal limitations based on a previous variance granted under Section 316(a) of the Clean Water Act. The following is provided as a follow-up to information provided at the February 1988, EPA/State meeting in Destin, Florida.

A thermal variance granted under §316(a) terminates on expiration of the NPDES permit of which it is a part (Attachment A). Procedures for a reissuance are virtually unchanged from an initial determination. The amount of data necessary to support the variance at the time of reissuance will probably be minimal. However, if conditions have changed materially, a significant quantity of information may be needed.

NOTE: To the extent that permittees are unaware of these requirements, they should be notified of them expeditiously so that they can be prepared.

The general procedure is as follows:

1. The permittee must request that the variance be continued, preferably at the time of permit application. At that time, he should provide a basis for that continuance. The basis could be as simple as: (a) plant operating conditions and load factors are unchanged and are expected to remain so for the term of the reissued permit, (b) there are no changes (to his knowledge) to plant discharges or other discharges in the plant site area which could interact with the thermal discharges, and (c) there are no changes (to his knowledge) to the biotic community of the receiving water body which would impact the previous 316 determinations.

2. If the permitting authority agrees with the basis, appropriate permit conditions would be developed; otherwise, additional data would be requested as needed. Request for additional data must be made within 60 days of receipt of the application (Answer to Question 7, Attachment A). Additional studies can be made a permit requirement if needed (Answer to Question 7).

3. The Fact Sheet/Rationale should contain a summary of 316 variance activities from the previous permits (dates, determinations, limitations, etc.) and an indication of the proposed basis for continuing the 316 variance. Sample language is included in Attachment B.

4. The Public notice requirements are contained in §124.75(a). Sample language is also included in Attachment B.

Should you have have questions or need assistance, feel free to contact me at 404/347-3012.

Sincerely yours,

Charlie

Charles H. Kaplan, P.E.
National Expert Steam Electric/Water

Enclosures

cc: Mr. R. Bruce Scott

Identical letters sent to all states in Region IV

Please print or type in the unshaded areas only
*(fill-in areas are spaced for elite type, i.e., 12 characters/inch).*

Form Approved. OMB No. 2040-0086. Approval expires 5-31-92.

FORM 1 GENERAL

# EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

## GENERAL INFORMATION

*Consolidated Permits Program*

*(Read the "General Instructions" before starting)*

1. EPA I.D NUMBER: S F NC0000396 T/A C D

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

**PLEASE PLACE LABEL IN THIS SPACE**

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area*(s)* below. If the label is complete and correct, you need not complete Items I, III, V, and VI (*except VI-B which must be completed regardless*). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

## II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms.**

| SPECIFIC QUESTIONS | MARK "X" YES | NO | FORM ATTACHED | SPECIFIC QUESTIONS | MARK "X" YES | NO | FORM ATTACHED |
|---|---|---|---|---|---|---|---|
| A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A) | | X | | B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B) | | X | |
| | 16 | 17 | 18 | | 19 | 20 | 21 |
| C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C) | X | | X | D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D) | | X | |
| | 22 | 23 | 24 | | 25 | 26 | 27 |
| E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3) | | X | | F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4) | | X | |
| | 28 | 29 | 30 | | 31 | 32 | 33 |
| G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4) | | X | | H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4) | | X | |
| | 34 | 35 | 36 | | 37 | 38 | 39 |
| I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5) | | X | | J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5) | | X | |
| | 40 | 41 | 42 | | 43 | 44 | 45 |

## III. NAME OF FACILITY

C 1 SKIP: Asheville Steam Electric Plant

15 | 16 - 29 | 30 - 69

## IV. FACILITY CONTACT

| A. NAME & TITLE *(last, first, & title)* | B. PHONE *(area code & no.)* |
|---|---|
| C 2 Phipps, William Plant Manager | 828 687 5201 |
| 15 \| 16 - 45 | 46 - 48 \| 49 - 51 \| 52 - 55 |

## V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

C 3 200 CP&L Drive

15 | 16 - 45

| B. CITY OR TOWN | C. STATE | D. ZIP CODE |
|---|---|---|
| C 4 Arden | NC | 28704 |
| 15 \| 16 - 40 | 41 42 | 47 - 51 |

## VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

C 5 200 CP&L Drive

15 | 16 - 45

B. COUNTY NAME

Buncombe

46 - 70

| C. CITY OR TOWN | D. STATE | E. ZIP CODE | F. COUNTY CODE *(if known)* |
|---|---|---|---|
| C 6 Arden | NC | 28704 | |
| 15 \| 16 - 40 | 41 42 | 47 - 51 | 52 - 54 |

CONTINUED FROM THE FRONT

**VII. SIC CODES** *(4 digit in order of priority)*

| A. FIRST | B. SECOND |
|---|---|
| 4911 (specify) Electric Power Services | (specify) |
| **C. THIRD** | **D. FOURTH** |
| (specify) | (specify) |

**VIII. OPERATOR INFORMATION**

**A. NAME**

Carolina Power & Light d/b/a Progress Energy Carolinas, Inc.

**B.** Is the name listed in Item VIII-A also the owner? [X] YES [ ] NO

**C. STATUS OF OPERATOR** *(Enter the appropriate letter into the answer box; if "Other," specify.)*

F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC *(other than federal or state)*; O = OTHER *(specify)*

P (specify)

**D. PHONE** *(area code & no.)*

A 828 687 5201

**E. STREET OR P.O. BOX**

200 CP&L Drive

| F. CITY OR TOWN | G. STATE | H. ZIP CODE |
|---|---|---|
| Arden | NC | 28704 |

**IX. INDIAN LAND**

Is the facility located on Indian lands? [ ] YES [X] NO

**X. EXISTING ENVIRONMENTAL PERMITS**

| A. NPDES *(Discharges to Surface Water)* | D. PSD *(Air Emissions from Proposed Sources)* |
|---|---|
| 9 N NC0000396 | 9 P |
| **B. UIC** *(Underground Injection of Fluids)* | **E. OTHER** *(specify)* |
| 9 U | 9 11-628 (specify) WNCRAPCA Air Permit |
| **C. RCRA** *(Hazardous Wastes)* | **E. OTHER** *(specify)* |
| 9 R | 9 13407 (specify) Non-discharge permit (ash) |

**XI. MAP**

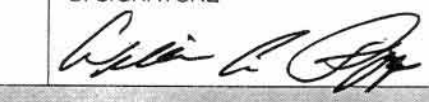
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

**XII. NATURE OF BUSINESS** *(provide a brief description)*

Electric Utility - This facility is an electric generating facility consisting of two coal-fired units with a total net capacity of 392 MWe and two Internal Combustion (IC) Turbines with a total net capacity of 330 MWe.

**XIII. CERTIFICATION** *(see instructions)*

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| A. NAME & OFFICIAL TITLE *(type or print)* | B. SIGNATURE | C. DATE SIGNED |
|---|---|---|
| William A. Phipps<br>Manager - Asheville Plant |  | 6/21/05 |

**COMMENTS FOR OFFICIAL USE ONLY**

Please print or type in the unshaded areas only.

**EPA I.D. NUMBER** *(copy from Item 1 of Form 1)*
NC0000396

Form Approved
OMB No. 2040-0086
Approval expires 5-31-92

**FORM 2C NPDES**

**EPA**

**U.S. ENVIRONMENTAL PROTECTION AGENCY**
# APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
## EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
*Consolidated Permits Program*

## I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| A. OUTFALL NUMBER *(list)* | B. LATITUDE | | | C. LONGITUDE | | | D. RECEIVING WATER *(name)* |
|---|---|---|---|---|---|---|---|
| | 1. DEG. | 2. MIN. | 3. SEC. | 1. DEG. | 2. MIN. | 3. SEC. | |
| 001 | 35 | 28 | 02 | 82 | 32 | 56 | French Broad River |
| 002 | 35 | 28 | 10 | 82 | 32 | 20 | Lake Julian |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

| 1. OUTFALLING *(list)* | 2. OPERATION(S) CONTRIBUTING FLOW | | 3. TREATMENT | | |
|---|---|---|---|---|---|
| | a. OPERATION *(list)* | b. AVERAGE FLOW *(include units)* | a. DESCRIPTION | b. LIST CODES FROM TABLE 2C-1 | |
| | Ash sluice water | See | Sedimentation, neutralization | 1-U | 2-K |
| | Coal pile runoff | Attachment 2 | Sedimentation, neutralization | 1-U | 2-K |
| | Stormwater | for flows | Sedimentation, neutralization | 1-U | 2-K |
| 001 | FGD wastewater | | Flocculation, coagulation, wetland | 1-G, 2-D | XX |
| | Low volume wastewater | | Sedimentation, neutralization | 1-U | 2-K |
| | Water treatment wastes | | | | |
| | Boiler blowdown | | | | |
| | Plant drains | | | | |
| | Ash hopper seal water | | | | |
| | Air preheater cleaning wastes | | Sedimentation, neutralization | 1-U | 2-K |
| | Chemical metal cleaning wastes | | Evaporation or neutralization, | 1-F | 2-K |
| | | | precipitation | 2-C | |
| | Combustion Turbine | | Sedimentation, neutralization | 1-U | 2-K |
| | | | | | |
| | | | | | |
| 002 | Once-through cooling water | | Evaporation | 1-F | |
| | Circulating water to heat exchangers | | Evaporation | 1-F | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**OFFICIAL USE ONLY** *(effluent guidelines sub-categories)*

**CONTINUED FROM THE FRONT**

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ **YES** *(complete the following table)* ☐ **NO** *(go to Section III)*

| 1. OUTFALL NUMBER *(list)* | 2. OPERATION(s) CONTRIBUTING FLOW *(list)* | 3. FREQUENCY a. DAYS PER WEEK *(specify average)* | 3. FREQUENCY b. MONTHS PER YEAR *(specify average)* | 4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE | 4. FLOW a. FLOW RATE *(in mgd)* 2. MAXIMUM DAILY | 4. FLOW b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE | 4. FLOW b. TOTAL VOLUME *(specify with units)* 2. MAXIMUM DAILY | 4. FLOW c. DURATION *(in days)* |
|---|---|---|---|---|---|---|---|---|
| 001 | Water treatment wastes | 1 | 1 | 0.003 | 0.006 | 3,000 gal | 6,000 gal | 1 |
| | Combustion Turbines | 1 - 7 | 1 - 12 | 0.01 | 0.02 | 10,000 gal | 20,000 gal | 1 |
| | Chemical metal cleaning wastes | 0-90,000 instead of | gallons p dischargi | roduced ev ng to the a | ery 5 to 8 sh pond. | years. Pl | ans are to | evaporate |
| | Air preheater cleaning | 1 | 1 | 0.010 | 0.010 | 10,000 gal | 10,000 gal | 1 |

## III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ **YES** *(complete Item III-B)* ☐ **NO** *(go to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☐ **YES** *(complete Item III-C)* ☒ **NO** *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| 1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY | 1. AVERAGE DAILY PRODUCTION b. UNITS OF MEASURE | 1. AVERAGE DAILY PRODUCTION c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)* | 2. AFFECTED OUTFALLS *(list outfall numbers)* |
|---|---|---|---|
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions. ☐ **YES** *(complete the following table)* ☒ **NO** *(go to Item IV-B)*

| 1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC. | 2. AFFECTED OUTFALLS a. NO. | 2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE | 3. BRIEF DESCRIPTION OF PROJECT | 4. FINAL COMPLIANCE DATE a. REQUIRED | 4. FINAL COMPLIANCE DATE b. PROJECTED |
|---|---|---|---|---|---|
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ **MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED**

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## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| 1. POLLUTANT | 2. SOURCE | 1.POLLUTANT | 2. SOURCE |
|---|---|---|---|
| Asbestos | Used in insulation, trace amounts may be washed down drains in plant areas during maintenance activities. | | |
| Strontium<br>Uranium<br>Vanadium<br>Zirconium | Trace elements occasionally present in coal. | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ **YES** *(list all such pollutants below)* ☐ **NO** *(go to Item VI-B)*

The following substances may be contained in coal:
Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

See Attachment 4 for Potential Discharges Not Covered by Analysis

CONTINUED FROM THE FRONT

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

[X] YES *(identify the test(s) and describe their purposes below)* [ ] NO *(go to Section VIII)*

Outfall 001 From 2002 to 2005 thirteen, chronic toxicity tests were performed on the ash pond discharge as required by the current NPDES permit. All twelve of the tests were within the permit limits of 1.4 %.

Outfall 002 Toxicity sampling and analysis is not required for this outfall by the current NPDES permit.

## VIII. CONTRACT ANALYSIS INFORMATION

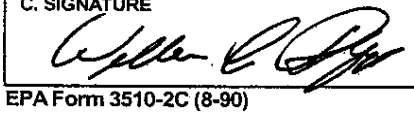
Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

[X] YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* [ ] NO *(go to Section IX)*

| A. NAME | B. ADDRESS | C. TELEPHONE (area code & no.) | D. POLLUTANTS ANALYZED (list) |
|---|---|---|---|
| Oxford Laboratory | 1316 S. Fifth Street<br>Wilmington, NC 28401 | (910) 763-9793 | Phenol, TOC, Boron, Bromide, Mercury |
| Florida Radiochemistry Services, Inc. | 5456 Hoffner Avenue, Suite 201<br>Orlando, FL 32812 | (407) 382-7733 | Total Alpha, Total Beta |
| Pace Analytical Services, Inc. | 2225 Riverside Drive<br>Asheville, NC 28804 | (828) 254-7176 | BOD, Fecal Coliform, Color, Surfactants |
| Tritest | 3909 Beryl Road<br>Raleigh, NC 27607 | (919) 834-4984 | All others |

## IX. 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.*

| A. NAME & OFFICIAL TITLE *(type or print)* | B. PHONE NO. *(area code & no.)* |
|---|---|
| William A. Phipps | (828) 687-5201 |
| C. SIGNATURE | D. DATE SIGNED |
|  | 6/21/05 |

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

**EPA I.D. NUMBER** *(copy from Item 1 of Form 1)*: NC0000396

**V. INTAKE AND EFFLUENT CHARACTERISTICS** *(continued from page 3 of Form 2-C)*

**OUTFALL NO.** 001

**PART A -** You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS | c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION | c. LONG TERM AVRG. VALUE *(if available)* (2) MASS | d. NO. OF ANALYSES | 3. UNITS *(specify if blank)* a. CONCENTRATION | 3. UNITS b. MASS | 4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand *(BOD)* | <2.0 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| b. Chemical Oxygen Demand *(COD)* | <10 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| c. Total Organic Carbon *(TOC)* | <0.50 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| d. Total Suspended Solids *(TSS)* | 16 | 124.8 | 10.6 | 82.6 | 5.3 | 41.3 | 26 | mg/l | kg/day | | | |
| e. Ammonia *(as N)* | 0.09 | 0.70 | | | | | 1 | mg/l | kg/day | | | |
| f. Flow | VALUE 3.01 | | VALUE 2.56 | | VALUE 2.06 | | 53 | MGD | ~~ | VALUE | | |
| g. Temperature *(winter)* | VALUE Note 1 | | VALUE Note 1 | | VALUE Note 1 | | 0 | °C | | VALUE | | |
| h. Temperature *(summer)* | VALUE 13.2 | | VALUE 13.2 | | VALUE 13.2 | | 1 | °C | | VALUE | | |
| i. pH | MINIMUM 6.1 | MAXIMUM 7.5 | MINIMUM 6.1 | MAXIMUM 7.5 | | | 57 | STANDARD UNITS | | | | |

**PART B -** Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. *(if available)* | 2. MARK 'X' a. BELIEVED PRESENT | 2. MARK 'X' b. BELIEVED ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS | c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION | c. LONG TERM AVRG. VALUE *(if available)* (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | 4. UNITS b. MASS | 5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | 0.431 | 3.361 | | | | | 1 | mg/l | kg/day | | | |
| b. Chlorine, Total Residual | X | | <0.100 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| c. Color | X | | <5.0 | ~~ | | | | | 1 | units | ~~ | | | |
| d. Fecal Coliform | X | | 2.0 | ~~ | | | | | 1 | col/100 ml | ~~ | | | |
| e. Fluoride (16984-48-8) | X | | 0.92 | 7.17 | | | | | 1 | mg/l | kg/day | | | |
| f. Nitrate—Nitrite *(as N)* | X | | 0.87 | 6.78 | 0.87 | 6.78 | 0.55 | 4.29 | 6 | mg/l | kg/day | | | |

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. BELIEVED PRESENT | b. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| g. Nitrogen, Total Organic (as N) | X | | <0.25 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| h. Oil and Grease | X | | <5 | ~~ | <5 | ~~ | <5 | ~~ | 25 | mg/l | ~~ | | | |
| i. Phosphorus (as P), Total (7723-14-0) | X | | 0.09 | 0.70 | 0.09 | 0.70 | 0.03 | 0.23 | 6 | mg/l | kg/day | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | X | | <1.4 | ~~ | | | | | 1 | pCi/l | ~~ | | | |
| (2) Beta, Total | X | | 11.6 | 9.0 E-05 | | | | | 1 | pCi/l | Ci/day | | | |
| (3) Radium, Total | | | Testing | and | reporting | not | required | | | | | | | |
| (4) Radium 226, Total | | | Testing | and | reporting | not | required | | | | | | | |
| k. Sulfate (as $SO_4$) (14808-79-8) | X | | 77.2 | 601.9 | | | | | 1 | mg/l | kg/day | | | |
| l. Sulfide (as S) | X | | <0.10 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | X | | <1.0 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| n. Surfactants | X | | <0.1 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| o. Aluminum, Total (7429-90-5) | X | | 0.452 | 3.524 | | | | | 1 | mg/l | kg/day | | | |
| p. Barium, Total (7440-39-3) | X | | 0.218 | 1.700 | | | | | 1 | mg/l | kg/day | | | |
| q. Boron, Total (7440-42-8) | X | | 0.458 | 3.571 | | | | | 1 | mg/l | kg/day | | | |
| r. Cobalt, Total (7440-48-4) | X | | 0.006 | 0.047 | | | | | 1 | mg/l | kg/day | | | |
| s. Iron, Total (7439-89-6) | X | | 0.220 | 1.715 | | | | | 1 | mg/l | kg/day | | | |
| t. Magnesium, Total (7439-95-4) | X | | 4.26 | 33.22 | | | | | 1 | mg/l | kg/day | | | |
| u. Molybdenum, Total (7439-98-7) | X | | 0.112 | 0.873 | | | | | 1 | mg/l | kg/day | | | |
| v. Manganese, Total (7439-96-5) | X | | 0.201 | 1.567 | | | | | 1 | mg/l | kg/day | | | |
| w. Tin, Total (7440-31-5) | X | | <0.002 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| x. Titanium, Total (7440-32-6) | X | | 0.039 | 0.304 | | | | | 1 | mg/l | kg/day | | | |

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**CONTINUED FROM PAGE 3 OF FORM 2-C**

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER *(if available)* | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | d. NO. OF ANAL-YSES | 4. UNITS | | 5. INTAKE *(optional)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TEST-ING RE-QUIR-ED | b. BE-LIEVED PRE-SENT | c. BE-LIEVED AB-SENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE *(if available)* | | c. LONG TERM AVRG. VALUE *(if available)* | | | a. CONCEN-TRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANAL-YSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCEN-TRATION | (2) MASS | |
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | X | X | | 0.012 | 0.094 | | | | | 1 | mg/l | kg/day | | | |
| 2M. Arsenic, Total (7440-38-2) | X | X | | 0.094 | 0.733 | 0.094 | 0.733 | 0.048 | 0.374 | 13 | mg/l | kg/day | | | |
| 3M. Beryllium, Total, 7440-41-7) | X | X | | <0.002 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 4M. Cadmium, Total (7440-43-9) | X | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 5M. Chromium, Total (7440-47-3) | X | X | | <0.010 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 6M. Copper, Total (7440-50-8) | X | X | | 19 | 0.148 | 19 | 0.148 | 1.6 | 0.0125 | 13 | ug/l | kg/day | | | |
| 7M. Lead, Total (7439-92-1) | X | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 8M. Mercury, Total (7439-97-6) | X | X | | <0.2 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 9M. Nickel, Total (7440-02-0) | X | X | | 0.017 | 0.133 | | | | | 1 | mg/l | kg/day | | | |
| 10M. Selenium, Total (7782-49-2) | X | X | | 0.081 | 0.632 | 0.081 | 0.632 | 0.055 | 0.429 | 13 | mg/l | kg/day | | | |
| 11M. Silver, Total (7440-22-4) | X | X | | <0.010 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 12M. Thallium, Total (7440-28-0) | X | X | | <0.001 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 13M. Zinc, Total (7440-66-6) | X | X | | 0.016 | 0.125 | | | | | 1 | mg/l | kg/day | | | |
| 14M. Cyanide, Total (57-12-5) | X | X | | 0.006 | 0.047 | | | | | 1 | mg/l | kg/day | | | |
| 15M. Phenols, Total | X | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo-P-Dioxin (1764-01-6) | | | X | **DESCRIBE RESULTS** | | | | | | | | | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | d. NO. OF ANALYSES | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | X | <50 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 2V. Acrylonitrile (107-13-1) | X | | X | <50 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 3V. Benzene (71-43-2) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 4V. Bis *(Chloromethyl)* Ether (542-88-1) | | | | Testing | and | reporting | not | required | | | | | | | |
| 5V. Bromoform (75-25-2) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 7V. Chlorobenzene (108-90-7) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 8V. Chlorodibromomethane (124-48-1) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 9V. Chloroethane (75-00-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 11V. Chloroform (67-66-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 12V. Dichlorobromomethane (75-27-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | | Testing | and | reporting | not | required | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 18V. 1,3-Dichloropropylene (542-75-6) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 19V. Ethylbenzene (100-41-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 20V. Methyl Bromide (74-83-9) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 21V. Methyl Chloride (74-87-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |

| EPA I.D. NUMBER *(copy from Item 1 of Form 1)* | OUTFALL NUMBER |
|---|---|
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CONTINUED FROM PAGE V-4

| 1. POLLUTANT AND CAS NUMBER *(if available)* | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE *(optional)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE *(if available)* | | c. LONG TERM AVRG. VALUE *(if available)* | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — VOLATILE COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 24V. Tetrachloroethylene (127-18-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 25V. Toluene (108-88-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 29V. Trichloroethylene (79-01-6) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 30V. Trichlorofluoromethane (75-69-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 31V. Vinyl Chloride (75-01-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| **GC/MS FRACTION — ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | X | | X | <50 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | X | <50 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 9A. Pentachlorophenol (87-86-5) | X | | X | <30 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 10A. Phenol (108-95-2) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | Testing | and | reporting | not | required | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo *(a)* Anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo *(a)* Pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo *(ghi)* Perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo *(k)* Fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4) | | | | | | | | | | | | | | | |
| 12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1) | | | | | | | | | | | | | | | |
| 13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7) | | | | | | | | | | | | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 19B. Dibenzo *(a, h)* Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | | | | | | | | | | | | | |

| EPA I.D. NUMBER *(copy from Item 1 of Form 1)* | OUTFALL NUMBER |
|---|---|
| NC0000396 | 001 |

CONTINUED FROM PAGE V-6

| 1. POLLUTANT AND CAS NUMBER *(if available)* | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE *(optional)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE *(if available)* | | c. LONG TERM AVRG. VALUE *(if available)* | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 22B. 1,4-Dichlorobenzene (106-46-7) | | | | Testing | and | reporting | not | required | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 27B. 2,4-Dinitrotoluene (121-14-2) | | | | | | | | | | | | | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | | | | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7) | | | | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-74-1) | | | | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 42B. N-Nitrosodi-N-Propylamine (621-64-7) | | | | | | | | | | | | | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | | Testing | and | reporting | not | required | | | | | | | |
| 44B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION — PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | Testing | and | reporting | not | required | | | | | | | |
| 2P. $\alpha$-BHC (319-84-6) | | | | | | | | | | | | | | | |
| 3P. $\beta$-BHC (319-85-7) | | | | | | | | | | | | | | | |
| 4P. $\gamma$-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 5P. $\delta$-BHC (319-86-8) | | | | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. $\alpha$-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. $\beta$-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | | | | | | | | | | | | | |

| EPA I.D. NUMBER *(copy from Item 1 of Form 1)* | OUTFALL NUMBER |
|---|---|
| NC0000396 | 001 |

CONTINUED FROM PAGE V-8

| 1. POLLUTANT AND CAS NUMBER *(if available)* | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE *(optional)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TEST-ING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE *(if available)* | | c. LONG TERM AVRG. VALUE *(if available)* | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — PESTICIDES** *(continued)* | | | | | | | | | | | | | | | |
| 17P. Heptachlor Epoxide (1024-57-3) | | | | Testing | and | reporting | not | required | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |



Note 1: Temperature monitoring is not required at Outfall 001 by the current NPDES permit, therefore data for winter months has not been collected. Only one temperature data point is available.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

**EPA I.D. NUMBER** *(copy from Item 1 of Form 1)*: NC0000396

**V. INTAKE AND EFFLUENT CHARACTERISTICS** *(continued from page 3 of Form 2-C)*

**OUTFALL NO.** 002

**PART A** - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS | c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION | c. LONG TERM AVRG. VALUE *(if available)* (2) MASS | d. NO. OF ANALYSES | 3. UNITS *(specify if blank)* a. CONCENTRATION | 3. UNITS b. MASS | 4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand *(BOD)* | < 2.0 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| b. Chemical Oxygen Demand *(COD)* | <10 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| c. Total Organic Carbon *(TOC)* | 2.06 | 1,756 | | | | | 1 | mg/l | kg/day | | | |
| d. Total Suspended Solids *(TSS)* | <1.0 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| e. Ammonia *(as N)* | 0.03 | 25.57 | | | | | 1 | mg/l | kg/day | | | |
| f. Flow | VALUE 305.5 | | VALUE 305.5 | | VALUE 228.2 | | 365 | MGD | | VALUE | | |
| g. Temperature *(winter)* | VALUE 36.3 | | VALUE 32.7 | | VALUE 28.9 | | 151 | °C | | VALUE | | |
| h. Temperature *(summer)* | VALUE 43.5 | | VALUE 40.6 | | VALUE 36.4 | | 214 | °C | | VALUE | | |
| i. pH | MINIMUM 6.4 | MAXIMUM 8.2 | MINIMUM 6.4 | MAXIMUM 8.2 | | | 52 | STANDARD UNITS | | | | |

**PART B** - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. *(if available)* | 2. MARK 'X' a. BELIEVED PRESENT | 2. MARK 'X' b. BELIEVED ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS | c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION | c. LONG TERM AVRG. VALUE *(if available)* (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | 4. UNITS b. MASS | 5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | 0.098 | 83.53 | | | | | 1 | mg/l | kg/day | | | |
| b. Chlorine, Total Residual | X | | 70 | 59.67 | 67 | 57.11 | 17 | 14.49 | 24 | ug/l | kg/day | | | |
| c. Color | X | | < 5.0 | ~~ | | | | | 1 | units | ~~ | | | |
| d. Fecal Coliform | X | | 8.0 | ~~ | | | | | 1 | col/100 ml | ~~ | | | |
| e. Fluoride (16984-48-8) | X | | 0.19 | 161.95 | | | | | 1 | mg/l | kg/day | | | |
| f. Nitrate—Nitrite *(as N)* | X | | 0.22 | 187.52 | | | | | 1 | mg/l | kg/day | | | |

**EPA Form 3510-2C (8-90)** **PAGE V-1** **CONTINUE ON REVERSE**

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. BELIEVED PRESENT | b. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| g. Nitrogen, Total Organic (as N) | X | | <0.25 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| h. Oil and Grease | X | | <5.0 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| i. Phosphorus (as P), Total (7723-14-0) | X | | <0.05 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | X | | <0.8 | ~~ | | | | | 1 | pCi/l | ~~ | | | |
| (2) Beta, Total | X | | 4.0 | 0.0034 | | | | | 1 | pCi/l | Ci/day | | | |
| (3) Radium, Total | | | Testing | and | reporting | not | required | | | | | | | |
| (4) Radium 226, Total | | | Testing | and | reporting | not | required | | | | | | | |
| k. Sulfate (as $SO_4$) (14808-79-8) | X | | 5.20 | 4,432 | | | | | 1 | mg/l | kg/day | | | |
| l. Sulfide (as S) | X | | <0.10 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | X | | <1.0 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| n. Surfactants | X | | <0.1 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| o. Aluminum, Total (7429-90-5) | X | | <0.050 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| p. Barium, Total (7440-39-3) | X | | 0.014 | 11.93 | | | | | 1 | mg/l | kg/day | | | |
| q. Boron, Total (7440-42-8) | X | | 0.069 | 58.81 | | | | | 1 | mg/l | kg/day | | | |
| r. Cobalt, Total (7440-48-4) | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| s. Iron, Total (7439-89-6) | X | | 0.069 | 58.81 | | | | | 1 | mg/l | kg/day | | | |
| t. Magnesium, Total (7439-95-4) | X | | 2.25 | 1,918 | | | | | 1 | mg/l | kg/day | | | |
| u. Molybdenum, Total (7439-98-7) | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| v. Manganese, Total (7439-96-5) | X | | <0.010 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| w. Tin, Total (7440-31-5) | X | | 0.006 | 5.11 | | | | | 1 | mg/l | kg/day | | | |
| x. Titanium, Total (7440-32-6) | X | | <0.010 | ~~ | | | | | 1 | mg/l | ~~ | | | |

| EPA I.D. NUMBER *(copy from Item 1 of Form 1)* | OUTFALL NUMBER |
|---|---|
| NC0000396 | 002 |

**CONTINUED FROM PAGE 3 OF FORM 2-C**

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER *(if available)* | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE *(optional)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE *(if available)* | | c. LONG TERM AVRG. VALUE *(if available)* | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | X | X | | <0.003 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 2M. Arsenic, Total (7440-38-2) | X | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 3M. Beryllium, Total, 7440-41-7) | X | X | | <0.002 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 4M. Cadmium, Total (7440-43-9) | X | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 5M. Chromium, Total (7440-47-3) | X | X | | <0.010 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 6M. Copper, Total (7440-50-8) | X | X | | <0.010 | ~~ | <0.010 | ~~ | <0.010 | ~~ | 5 | mg/l | ~~ | | | |
| 7M. Lead, Total (7439-92-1) | X | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 8M. Mercury, Total (7439-97-6) | X | X | | <0.2 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 9M. Nickel, Total (7440-02-0) | X | X | | <0.010 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 10M. Selenium, Total (7782-49-2) | X | X | | <0.002 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 11M. Silver, Total (7440-22-4) | X | X | | <0.010 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 12M. Thallium, Total (7440-28-0) | X | X | | <0.001 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 13M. Zinc, Total (7440-66-6) | X | X | | <0.010 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 14M. Cyanide, Total (57-12-5) | X | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| 15M. Phenols, Total | X | X | | <0.005 | ~~ | | | | | 1 | mg/l | ~~ | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6) | | | X | **DESCRIBE RESULTS** | | | | | | | | | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | X | <50 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 2V. Acrylonitrile (107-13-1) | X | | X | <50 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 3V. Benzene (71-43-2) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 4V. Bis *(Chloromethyl)* Ether (542-88-1) | | | | Testing | and | reporting | not | required | | | | | | | |
| 5V. Bromoform (75-25-2) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 7V. Chlorobenzene (108-90-7) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 8V. Chlorodibromomethane (124-48-1) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 9V. Chloroethane (75-00-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 11V. Chloroform (67-66-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 12V. Dichlorobromomethane (75-27-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | | Testing | and | reporting | not | required | | 1 | ug/l | ~~ | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 18V. 1,3-Dichloropropylene (542-75-6) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 19V. Ethylbenzene (100-41-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 20V. Methyl Bromide (74-83-9) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 21V. Methyl Chloride (74-87-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |

| EPA I.D. NUMBER *(copy from Item 1 of Form 1)* | OUTFALL NUMBER |
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CONTINUED FROM PAGE V-4

| 1. POLLUTANT AND CAS NUMBER *(if available)* | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | d. NO. OF ANAL-YSES | 4. UNITS | | 5. INTAKE *(optional)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TEST-ING RE-QUIR-ED | b. BE-LIEVED PRE-SENT | c. BE-LIEVED AB-SENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE *(if available)* | | c. LONG TERM AVRG. VALUE *(if available)* | | | a. CONCEN-TRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANAL-YSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCEN-TRATION | (2) MASS | |
| **GC/MS FRACTION — VOLATILE COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 23V. 1,1,2,2-Tetra-chloroethane (79-34-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 25V. Toluene (108-88-3) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 30V. Trichloro-fluoromethane (75-69-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 31V. Vinyl Chloride (75-01-4) | X | | X | <5 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| **GC/MS FRACTION — ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chloro-phenol (95-57-8) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 2A. 2,4-Dichloro-phenol (120-83-2) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 3A. 2,4-Dimethyl-phenol (105-67-9) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | X | | X | <50 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 5A. 2,4-Dinitro-phenol (51-28-5) | X | | X | <50 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 9A. Pentachloro-phenol (87-86-5) | X | | X | <30 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 10A. Phenol (108-95-2) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |
| 11A. 2,4,6-Tri-chlorophenol (88-06-2) | X | | X | <10 | ~~ | | | | | 1 | ug/l | ~~ | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | d. NO. OF ANALYSES | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | Testing | and | reporting | not | required | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo *(a)* Anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo *(a)* Pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo *(ghi)* Perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo *(k)* Fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4) | | | | | | | | | | | | | | | |
| 12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1) | | | | | | | | | | | | | | | |
| 13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7) | | | | | | | | | | | | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 19B. Dibenzo *(a, h)* Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | | | | | | | | | | | | | |

| EPA I.D. NUMBER *(copy from Item 1 of Form 1)* | OUTFALL NUMBER |
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| 1. POLLUTANT AND CAS NUMBER *(if available)* | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE *(optional)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE *(if available)* | | c. LONG TERM AVRG. VALUE *(if available)* | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 22B. 1,4-Dichlorobenzene (106-46-7) | | | | Testing | and | reporting | not | required | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 27B. 2,4-Dinitrotoluene (121-14-2) | | | | | | | | | | | | | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | | | | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7) | | | | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-74-1) | | | | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 42B. N-Nitrosodi-N-Propylamine (621-64-7) | | | | | | | | | | | | | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | | Testing | and | reporting | not | required | | | | | | | |
| 44B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION — PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | Testing | and | reporting | not | required | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | | | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | | | | | | | | | | | | | |

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| 1. POLLUTANT AND CAS NUMBER *(if available)* | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE *(optional)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE *(if available)* | | c. LONG TERM AVRG. VALUE *(if available)* | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION — PESTICIDES** *(continued)* | | | | | | | | | | | | | | | |
| 17P. Heptachlor Epoxide (1024-57-3) | | | | Testing | and | reporting | not | required | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

Please print or type in the unshaded areas only

EPA ID Number *(copy from Item I of Form 1)*: NC0000396

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

Form **2F** NPDES

United States Environmental Protection Agency
Washington, DC 20460

# Application for Permit To Discharge Stormwater Discharges Associated with Industrial Activity

**Paperwork Reduction Act Notice**

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

## I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| A. Outfall Number *(list)* | B. Latitude | | | C. Longitude | | | D. Receiving Water *(name)* |
|---|---|---|---|---|---|---|---|
| SW-1 | 35 | 28 | 01 | 82 | 32 | 13 | Lake Julian |
| SW-2 | 35 | 27 | 51 | 82 | 32 | 05 | Lake Julian |
| SW-3 | 35 | 27 | 55 | 82 | 32 | 06 | Lake Julian |
| SW-4 | 35 | 28 | 39 | 82 | 32 | 46 | Lake Julian |
| SW-5 | 35 | 28 | 29 | 82 | 32 | 51 | Unnamed tributary to Powell Creek |
| SW-6 | 35 | 28 | 23 | 82 | 32 | 45 | Lake Julian |
| | | | | | | | |
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## II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

| 1. Identification of Conditions, Agreements, Etc. | 2. Affected Outfalls | | 3. Brief Description of Project | 4. Final Compliance Date | |
|---|---|---|---|---|---|
| | number | source of discharge | | a. req. | b. proj. |
| NA | | | | | |
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B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

## III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

## IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

| Outfall Number | Area of Impervious Surface *(provide units)* | Total Area Drained *(provide units)* | Outfall Number | Area of Impervious Surface *(provide units)* | Total Area Drained *(provide units)* |
|---|---|---|---|---|---|
| SW-1 | 0.34 acre | 3.69 acres | SW-4 | 0.09 acre | 5.5 acres |
| SW-2 | 0.13 acre | 0.38 acre | SW-5 | 0.09 acre | 4.0 acres |
| SW-3 | 0.84 acre | 9.06 acres | SW-6 | 0.18 acre | 7.6 acres |

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

See Attachments 6 and 7.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

| Outfall Number | Treatment | List Codes from Table 2F-1 |
|---|---|---|
| | See Attachment 7 | |

## V. Nonstormwater Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharges from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

| Name and Official Title *(type or print)* | Signature | Date Signed |
|---|---|---|
| Regina G. Elledge, Chemistry Technician | Regina G. Elledge | 06-21-05 |

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

The stormwater outfalls were visually observed on June 17, 2005. No non-stormwater was observed.

## VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

There have been no leaks or spills of toxic or hazardous pollutants on the old or new access roads in the past three years.

**Continued from Page 2**

## VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.

E: Potential discharges not covered by analysis - is any pollutant listed in table 2F-2, 2F-3 or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ Yes *(list all such pollutants below)* ☐ No *(go to Section IX)*

The following elements could be present in coal and/or oil:

| | |
|---|---|
| Antimony | Nickel |
| Arsenic | Selenium |
| Beryllium | Silver |
| Cadmium | Thallium |
| Chromium | Zinc |
| Lead | |
| Mercury | |

## VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes *(list all such pollutants below)* ☒ No *(go to Section IX)*

## IX. Contract Analysis Information

Were any of the analysis reported in item VII performed by a contract laboratory or consulting firm?

☒ Yes *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☐ No *(go to Section X)*

| A. Name | B. Address | C. Area Code & Phone No. | D. Pollutants Analyzed |
|---|---|---|---|
| Pace Analytical Services, Inc. | 2225 Riverside Drive<br>Asheville, NC 28804 | (828) 254-7176 | Metals, BOD, TSS, COD, Total Nitrogen, Total Phosphorus, Total Kjedahl Nitrogen, Nitrate-Nitrite |
| Pace Analytical Services, Inc. | 9800 Kincey Avenue, Suite 100<br>Huntersville, NC 28078 | (704) 875-9092 | Oil & Grease |

## X. 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.*

| A. Name & Official Title *(type or print)* | B. Area Code and Phone No. |
|---|---|
| William A. Phipps | (828) 687-5201 |
| C. Signature | D. Date Signed |
| William A. Phipps | 6/21/05 |

## VII. Discharge Information *(Continued from page 3 of Form 2F)*

**Part A** - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| Pollutant and CAS Number *(if available)* | Maximum Values *(include units)* | | Average Values *(include units)* | | Number of Storm Events Sampled | Sources of Pollutants |
|---|---|---|---|---|---|---|
| | Grab Sample Taken During First 20 Minutes | Flow-weighted Composite | Grab Sample Taken During First 20 Minutes | Flow-weighted Composite | | |
| Oil and Grease | < 5.0 mg/l | N/A | < 5.0 mg/l | NA | 2 | Below detection limit |
| Biological Oxygen Demand (BOD5) | 2.0 mg/l | 4.0 mg/l | | | 1 | Decaying vegetation |
| Chemical Oxygen Demand (COD) | 48 mg/l | 35 mg/l | 24 mg/l | NA | 2 | Decaying vegetation |
| Total Suspended Solids (TSS) | 6.3 mg/l | 4.3 mg/l | 3.2 mg/l | NA | 2 | Erosion, settled dust/debris |
| Total Nitrogen | 0.33 mg/l | 0.30 mg/l | | | 1 | Fertilizer |
| Total Phosphorus | < 0.1 mg/l | < 0.1 mg/l | | | 1 | Below detection limit |
| pH | Minimum 7.26 | Maximum 7.26 | Minimum | Maximum | 1 | None |

**Part B** - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

| Pollutant and CAS Number *(if available)* | Maximum Values *(include units)* | | Average Values *(include units)* | | Number of Storm Events Sampled | Sources of Pollutants |
|---|---|---|---|---|---|---|
| | Grab Sample Taken During First 20 Minutes | Flow-weighted Composite | Grab Sample Taken During First 20 Minutes | Flow-weighted Composite | | |
| Copper, Total (7440-50-8) | 0.0036 mg/l | 0.0026 mg/l | | | 1 | Corrosion of pipes, equipment |
| Iron, Total (7439-89-6) | 0.36 mg/l | 0.32 mg/l | | | 1 | Corrosion of pipes, equipment |
| Arsenic, Total (7440-38-2) | <0.005 mg/l | <0.005 mg/l | | | 1 | Below detection limit |
| Selenium, Total (7782-49-2) | <0.005 mg/l | <0.005 mg/l | | | 1 | Below detection limit |
| Chlorine, Free Available | <0.020 mg/l | NA | | | 1 | Below detection limit |
| Chlorine, Total Residual | 0.020 mg/l | NA | | | 1 | No known source, may be due to turbidity |
| Temperature | 16.0 degrees C | NA | | | 1 | None |

**Continued from the Front**

**Part C** - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

| Pollutant and CAS Number *(if available)* | Maximum Values *(include units)* | | Average Values *(include units)* | | Number of Storm Events Sampled | Sources of Pollutants |
|---|---|---|---|---|---|---|
| | Grab Sample Taken During First 20 Minutes | Flow-weighted Composite | Grab Sample Taken During First 20 Minutes | Flow-weighted Composite | | |
| Total Kjedahl | <0.50 mg/l | <0.50 mg/l | | | 1 | Fertilizer usage |
| Nitrogen | | | | | | |
| | | | | | | |
| Nitrate-Nitrite | 0.33 mg/l | 0.30 mg/l | | | 1 | Fertilizer usage |
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**Part D** - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

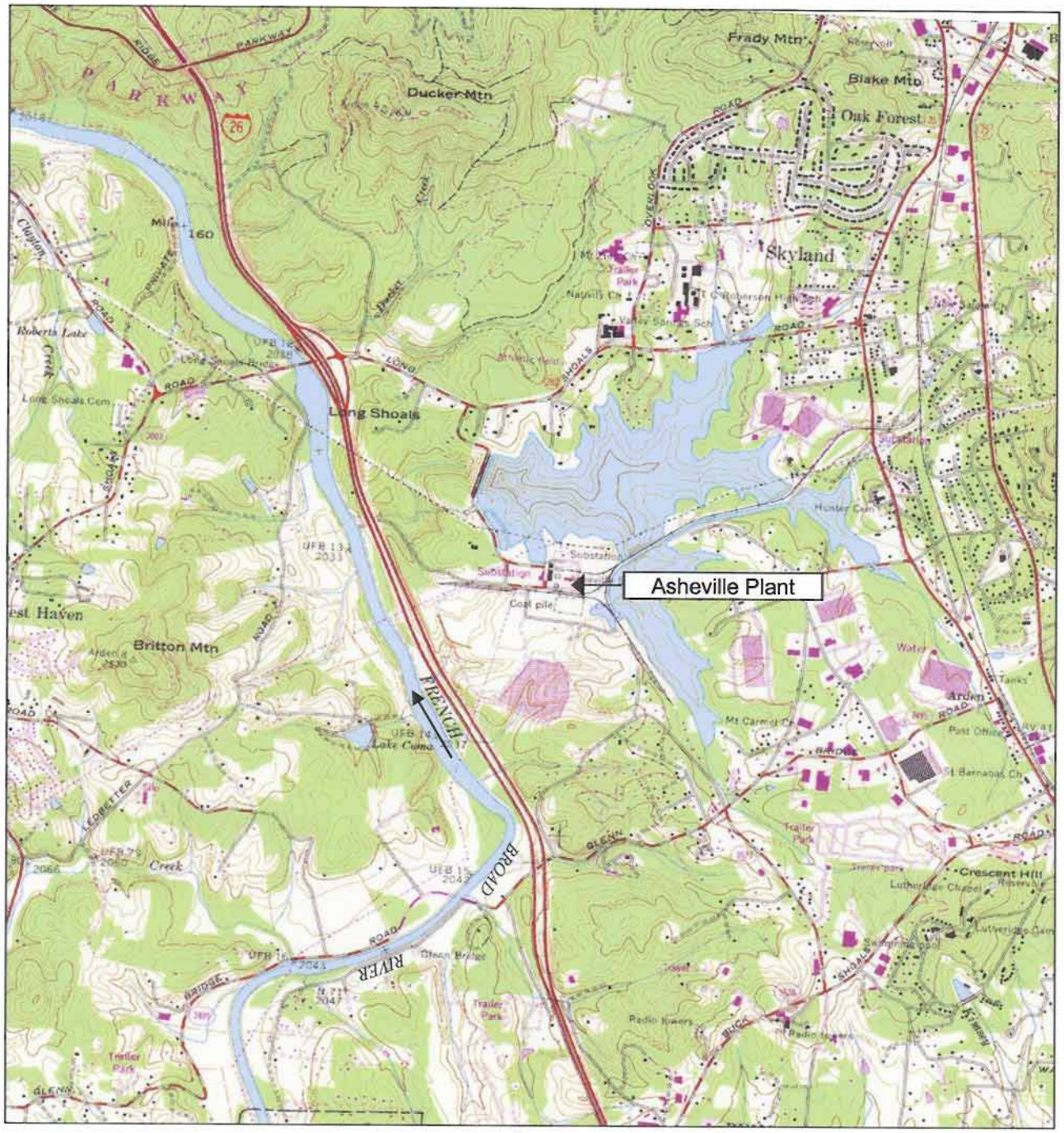
| 1. Date of Storm Event | 2. Duration of Storm Event *(in minutes)* | 3. Total rainfall during storm event *(in inches)* | 4. Number of hours between beginning of storm measured and end of previous measurable rain event | 5. Maximum flow rate during rain event *(gallons/minute or specify units)* | 6. Total flow from rain event *(gallons or specify units)* |
|---|---|---|---|---|---|
| 5-20-05 | 5,100 min | 1.0507 inches | 72 hours | 1.2 gallons/minute | 258,473 gallons |
| 2-21-05 | 2,040 min | 0.94 inches | 158 hours | NA - sampled per NPDES permit. Maximum flow rate not required. | 231,241 gallons |

9. Provide a description of the method of flow measurement or estimate.

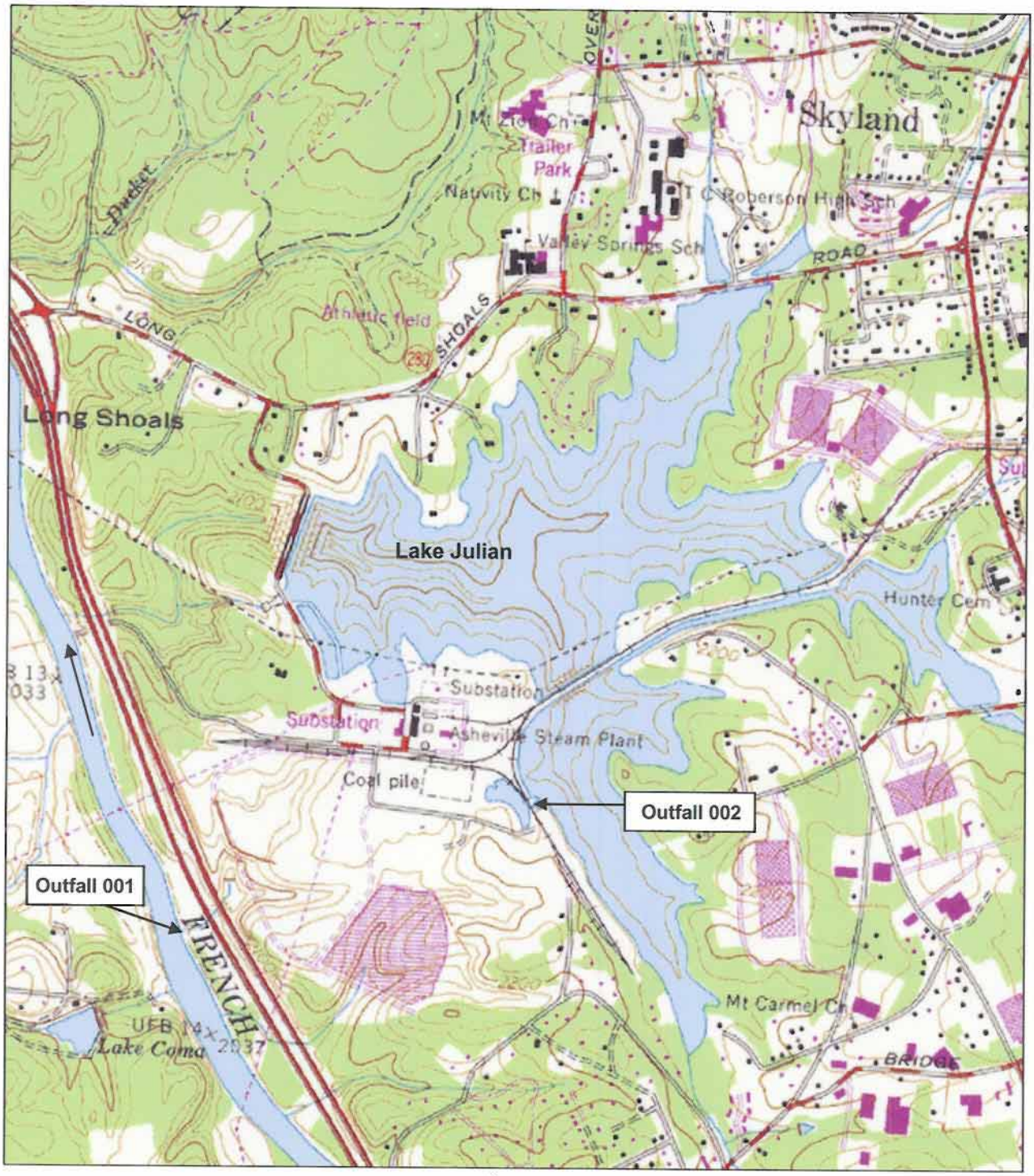
Flow was estimated by measuring the length of time taken to fill a container of known volume.

**Attachment 1**

**Form 1 - Item XI - Map**



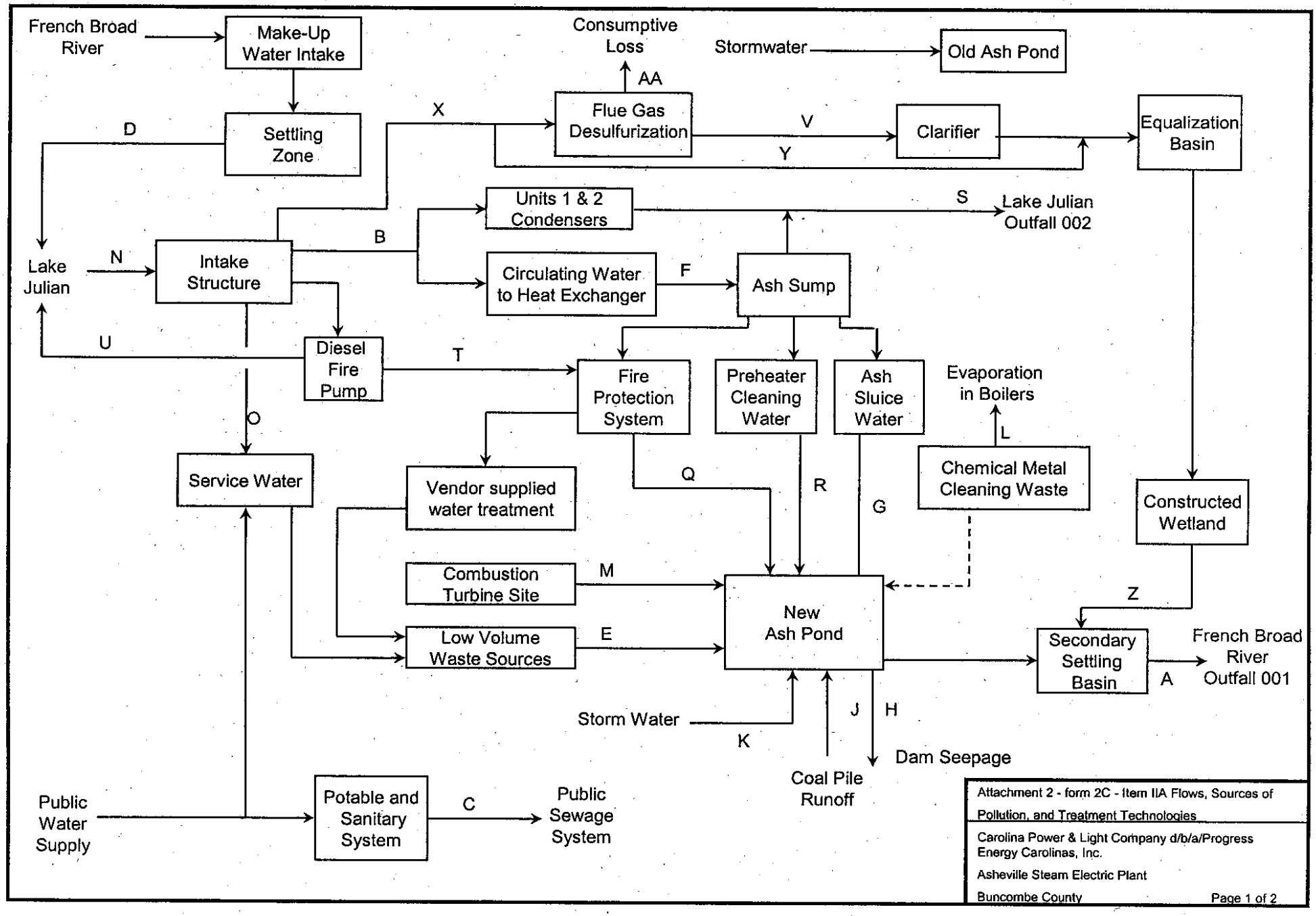

**Attachment 1 – Form 1 – Item XI – Map**
Carolina Power & Light Company
Asheville Steam Electric Plant
Buncombe County
Page 1 of 2




**Attachment 1 – Form 1 – Item XI – Map**
Carolina Power & Light Company
Asheville Steam Electric Plant
Buncombe County
Page 2 of 2

## Attachment 2

## Form 2C - Item II - A Flows, Sources of Pollution, and Treatment Technologies


French Broad River
Make-Up Water Intake
Consumptive Loss
AA
Stormwater
Old Ash Pond
Settling Zone
D
X
Flue Gas Desulfurization
V
Clarifier
Equalization Basin
Y
Units 1 & 2 Condensers
S
Lake Julian Outfall 002
B
Lake Julian
N
Intake Structure
Circulating Water to Heat Exchanger
F
Ash Sump
U
Diesel Fire Pump
T
Fire Protection System
Preheater Cleaning Water
Ash Sluice Water
Evaporation in Boilers
L
O
Service Water
Vendor supplied water treatment
Q
R
G
Chemical Metal Cleaning Waste
Constructed Wetland
Combustion Turbine Site
M
Z
New Ash Pond
Low Volume Waste Sources
E
Secondary Settling Basin
A
French Broad River Outfall 001
Storm Water
K
J
H
Dam Seepage
Coal Pile Runoff
Public Water Supply
Potable and Sanitary System
C
Public Sewage System
Attachment 2 - form 2C - Item IIA Flows, Sources of Pollution, and Treatment Technologies
Carolina Power & Light Company d/b/a/Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
Buncombe County
Page 1 of 2

## Attachment 2
## Form 2C - Item II-A Flow, Sources of Pollution, and Treatment Technologies

| Stream | Name | Average Flow | Comments |
|---|---|---|---|
| A | Ash Pond Discharge | 2.06 MGD | Outfall 001 |
| B | Intake to Once-through Cooling & Circulating Water to Heat Exchangers | 228.2 MGD | |
| C | Plant Potable and Sanitary Uses | 0.007 MGD | From POTW |
| D | Makeup to Lake from River | 6500 gpm | Maximum Flow |
| E | Low Volume Wastes<br>• Ash Hopper Seals<br>• Sandbed Filter Backwash<br>• Boiler Blowdown | <br>0.05 MGD<br>2600 Gal/event<br>0.006 MGD | <br>Rare Usage<br>Startup - Estimated |
| F | Circulating Water from Heat Exchangers | 19.3 MGD | Estimated |
| G | Ash Sluice Water | 2.02 MGD | Estimated |
| H | Dam Seepage | 0.09 MGD | Calculated |
| I | City Water Supply to Boiler Makeup | 0 MGD | Rare Usage |
| J | Coal Pile Runoff | 0.01 MGD | Based on Average Annual Rainfall of 47" and 50 % Runoff |
| K | Storm Water | 0.052 MGD | Estimated |
| L | Chemical Metal Cleaning Wastes | 0 - 90,000 Gallons<br>(0 gallons anticipated) | Normal Practice is Evaporation |
| M | Water From Combustion Turbine Facility Operation | 0 - 0.02 MGD | Intermittent |
| N | From Lake to Intake | 228.25 MGD | Estimated |
| O | Intake to Service Water | 0.05 MGD | Estimated |
| Q | Fire Protection Water | 0.010 MGD | Estimated |
| R | Air Preheater Cleaning | 10,000 gallons/event | Estimated |
| S | Discharge to Lake Julian | 226.2 MGD | Outfall 002 -Estimated |
| T | Emergency Fire Protection Water | 0 | Used for fire fighting |
| U | Diesel Fire Pump to Lake Julian | 0.128 MG/week | Estimate - pump testing |
| V | Flue Gas Desulfurization Blowdown | 0.108 MGD | Estimated – operational November 2005 |
| X | Intake to FGD system | 0.97 MGD | Estimated – operational November 2005 |
| Y | Chloride Dilution Water | 0.432 MGD | Estimated – operational November 2005 |
| Z | Constructed Wetland Discharge | 0.54 MGD | Estimated – operational November 2005 |
| AA | Consumptive loss from FGD system | 0.43 MGD | Estimated – operational November 2005 |

## Attachment 3

## Form 2C - Item II-B Flows, Sources of Pollution, and Treatment Technologies

**Attachment 3**

**Form 2C - Item II-B Flow, Sources of Pollution, and Treatment Technologies**

The Asheville Steam Electric Plant is located in Arden, North Carolina south of Asheville, North Carolina. The Asheville Steam Electric Plant is a coal-fired, steam cycle electric generating plant with two generating units. Two Internal Combustion (IC) Turbines are also located on the plant site. The plant has a 320-acre cooling lake (Lake Julian) on the east side of the French Broad River in Buncombe County, North Carolina.

Chemical constituents contained in the discharges from this plant will, in part be representative of the naturally occurring chemical quality of the intake water and will also have chemical constituents of such quality and quantity associated with similar discharges for fossil generating facilities of this size, type and in this geographical location. Either all or part of the elements listed on the Periodic Table, either singularly or in any combination, may from time to time be contained in the discharge.

**Outfall 001 - Discharge from Ash Pond to French Broad River**

The Plant's ash pond, which is located east of the French Broad River and south of the plant, discharges into the French Broad River. The ash pond receives ash sluice water, low volume wastes, coal pile runoff, limestone pile runoff, gypsum pile runoff, air preheater cleaning water, fire protection system drainage, chemical metal cleaning wastes (potentially), storm water and other waters from the Combustion Turbine Facility constructed on the Plant's site. The proposed truck wash and weigh stations will also discharge to the Ash Pond. The pond provides treatment by sedimentation and neutralization to the above-referenced individual waste streams. Water leaves the ash pond via a standpipe with skimmer and flows by pipe and lined ditch to a secondary basin, where it is discharged by overflow to a ditch that coveys it to the French Broad River. Detailed descriptions of the individual waste streams are below.

<u>Ash Sluice Water</u>

Fly ash and bottom ash from both units are hydraulically conveyed by an ash sluice pipeline to the ash pond. The Amine Enhanced Fuel Lean Gas Reburn (AEFLGR) process which was installed on Unit 1 in the spring of 2000 will be replaced by a Selective Catalytic Reduction

system (SCR) that will begin operation in 2008. A SCR will be installed on Unit 2 and will begin operation in 2006. Urea will continue to be utilized to reduce NOx emissions and will be used in high ozone months (approximately May through September). Beginning in 2009 both SCRs will be operated year round. A byproduct of this process is ammonia which will be carried to the ash pond via ash sluice water. The ash pond discharge flows into the secondary settling pond where it combines with the FGD treated wastewater prior to discharging to the French Broad River.

Coal Pile Runoff

Storm water runoff from the coal pile is collected in drainage ditches that surround the coal pile. The drainage ditches are routed to the ash pond for treatment. During maintenance activities, sludges removed from catch basins, sumps, etc. may be transported to the old and/or the new ash pond for disposal.

Limestone and Gypsum Piles Runoff

Storm water runoff from the limestone and gypsum piles is collected in drainage ditches which are routed to the ash pond for treatment. During maintenance activities, sludges removed from catch basins, sumps, etc. may be transported to the old and/or the new ash pond for disposal.

Storm Water

Storm water runoff from the plant area, parking lots, combustion turbine area, oil storage and handling facility and the plant's 115 KV substation is routed to the ash pond for treatment. During maintenance activities, sludges removed from catch basins, sumps, etc. may be transported to the old and/or the new ash pond for disposal.

Low Volume Wastes

Boiler water make up is withdrawn from Lake Julian and purified utilizing vendor supplied equipment. Boiler water is treated with ammonia, hydrazine, and sodium hydroxide. Boiler blowdown and drainage is sent to the ash pond and may contain small quantities of the chemicals. Some molybdate waste from the closed cooling water system is created through valve leakage and maintenance activities and is discharged to the ash pond. A furnace ash hopper seal is maintained by using plant service water. A standard operation water level is maintained in a seal trough for the ash hopper seal. Overflow from this trough is discharged to the ash pond. A sodium hydroxide solution is fed into this flow stream as necessary for ash

pond pH adjustment. Sulfuric acid is fed to the ash sluice water as necessary for ash pond pH adjustment. Coal dust suppression is achieved by spraying a proprietary chemical on coal at different stages of coal use. Small amounts of excess dust suppression chemical have the potential to be discharged to the ash pond via plant drains or coal pile runoff. Small amounts of urea waste from bulk urea unloading operations are discharged to the ash pond. All plant area floor drains are routed to the ash pond and include equipment drainage and wash down along with rainfall runoff. During maintenance activities sludges removed from catch basins, sumps, etc. may be transported to the old and/or the new ash pond for disposal.
In many cases, added chemicals are consumed or chemically altered during the plant processes. Only trace amounts might be recoverable in water entering the ash pond. Detectable levels of these chemicals would not be expected to occur in ash pond discharges.

Flue Gas Desulfurization Blowdown (Low Volume Waste)

The Flue Gas Desulfurization (FGD) system directs flue gas into an absorber where a limestone (calcium carbonate) slurry is sprayed. Sulfur dioxide in the flue gas reacts with the limestone to produce calcium sulfate (gypsum). This system reclaims any unreacted limestone slurry to be reused in the absorber. A small blowdown stream is used to maintain the chloride concentration in the reaction tank. The blowdown stream is passed through a clarifier to remove solids and the chloride concentration in the waste stream is diluted using water from Lake Julian. A constructed wetland is used to remove metals, mercury and selenium specifically, and the treated wastewater is discharged into the secondary settling pond.

Air Preheater Cleaning (Low Volume Waste)

The air preheater will be water washed once per year or more frequently as needed. The wastewater from this activity will be discharged to the ash pond.

Chemical Metal Cleaning Wastes

The boilers are chemically cleaned every five-to-eight years using Tetraammonia ethylene diamine tetraaccetic acid (EDTA) solution. This cleaning solution and its rinses are stored on site for disposal by evaporation in an operating unit's furnace. Typical cleanings would result in a waste of approximately 80,000 gallons. Should evaporation not be used, the wastewater can be treated by neutralization and precipitation prior to being conveyed to the old ash pond with permission of the DWQ, or to the new ash pond, or other means of disposal. Cleaning of other

pond pH adjustment. Sulfuric acid is fed to the ash sluice water as necessary for ash pond pH adjustment. Coal dust suppression is achieved by spraying a proprietary chemical on coal at different stages of coal use. Small amounts of excess dust suppression chemical have the potential to be discharged to the ash pond via plant drains or coal pile runoff. Small amounts of urea waste from bulk urea unloading operations are discharged to the ash pond. All plant area floor drains are routed to the ash pond and include equipment drainage and wash down along with rainfall runoff. During maintenance activities sludges removed from catch basins, sumps, etc. may be transported to the old and/or the new ash pond for disposal.
In many cases, added chemicals are consumed or chemically altered during the plant processes. Only trace amounts might be recoverable in water entering the ash pond. Detectable levels of these chemicals would not be expected to occur in ash pond discharges.

Flue Gas Desulfurization Blowdown (Low Volume Waste)

The Flue Gas Desulfurization (FGD) system directs flue gas into an absorber where a limestone (calcium carbonate) slurry is sprayed. Sulfur dioxide in the flue gas reacts with the limestone to produce calcium sulfate (gypsum). This system reclaims any unreacted limestone slurry to be reused in the absorber. A small blowdown stream is used to maintain the chloride concentration in the reaction tank. The blowdown stream is passed through a clarifier to remove solids and the chloride concentration in the waste stream is diluted using water from Lake Julian. A constructed wetland is used to remove metals, mercury and selenium specifically, and the treated wastewater is discharged into the secondary settling pond.

Air Preheater Cleaning (Low Volume Waste)

The air preheater will be water washed once per year or more frequently as needed. The wastewater from this activity will be discharged to the ash pond.

Chemical Metal Cleaning Wastes

The boilers are chemically cleaned every five-to-eight years using Tetraammonia ethylene diamine tetraaccetic acid (EDTA) solution. This cleaning solution and its rinses are stored on site for disposal by evaporation in an operating unit's furnace. Typical cleanings would result in a waste of approximately 80,000 gallons. Should evaporation not be used, the wastewater can be treated by neutralization and precipitation prior to being conveyed to the old ash pond with permission of the DWQ, or to the new ash pond, or other means of disposal. Cleaning of other

heat exchanger surfaces may produce 5,000-10,000 gallons of wastewater every three-to-five years.

Other Wastes

Operation of the combustion turbine (CT) generation facility may produce turbine blade wash water, inlet filter cooling water, various condensate waters, and water from equipment and tank drains. These wastewaters will be collected in the storm water collection system of the CT site and routed to the ash pond. During maintenance activities, sludges removed from catch basins, sumps, etc. may be transported to the old and/or the new ash pond for disposal.

- Plant Potable and Sanitary System -

The supply of water for plant potable and sanitary use is obtained from the Asheville/Buncombe Water Authority system and waste from this system is discharged to the Metropolitan Sewage District System.

- 230 KV Substation Storm Water -

Storm water runoff from the substation located adjacent to the plant is conveyed to the old ash pond.

**Outfall 002 - Discharge to Lake Julian**

Once-Through Cooling Water

This flow provides condenser cooling water for the generating units 1 and 2. Maximum condenser flows for units 1 and 2 are 150 MGD and 156 MGD, respectively.

Once-through cooling water is used to supply non-contact cooling water for the component closed cooling water system. The component closed cooling water system flows combine with unit 1 and 2 condenser flows prior to discharge to Lake Julian. Maximum component closed cooling water system flows for unit 1 and 2 are 9.1 MGD and 10.2 MGD, respectively. Discharge flow to Lake Julian is calculated at the intake to units 1 and 2 condensers and to the circulating water to the heat exchanger. The discharge of water from the heat exchangers is routed to an ash sump. The majority of this water is further routed to the discharge of units 1 and 2 condensers. Less than one percent of the flow to the ash sump is used to supply ash sluice water, preheater cleaning water, and fire protection water.

Control of biological fouling on heat-exchanger surfaces is accomplished by addition of sodium hypochlorite as required, which is usually less that 2 hours per day per unit, with a net total residual chlorine of less than 0.2 ppm discharged during that period. Cooling is accomplished by evaporation from the surface of Lake Julian and mixing and convection with lake waters. Make up for Lake Julian is from the French Broad River, natural runoff and creek flows. Water is pumped from the French Broad River during dry periods to supplement the flow. Although discharge from Lake Julian to the river is extremely rare, any occurrence would be during periods of heavy rainfall.

## Attachment 4

## Form 2C - Item VI Potential Discharges Not Covered By Analysis

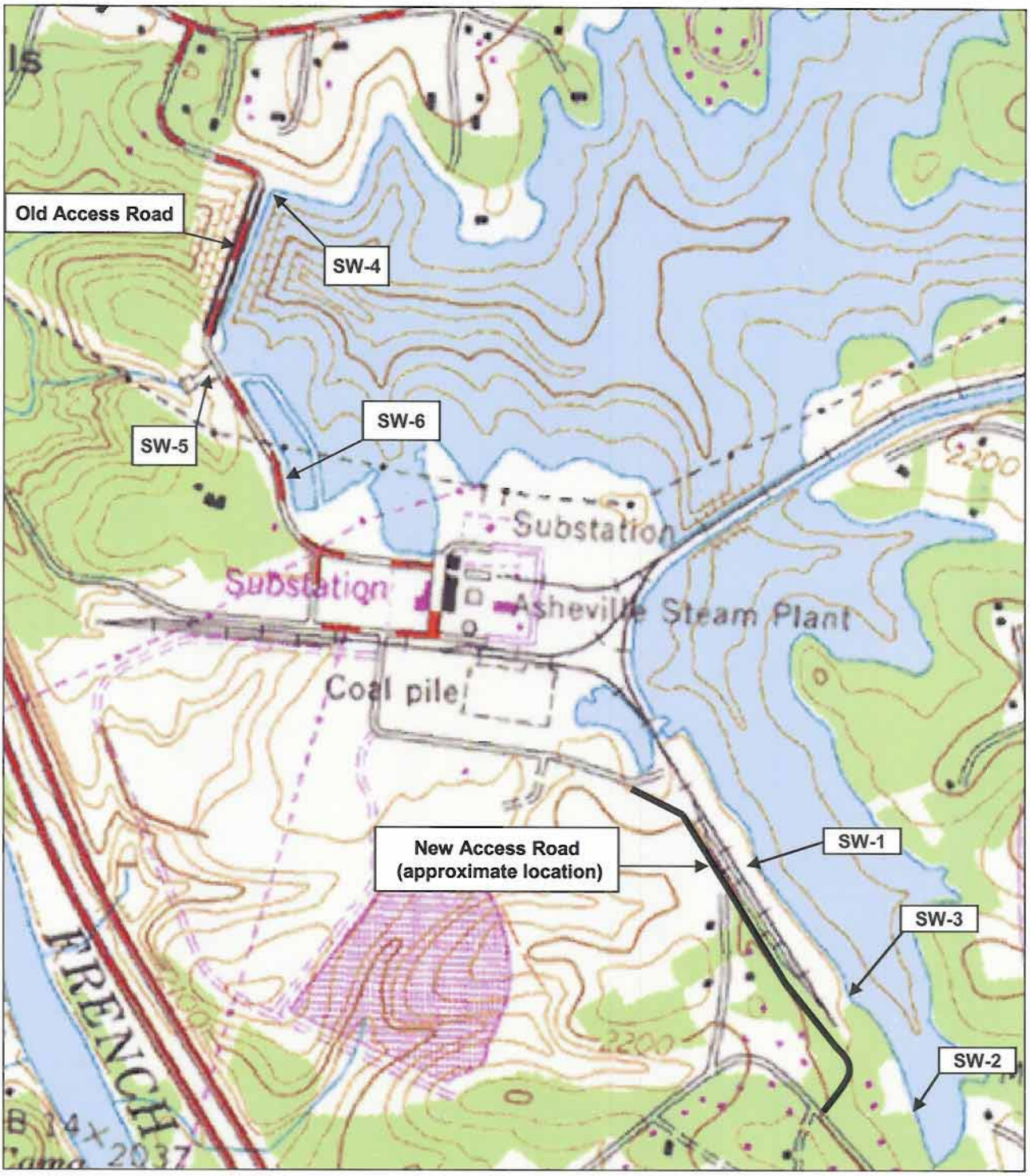
## Attachment 4

## Form 2C - Item VI - Potential Discharges Not Covered By Analysis

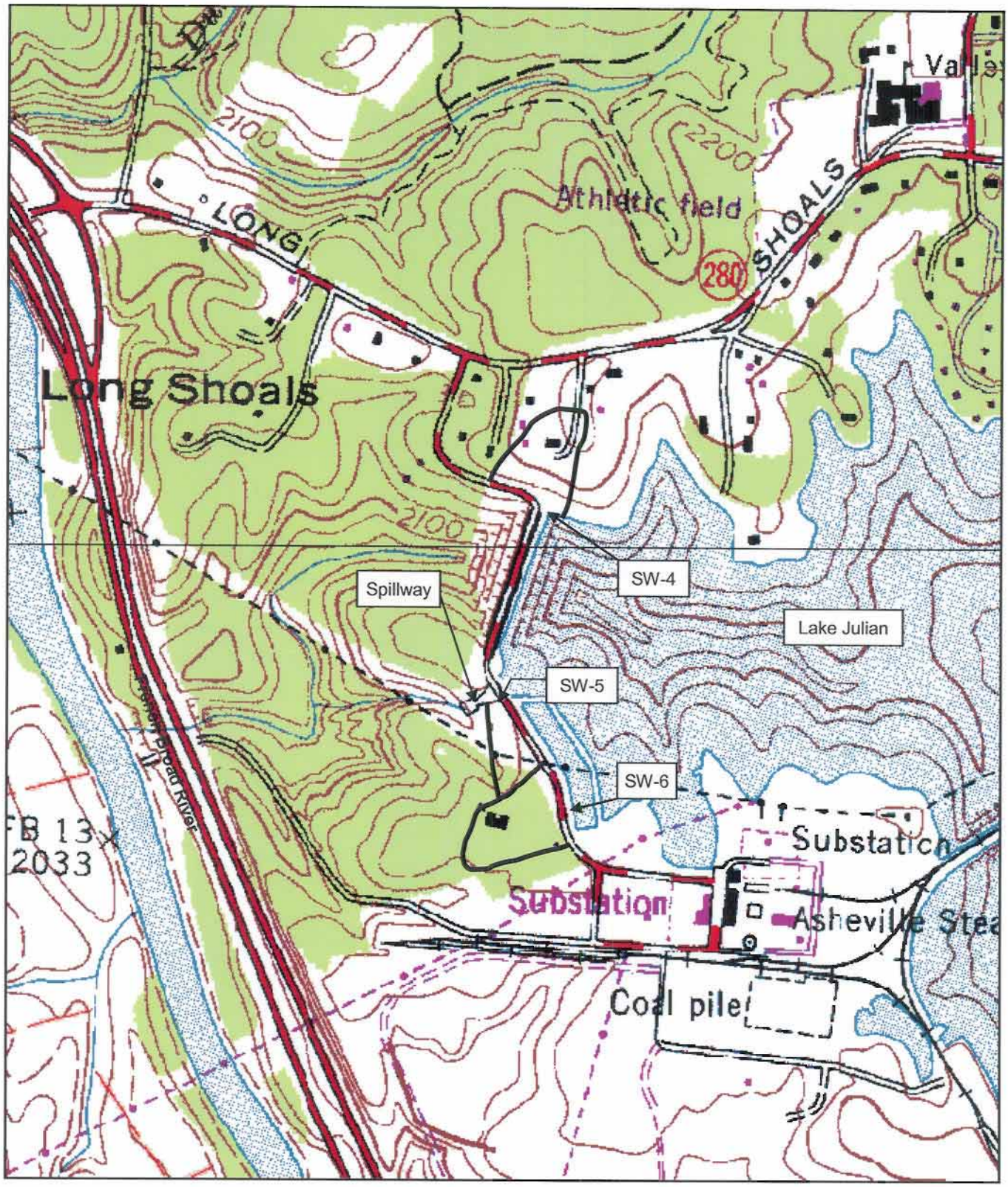
| Chemical | Estimated Quantity Used (per year) | Frequency | Purpose |
|---|---|---|---|
| Hydrazine (35%) | 400 gallons | Continuous | Oxygen scavenger in boiler |
| Ammonium hydroxide | 500 gallons | Continuous | pH control of boiler water |
| Sodium hydroxide (25 %) | 24,000 gallons | Continuous | pH control of ash pond |
| Sodium hydroxide (50%) | 30 gallons | As required | pH control of boiler water |
| Sodium hypochlorite (15%) | 10,000 gallons | As required | Control of biological fouling on heat exchangers |
| Sodium molybdate | 100 pounds | As required | Corrosion control in closed cooling water system |
| Tetraammonia EDTA (38%) | 35,000 pounds | Every 5 to 8 years | Boiler cleaning |
| Urea | 150,000 gallons | Continuous during high ozone months | NOx control |
| Sulfuric acid (93%) | Variable | As needed | pH control pf ash pond |
| BetzDearborn Dustreat DC9136 | 11,400 pounds - estimated | As required | Coal dust suppression - proprietary chemical |
| Fyrewash (detergent) | 200 gallons | As needed | Combustion turbine blade washing |
| Detergents/cleaning agents | Variable | As needed | Housekeeping |
| Limestone (Calcium carbonate) | 72,000 tons - estimated | Continuous | Flue Gas Desulfurization |
| Polymer (high weight, anionic, emulsion-type) | 3250 pounds - estimated | Continuous | Solids removal – FGD wastewater |
| Coagulant (Ferric chloride – 41%) | 3000 gallons - estimated | Continuous | Solids removal – FGD wastewater |
| Sodium Hydroxide (25%) | 7700 gallons - estimated | Continuous | pH adjustment – FGD wastewater |
| Hydrochloric Acid (30%) | 2000 gallons - estimated | Continuous | pH adjustment – FGD wastewater |

## Attachment 5

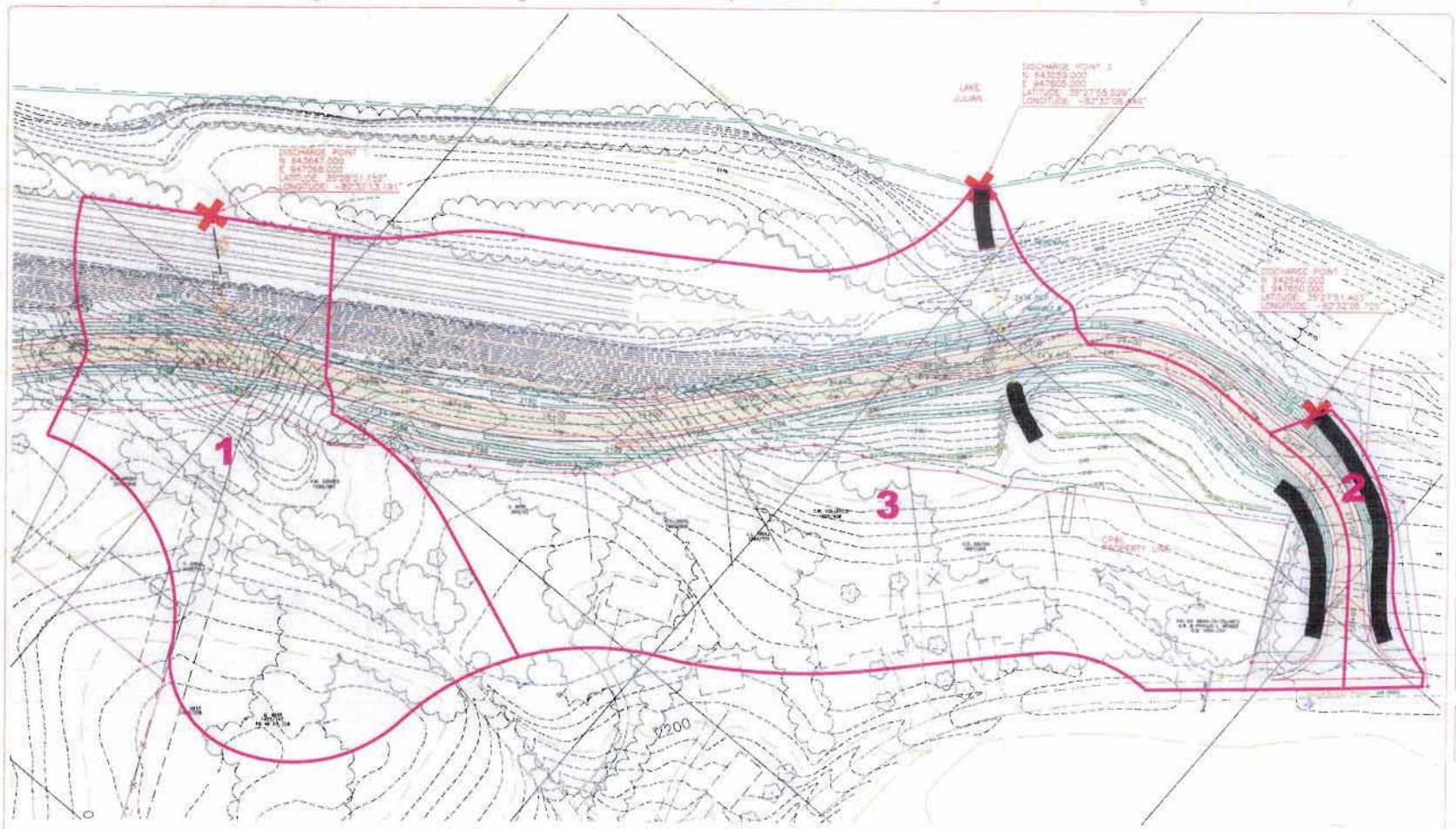
## Form 2F – Item III Site Drainage Map




**Attachment 5 – Form 2F – Item III – Map**
Carolina Power & Light Company
Asheville Steam Electric Plant
Buncombe County
Page 1 of 3




Attachment 5 – Form 2F – Item III Site Drainage Map
Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
Buncombe County
Page 2 of 3




OUTFALLS TO LAKE JULIAN

| BASIN | A OFFSITE PERVIOUS AREA sf/ac | B OFFSITE IMPERVIOUS AREA sf/ac | C ONSITE PERVIOUS AREA sf/ac | D ONSITE IMPERVIOUS AREA sf/ac | SUB-TOTALS sf/ac |
|---|---|---|---|---|---|
| 1 | 97689<br>2.24 | 7350<br>0.15 | 48147<br>1.11 | 6988<br>0.16 | 160634<br>3.68 |
| 2 | - | - | 10739<br>0.25 | 5737<br>0.13 | 16456<br>0.38 |
| 3 | 164153<br>3.77 | 9051<br>0.21 | 182986<br>4.45 | 37521<br>0.83 | 394691<br>9.06 |
| | | | | | 571781 SF<br>13.13 AC |

JACOBS ENGINEERING

CAROLINA POWER AND LIGHT COMPANY
ASHEVILLE
NORTH CAROLINA
ACCESS ROAD PROJECT

CIVIL

NEW ACCESS ROAD
STORMWATER OUTFALLS

17N64422-RD-C-R-0001 | 0

## Attachment 6

## Form 2F – Item IV-B Narrative Description of Pollutant Sources

**Attachment 6**

**Form 2F - Item IV B. Narrative Description of Pollutant Sources**

The enclosed site drainage maps (Page 1 – new access road, Page 2 – old access road) display the sections of the site access roads from which storm water will discharge to Lake Julian or an unnamed tributary of Powell Creek which discharges into the French Broad River. Storm water from other sections of the roads flows via sheet flow or is conveyed to the ash pond or to the hot pond prior to discharging to, respectfully, the French Broad River and Lake Julian. The discharges from the hot pond and ash pond to Lake Julian and the French Broad River, respectively, are NPDES permitted discharge outfalls.

New Access Road

The portion of the road from which storm water will discharge directly to Lake Julian is divided into 3 separate drainage areas, each with an outfall. Storm water that is routed to SW-1 is carried to Lake Julian using piping, grass-lined ditches, concrete-lined ditches and sheet flow. The area drained contains Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. (PEC) property, non-PEC property, the access road and a railroad storage yard where coal-filled rail cars can be stored. Storm water that is routed to SW-2 will be collected in a riprap-lined ditch that will then allow sheet flow to Lake Julian. The area drained contains only the access road. Storm water that is routed to outfall SW-3 will be routed through piping and both grass and riprap-lined ditches. The area drained to SW-3 includes PEC property, non-PEC property, the access road, and the railroad storage yard. PEC can only provide a rough estimate of impervious area for the property not owned by PEC.

The property used for the new access road was purchased by PEC. The past use of this property was residential; therefore, PEC has no knowledge of any significant materials that have been treated, stored or disposed on this property in the past. PEC staff performed a limited Phase 1 Environmental Site Assessment on this property and found no visual evidence of the storage, use, or disposal of chemicals or hazardous substances. Any chemicals used are likely limited to consumer products in limited quantities. PEC has stored in the past and will store in the future coal at the railroad storage yard. The coal is contained in rail cars that are waiting to be unloaded at the plant. Other than the coal stored at the railroad storage yard, PEC has not treated, stored or disposed of any significant materials on any property already owned by PEC in the drainage area of this access road and has no plans to treat, store, or dispose of significant materials on this access road or on immediately surrounding property owned by PEC in the future. No materials loading or unloading activities will take place on the access road, railroad storage yard, or on immediately surrounding property owned by PEC. Various brands of commercial herbicides (i.e., Roundup, Crossbow) might be used to control weeds and other unwanted plant growth for security reasons. These herbicides will be carefully applied by licensed applicators, or persons under the immediate supervision of a licensed applicator, in accordance with the manufacturer's instructions. Fertilizers, pesticides (other than herbicides), and soil conditioners will not

be used by PEC. No hazardous waste treatment, storage, or disposal will occur on this property.

Old Access Road

The portion of the road from which storm water will discharge directly to Lake Julian is divided into 3 separate drainage areas each with an outfall. Storm water that is routed to SW-4 flows over grass-lined ditches and gravel to Lake Julian. The area drained contains PEC property, non-PEC property, and the old access road. Storm water that is routed to SW-5 is collected in a grass-lined ditch that discharges into a concrete conveyance that discharges into the Lake Julian spillway. The spillway discharges to an unnamed tributary of Powell Creek which discharges to the French Broad River. The area drained contains only PEC property, including the access road. Storm water that is routed to outfall SW-6 is conveyed through grass-lined ditches and piping to Lake Julian. The area drained contains PEC property including the access road and a picnic area with several buildings and a shelter.

PEC has not treated, stored or disposed of any significant materials on property owned by PEC in the drainage area of this access road and has no plans to treat, store, or dispose of significant materials on property in the drainage area owned by PEC. No materials loading or unloading activities will take place on the access property owned by PEC. Various brands of commercial herbicides (i.e., Roundup, Crossbow) might be used to control weeds and other unwanted plant growth for security reasons. These herbicides will be carefully applied by licensed applicators, or persons under the immediate supervision of a licensed applicator, in accordance with the manufacturer's instructions. Fertilizers, pesticides (other than herbicides), and/or soil conditioners will not be used by PEC in this drainage area. No hazardous waste treatment, storage, or disposal will occur on PEC property in this drainage area.

## Attachment 7

## Form 2F – Item IV-C Narrative Description of Pollutant Sources

## Attachment 7

### Form 2F - Item IV C. Narrative Description of Pollutant Sources

No conventional treatment will be provided for the storm water discharging from any of the outfalls. Prior to discharging to Lake Julian, storm water from Outfalls SW-1, SW-2, SW-4, SW-5, and SW-6 will flow over a vegetative buffer which will provide some filtering of sediment from the storm water.

All coal, limestone, and gypsum trucks that travel on the access road are required to be covered which will prevent spillage on this road. These same trucks are required to wash down their wheels prior to exiting the site. The wash water from these wheel washes is discharged in the ash pond for treatment.

During maintenance activities, sludges removed from ditches or manholes may be transported to the old and/or new ash pond for disposal.

## Attachment 8

## NPDES Permit Application Requirements for §316(b) Compliance

## *§ 316(b) Supplement to NPDES Permit NC0000396 Reissuance Application*

**- Clean Water Act Section 316(b) -**

The Asheville Steam Electric Plant is subject to the §316(b) Phase II regulations. Since the plant's cooling water intake is located on a freshwater lake (Lake Julian) it is subject only to the impingement mortality reduction performance standard. This standard is a 80 – 95 % reduction in impingement mortality from the calculation baseline.

The Asheville plant chooses to demonstrate that the design intake velocity is 0.5 feet per second or less in accordance with the compliance option presented in §125.94(a)(1)(ii). This demonstration allows the plant to be deemed compliant with the impingement mortality performance standard. Additionally, according to the regulation the plant is <u>not</u> required to submit or be subject to the following:

1 Comprehensive Demonstration Study (CDS) including the Proposal for Information Collection [PIC] (§125.95)

2 Monitoring associated with any CDS component (§125.96)

3 Record Keeping and Status Report (§125.97)

4 Permitting activities associated with §125.98.

As part of this NPDES permit reissuance application, the Asheville Plant is submitting the information as required by §122.21(r)(1)(ii).

**- Demonstration of Compliance in Accordance with §125.94(a)(1)(ii) -**

§125.94(a)(1)(ii) authorizes a facility that demonstrates their design intake velocity is 0.5 feet per second (fps) or less to be in compliance with the impingement mortality performance standard.

The cooling water intake structure located on the lake consists of an excavated cove and an intake pump structure located at the end of the cove. At the mouth of the cove is a skimmer wall which is described and depicted elsewhere in this material. The opening at the bottom of the skimmer wall allows cooler water to enter the cove and subsequently the pumps. An aerial photograph of this layout has been provided in Figure 3. Also attached is the engineering drawing for the skimmer wall (ELEV A-A is the cross-sectional of the skimmer wall).

Since the cove is a constructed waterway it is considered part of the intake structure[1]. The actual inlet or opening to the cooling water intake structure is through the bottom of the skimmer wall. Additionally, since the facility has minimal operational problems with debris or fish clogging the condenser tubes, there are no 3/8 inch screens at either the skimmer wall opening or the intake pumps. The pumps do have bar racks and a very coarse mesh, fixed screen (chicken wire). The intake water velocity passing through the bottom of the skimmer wall is calculated to be 0.42 fps based on the ratio of design flow in cubic feet per second (cfs) to the square footage of the open area. (See Figure 4). Consequently the plant has demonstrated compliance with 40 CFR 125.94(a)(1)(ii) [design intake velocity of < 0.5 fps.]. Further rationale for compliance is as follows:

- "Design intake velocity" is defined at 125.93 to mean the speed at which the intake water passes through the open area of the intake screen or other device. The skimmer wall is an "other device" so the water passing through the open area of another device is < 0.5 fps.

- Since there are no screens at the opening to the intake structure there is nothing to impinge fish.

- Intake velocities are low and approach velocities should be lower so fish can maintain sustainable swimming speeds and escape being caught up in any currents that would force them into the cooling water structure. However, even if fish enter into the intake structure (in this case the cove) there still is no regulatory issue since entrainment (usually applicable to non-motile, planktonic eggs and larva which are minimally found in a fresh water lake ) is not a performance standard for intake structures located on fresh water lakes.

[1] 40 CFR §125.93 defines a cooling water intake structure as the total physical structure and any associated constructed waterways.

- River Intake -

The plant operates a make-up pump on the French Broad River that serves to keep the lake at optimum levels for operation of the plant. We believe the river intake pump is not subject to the Phase II rules nor is it a factor for facility compliance. The background for this position is as follows:

- The design of this make-up pump is currently 7.2 MGD and will be increased to 9.36 MGD to provide additional make-up to the lake due to projected Flue Gas Desulfurization (air scrubber) process water needs. It is debatable whether this intake should be considered for 316(b) purposes. This make-up pump is operated based on lake levels not necessarily cooling water needs. The regulation states that at least 25% of water withdrawn must be used exclusively for cooling purposes, measured on an average annual basis. For the past 12 years the average annual flow of the makeup pump has been 2.24 MGD or about 31% of the design. We cannot say definitively that this 2.24 MGD is used exclusively for cooling. For example on the average there is about 2.08 MGD of lake water withdrawn that is used for non-cooling purposes (ash sluice, fire pump testing, and consumed service water). Also there is an undetermined amount of lake water lost through dam seepage that needs to be made up. If we subtract the 2.07 MGD non-cooling water uses from the flow of 2.24 MGD we find that only about 8%[2] of the annual average 2.24 MGD flow from the river intake can be said to be used exclusively for cooling. However, this 8% is below the 25% threshold so the Phase II regulations would not apply.

- Furthermore when this makeup pump is expanded to 9.36 MGD the expansion will coincide with the need for process water for the air scrubbers, not cooling water. The air scrubbers will require an average of approximately 1.00 MGD of process (non-cooling) water. Therefore if we add the 1.00 MGD to the existing 2.07 MGD average consumptive (non-cooling) use we obtain a percentage of possible cooling water use of only approximately 5%[3], still below the 25% threshold.

- Looking at the aggregate of the cooling system for the plant, the river intake will constitute only about 3% of the total design intake flow of the cooling system. Since the river intake design is only about 3% of the total design flow for the cooling system (assuming the river water is used exclusively as cooling water) the plant takes the position that if 97% of the cooling system intake structure is in compliance with the phase II regulations due to compliance with §125.94(a)(1)(ii), the entire system is in compliance with the 80 - 95% impingement reduction standard.

[2] 2.24-2.07=0.17; 0.17/2.24=.075 ≈8%
[3] 3.24-3.07=0.17;0.17/3.24=.052 ≈5%

- In addition the river intake design is considerably less than 5%[4] of the mean annual flow of the French Broad River so entrainment is not an issue.

[4] Mean Annual Flow of French Broad River = 1800 cfs (1162.8MGD) as per communication with J.C. Weaver, USGS, September 2003. 9.36/1162.8 =.0080 ≈0.8%

**§122.21(r)(2) – Source Water Physical Data**

*(i) A narrative description and scaled drawings showing the physical configuration of all source water bodies used by the facility, including areal dimensions, depths, salinity and temperature regimes, and other documentation that supports the determination of the water body type where each cooling water intake structure is located.*

The plant's cooling water source waterbody is Lake Julian, located in Buncombe County, North Carolina. Lake Julian is a deep, freshwater mountain lake with relatively clear waters, low nutrient concentrations, and low biological productivity. The lake was created as a cooling lake by impounding Powell's Creek, a tributary of the French Broad River (see Figures 1 and 2). The lake reached full-pool elevation in June 1963. What is referred to as the discharge arm of the lake has a surface area of approximately 106.2 acres and a mean depth of approximately 13 feet; the main body of the lake has a surface area of approximately 215 acres, a maximum depth of approximately 108 feet, and a mean depth of approximately 29.5 feet. These two arms of the lake are physically divided by two earthen railroad dikes. This is a fresh water lake and the salinity seldom increases above 10 mg/L. In regard to temperature regimes, cooler (hypolimnectic) water is withdrawn under the skimmer wall in the main body of the lake. During 2004, the temperature of the surface waters in the main body ranged from 17.6 °C to 34.5 °C with a mean of 26.3 °C. The mean water temperature recorded during 2004 in the main body was within the range of mean values reported since 1992. A thermocline develops during the spring and summer at about 62-65 feet in depth. The water temperature in the discharge arm of the lake ranged from about 11.1 °C to 36.8 °C with a mean of 26.1°C.

In addition to the lake as the predominant cooling water source waterbody, the plant operates a make-up pump on the French Broad River that serves to keep the lake at optimum levels for operation of the plant. At the location of the make-up pump the river is approximately 200 feet wide with depths varying depending on rainfall. On September 17, 2003 Progress Energy conducted a comprehensive bathymetry of the section of the river at the plant. The average depth was 3.17 feet with ranges from 0.5 feet to 8.4 feet. Temperature regimes are expected to reflect ambient influences.

*(ii) Identification and characterization of the source waterbody's hydrological and geomorphological features, as well as the methods you used to conduct any physical studies to determine your intake's area of influence within the waterbody and the results of such studies*

- Lake Julian –

Hydrological Features - The lake's 4.7 square mile watershed is primarily residential and urban. Based on the annual average flow (cfs/square mile) from the USGS gauging stations in Buncombe County that have adequate historic records the annual average drainage is approximately two cfs /square mile. Water loss from the lake water budget is attributed to evaporation, spill over the dam, seepage and consumptive use by the plant.

Geomorphological Features – The relief contour of the lake bottom is depicted in the attached topographical map (Figure 2).

Area of Influence - Since no PIC or new biological studies are required to be developed, no area of influence has been determined

- River Makeup Intake -

Hydrological Features – The drainage area of the French Broad River at the intake site is approximately 654 square miles. Use of the annual average flows from the USGS gauging station downstream at Asheville produces a mean annual flow of approximately 1800 cfs at the plant site.

Geomorphological Features – The river is approximately 200 feet wide with depth varying according to substrate and rainfall. Substrate consists of rocks and boulders.

Area of Influence - Since no PIC or new biological studies are required to be developed, no area of influence has been determined.

*(iii) Locational maps.*

See Figures 1 and 2

**§122.21(r)(3) – *Cooling water intake structure data.***

*(i) A narrative description of the configuration of each of your cooling water intake structures and where it is located in the water body and in the water column;*

- Lake Intake -

The plant's intake structure on the lake consists of an intake cove that has a submerged skimmer wall at its entrance and a cooling water pump structure at the other end. The skimmer wall is approximately 27.5 feet deep to the top of the submerged opening. The submerged opening has a dimension of approximately ten feet between the bottom of the entrance to the intake cove and the bottom of the skimmer wall. The submerged opening provides a total open area of approximately 1175 square feet. (See Attached Drawing of Skimmer Wall and Figure 3 which is a photograph of the entire structure).

-River Intake –

This small structure is located on the shore of the French Broad River approximately 240 feet upstream from the confluence of Powell's Creek and the river. It consists of a single pump housed in a structure that withdraws water from the water column of the river and pumps to a settling area in the lake. (See Attached Drawing of River Intake structure)

*(ii) Latitude and longitude in degrees, minutes, and seconds for each of your cooling water intake structures*

The entrance to the intake cove from the lake is located at Latitude 35° 28' 23" N and Longitude 82° 32' 38" W.

The river pump structure is located at Latitude 35° 28' 24" N and Longitude 82° 33'14" W.

*(iii) A narrative description of the operation of each of your cooling water intake structures, including design intake flows, daily hours of operation, number of days of the year in operation and seasonal changes, if applicable;*

- Lake Intake –

The lake intake pump structure contains four intake bays, two for each unit. Each Unit 1 intake bay contains a cooling water pump having a design capacity of 48,300 gallons per minute (gpm). Each Unit 2 intake bay contains a cooling water pump having a design capacity of 61,500 gpm. The total design capacity of the intake pumps is 316.2 million gallons per day (MGD). The attached graph (Figure 5) depicts the monthly average cooling water intake flow variations over the last five years. As can be seen the flows peak and remain close to maximum generally from May through September. The average annual flow is approximately 247 MGD. This represents a reduction credit from the design flow of about 22%. The operation of the cooling water pumps reflect the generation need and intake water temperature. Generally at least one pump per unit is in operation all the time with all pumps being operational during peak generation periods in the summer months.

- River Intake -

In order to ensure adequate lake levels for optimum operation it is necessary to pump makeup water from the French Broad River into the lake during periods of low rainfall and high evaporative losses. Other means of water loss includes seepage through the dam and consumptive use by the plant. The makeup pumps usually operate from May or June to October or November. The current design of the intake pump is 5000 gpm or 7.2 MGD. This pump represents only about 2%[5] of the total cooling system design. As previously mentioned the design of this pump will be increased to 6500 gpm (9.36 MGD) or about 3%[6] of the design flow of the cooling water intake structure pumps.

(*iv*) *A flow distribution and water balance diagram that includes all sources of water to the facility, recirculating flows, and discharges;*

See flow schematic attached to NPDES 2C application.

(*v*) *Engineering drawings of the cooling water intake structure.*

See attached drawings of unit 1 and unit 2 pumps and skimmer wall.

**122.21(r)(5) *Cooling water system data.***

*(i) A narrative description of the operation of the cooling water system, its relationship to cooling water intake structures, the proportion of the design intake flow that is used in the system, the number of days of the year the cooling water system is in operation and seasonal changes in the operation of the system, if applicable;*

Lake Julian is the source of once-through condenser cooling water for the Asheville Steam Electric Plant. Water is pumped from the main arm of the lake through the plant condensers (heat exchangers) where it condenses the pressurized steam that is spent after contacting the turbine blades that turn the generators. Once the steam is condensed it is returned to the boilers to be heated to steam again. The cooling water makes one pass through the condensers before being discharged back into the lake (termed once-through). The discharged cooling water is non-mechanically aerated prior to entering a small cooling basin. The small basin discharges into what is termed the discharge arm of the lake. The water then passes through a culvert system and enters the main body of the lake. The cooling cycle is completed when water from the lake passes beneath the skimmer wall and into the intake cove where water is then withdrawn by the condenser cooling water pumps. The lake cooling water intake pumps have a design flow of 316.2 MGD. Of this figure approximately 99% of the flow is used in the [cooling] system when all pumps are in operation. The cooling water pump operation is directly related to the operation of the cooling system needs. Usually in the winter months when the intake water is cooler the need to operate both pumps per unit is reduced. (See previously mentioned graph in Figure 5)

[5] 7.2/316.2 =.022 ≈2%
[6] 9.36/316.2 = .029 ≈3%

*(ii) Design and engineering calculations prepared by a qualified professional and supporting data to support the description required by paragraph (r)(5)(i) of this section.*

See attached supporting information

**- Information for Support of 122.21(r)(i) –**

Design Flow

| | Design (GPM) | Design (MGD) | Total (MGD) | |
|---|---|---|---|---|
| Unit 1[7] | | | | |
| Pump 1 | 48,300 | 69.55 | | |
| Pump 2 | 48,300 | 69.55 | | |
| Unit 2[8] | | | | |
| Pump 1 | 61,500 | 88.56 | | |
| Pump 2 | 61,500 | 88.56 | | |
| | | | 316.22 | |

Example Calculation : GPM to MGD

$$\frac{48{,}300 \text{ gallons}}{\text{minute}} \times \frac{1440 \text{ minutes}}{\text{day}} \times \frac{1 \text{ Million Gallons (MG)}}{1{,}000{,}000 \text{ gallons}} = 69.55 \text{ MG/Day}$$

Proportion of Cooling Water Used in the System

Generally approximately 2.08 MGD[9] of the cooling water that is withdrawn is used for non - cooling purposes. Proportioned to the intake design flow of 316.2 MGD, 99%[10] of the once-through cooling water is used for cooling purposes.

Number of Days / Year of Operation

Generally at least one cooling water intake pump runs everyday. On an infrequent occasion all pumps may be offline for a couple of days due to maintenance of the pumps or other plant systems.

Seasonal Changes

During the colder months of winter when the intake water is cooler, the need to run all pumps is diminished. Seasonal fluctuations of the cooling system operation is depicted in the attached graph (Figure 5). This information is based on monthly Discharge Monitoring Reports.

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[7] Progress Energy Asheville, Manual Number ASH-001-00221, Installation Job Summary, 1964
[8] Progress Energy Asheville, Manual Number ASH-002-00189, Extension Job Summary, 1971
[9] Water withdrawn through the cooling water pumps that is not used for cooling is 0.050 MGD Service water, 0.010 MGD Fire Protection System, and 2.02 MGD Ash Sluice. 0.05+.01+2.02 = 2.08 MGD
□ 316.2 – 2.08 = 314.12 MGD. 314.12 / 316.2 = 0.993 ≈99%

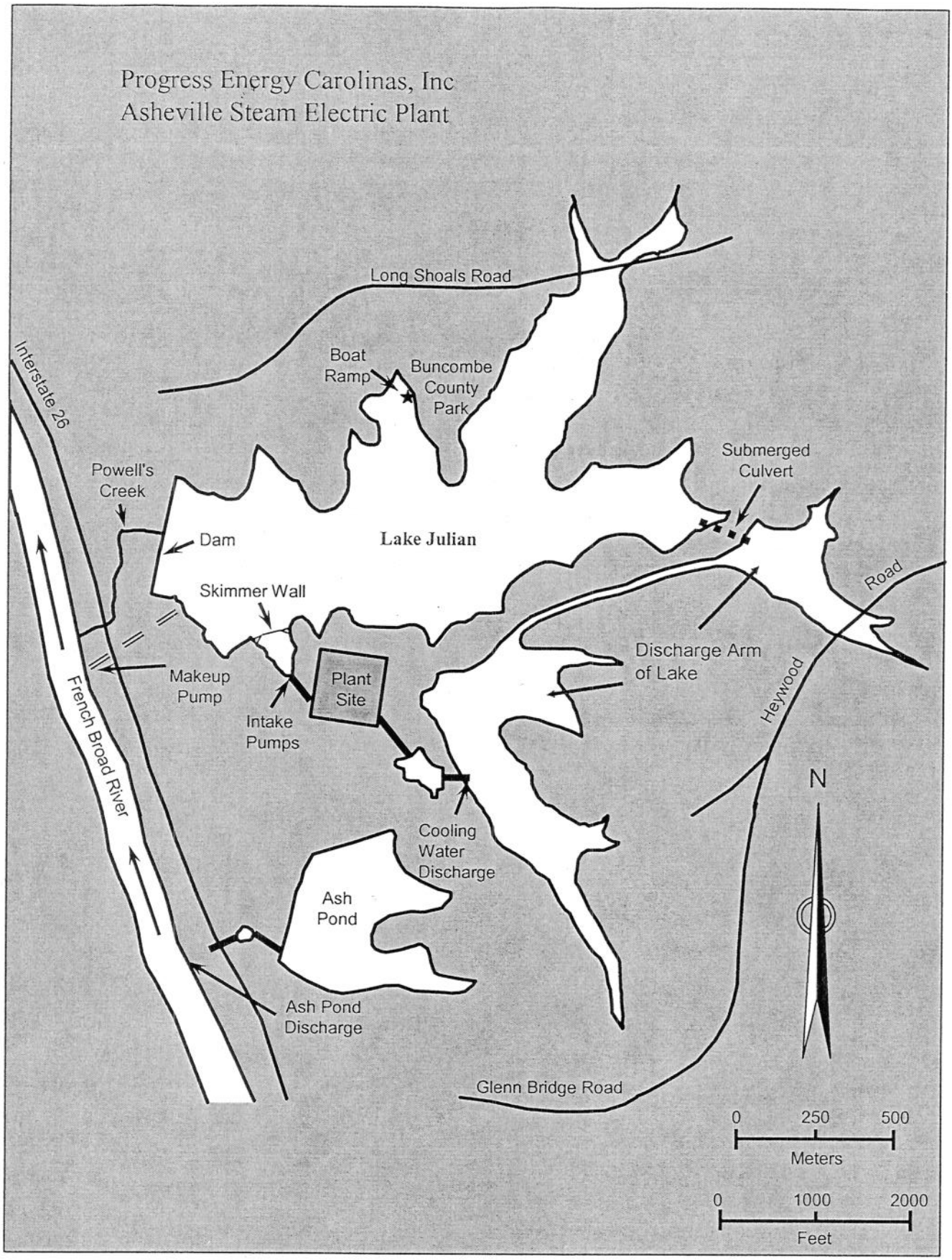
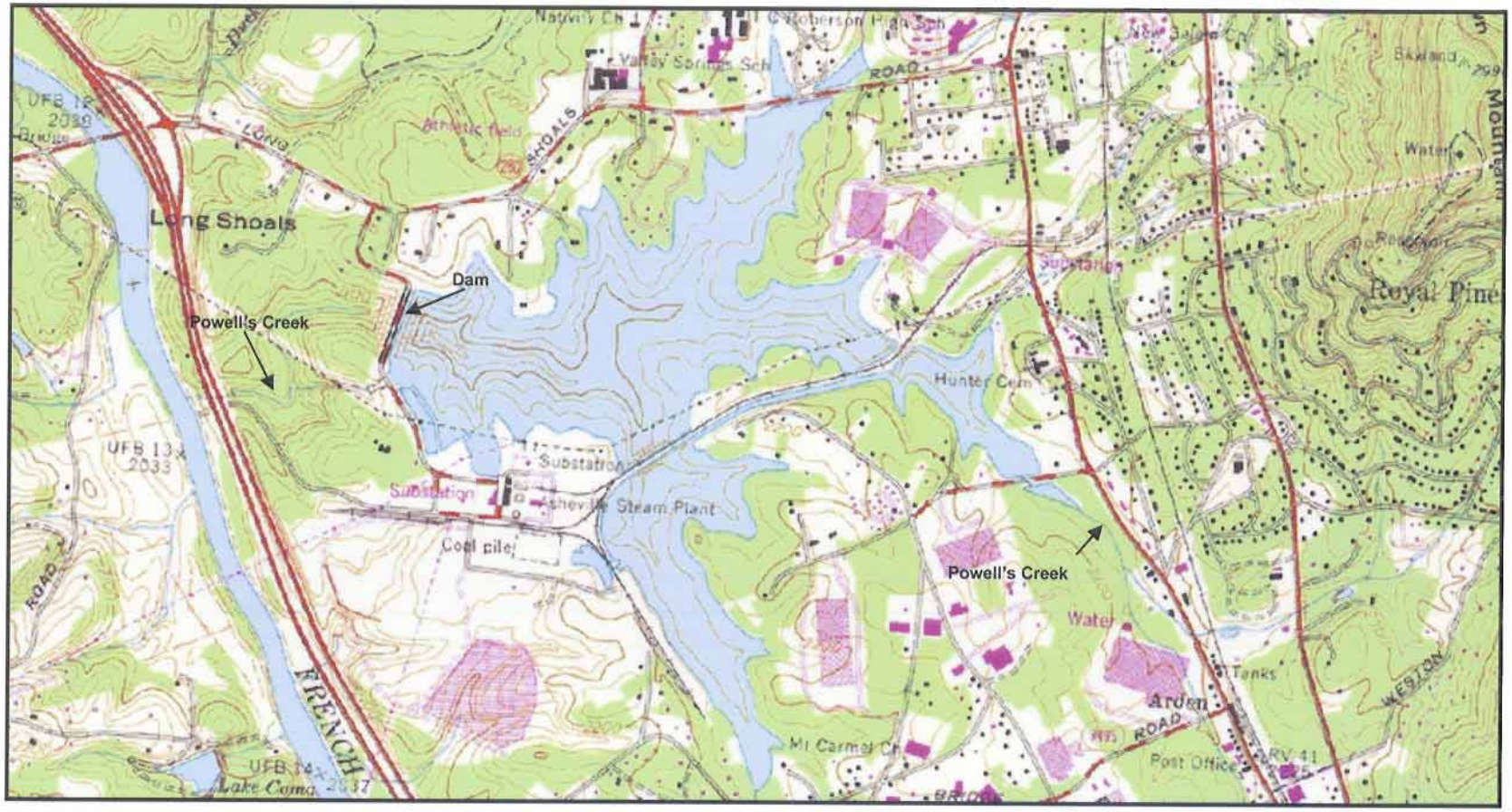

Progress Energy Carolinas, Inc
Asheville Steam Electric Plant
Long Shoals Road
Interstate 26
Boat Ramp
Buncombe County Park
Powell's Creek
Submerged Culvert
Dam
Lake Julian
Skimmer Wall
Road
Discharge Arm of Lake
Heywood
Makeup Pump
Plant Site
Intake Pumps
French Broad River
N
Cooling Water Discharge
Ash Pond
Ash Pond Discharge
Glenn Bridge Road
0 250 500
Meters
0 1000 2000
Feet

Figure 1

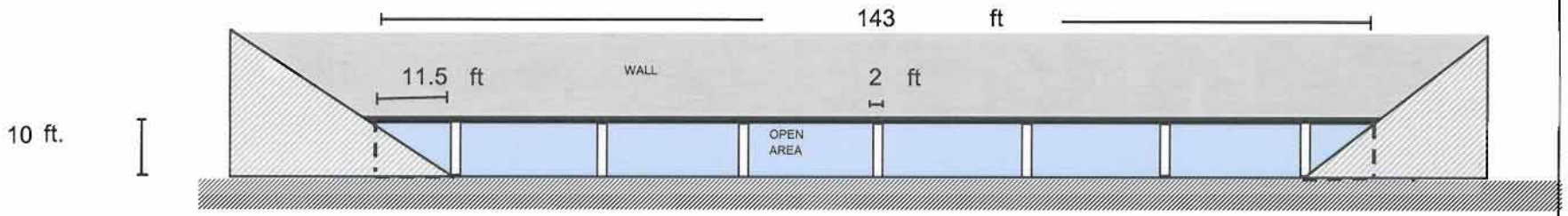



Progress Energy
Asheville Plant
NPDES Application
§316(b)
June 2005
Figure 2

Progress Energy
Asheville Plant
NPDES Application
§316(b) Figure 3

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Unit 1 | 48300 | gpm X 2 = | 69.55 | MGD | X 2 = | 139.10 | MGD | |
| Unit 2 | 61500 | gpm X 2 = | 88.56 | MGD | X 2 = | 177.12 | MGD | |
| | | | | | | 316.22 | MGD | |
| | | | | conversion MGD X | | 1.548 | = cfs | 489.5 cfs |

| | | | | |
|---|---|---|---|---|
| Large rectangle = | 143 X 10 = | 1430 | sq ft | |
| Minus 1/2 of each small rectangle = | | 1315 | sq ft | |
| Post sq.ft. = | 2 X 10 X 7 = | 140 | sq ft | |
| Minus post area = | 1175 | sq ft | | |
| **total open area =** | **1175** | sq ft | | |

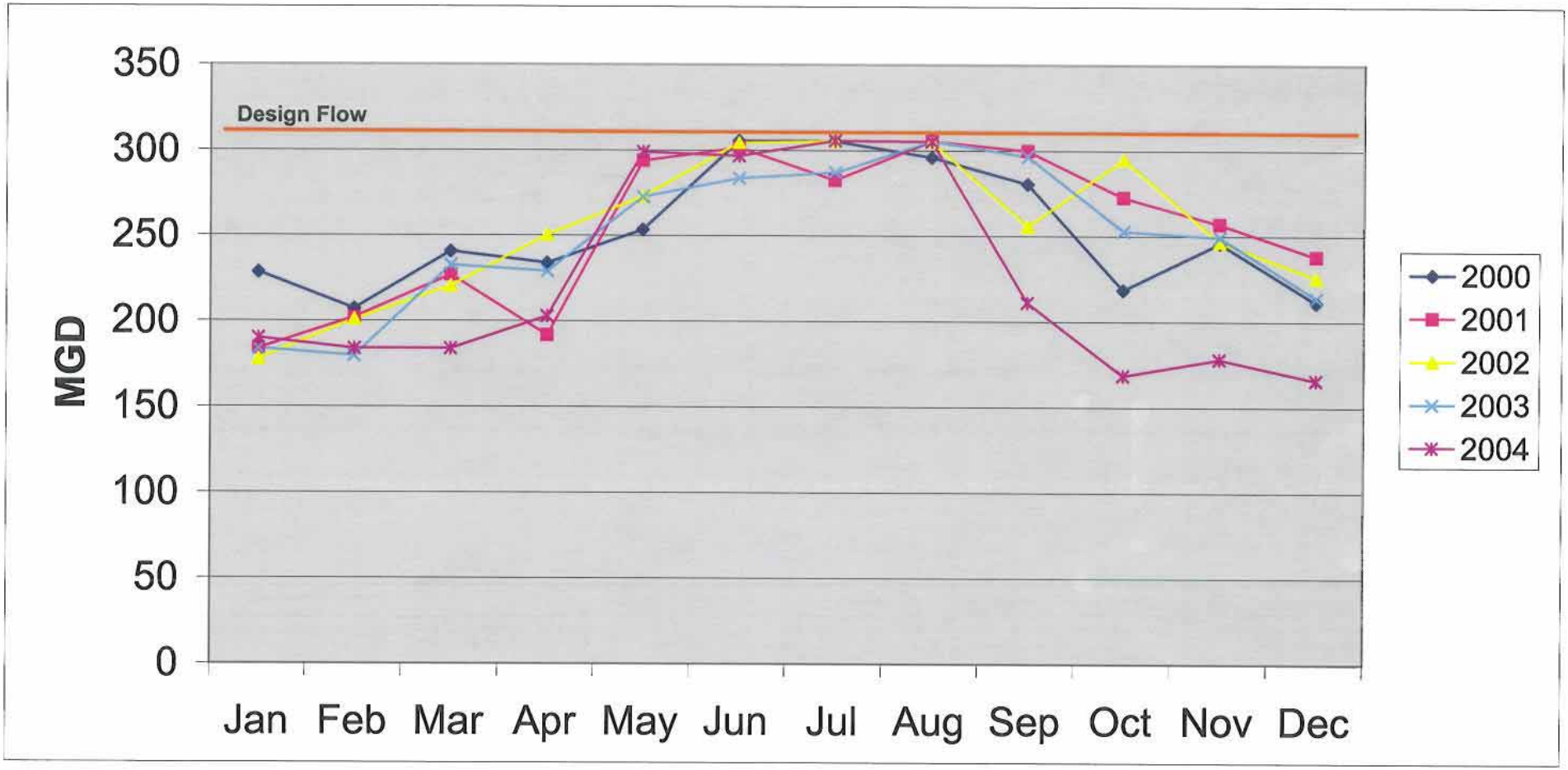



Design intake velocity =

489.5 cfs / 1175 sq. ft. = **0.42** fps

no scale

Figure 4




Monthly Average Flows

Progress Energy
Asheville Plant
NPDES Application
§316(b)
Figure 5

## ANCHOR BOLT SCHEDULE

| BOLT | | | | | | NUT | SLEEVE | | | ANCHOR ℄ | | TOP ELEV. BOLT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | NO. | DIA. | TYPE | LENGTH | LENGTH OF THR'D | NO. | NO. | DIA. | LENGTH | NO. | SIZE | |
| B1 | 16 | 1⅜ | VII | 3'-6 | 6 | 32 | 16 | 3 | 1-0 | 16 | 6×6×¾ | 2168.42 |
| B2 | 16 | 1 | III | 1'-6 | 3½ | 32 | – | – | – | – | – | 2167.98 |
| B3 | 16 | ¾ | III | 1'-2 | 1½ | 18 | – | – | – | 18 | 4×4×½ | SEE SECT B-B |
| B4 | 12 | ¾ | III | 1'-8 | 1½ | 12 | – | – | – | 12 | STD. WASHER | SEE PLAN |
| B5 | 8 | ¾ | VI | 2'-3½ | 1½ | 16 | – | – | – | – | – | " " |
| B6 | 10 | ⅞ | III | 2'-0 | 3½ | 20 | – | – | – | 10 | STD. WASHER | 2168.46 |
| B7 | 12 | 1 | VIII | 3'-0 | 2 | 12 | – | – | – | – | – | 2169.12 |
| B8 | 8 | 1 | VIII | 3'-0 | 2 | 8 | – | – | – | – | – | 2169.29 |
| B9 | 4 | 1 | VIII | 3'-0 | 2 | 4 | – | – | – | – | – | 2168.81 |

## QUANTITIES (NET, BY FIELD EXCEPT AS NOTED)

| | |
|---|---|
| CONC CLASS "B" (3000 PSI) | 468 CU. YDS |
| CONC CLASS "D" | 10 CU YDS |
| LADDER RUNGS AS PER DET "A" | 138 REQ'D |
| MP112 SHEET PILE | 74 LIN FT |
| 1½"φ BRASS PIPE | 100 " " |
| 2"φ " " | 37 " " |
| WATERSTOP (8" POLY VINYL CHLORIDE OR 18 GA. COPPER) | 44 LIN FT |
| 1" PREMOLDED JOINT FILLER | 40 SQ FT |
| 5"φ ZURN ZB 500 OR EQUAL | 2 REQ'D |
| 8" GALV. STEEL PIPE (2'-6 LG) WITH BLIND FLANGE | 1 REQ'D |
| 8" " (2'-0 LG) | 2 REQ'D |
| 10" " (1'-7 LG) | 1 REQ'D |
| 6" " (1'-7 LG) | 2 REQ'D |
| 4" " (1'-7 LG) | 1 REQ'D |
| FOR ANCHOR BOLTS SEE SCHEDULE THIS SHEET | |
| 26×1-2½ SOLE PLATE - SEE G-170904 | 3 REQ'D |
| 22×1-1-10 " " " | 2 REQ'D |
| 36×1-3-0 " " " | 1 REQ'D |

## NOTES

CONCRETE SHALL BE CLASS "B" (3000 PSI). SEE SPECIFICATION EBASCO-14-44, CONCRETE MASONRY.

ANCHOR BOLTS, EMBEDDED STEEL & ELEC. CONDUITS TO BE SET IN POSITION BEFORE CONCRETE IS PLACED. COAT ALL EXPOSED STEEL FOR FUTURE EXTENSION WITH BITUMASTIC (LADDER RUNGS NOT INCLUDED).

## REFERENCE DRAWINGS

| | |
|---|---|
| LIST OF DRAWINGS | A-170744 |
| INTAKE STEEL & SCREENS (A-S) | G-171048 |
| C.W. PUMP - (C.H. WHEELER) | 787-150 |
| C.W.S.-INTAKE-MAS SH2 | G-170904 |
| C.W.S-INTAKE-REINF SH1 | G-170905 |
| CIRCULATING WATER PIPE (A-S) | G-171046 |
| C.W.S. BLOCKS 1A, 1B & S | G-170916 |
| INTAKE HOUSE CONDUIT GROUNDING & LIGHTING PLANT (ELEC) | G-171134 |
| TRAV. SCREEN - ARRANGEMENT (LINK-BELT) | 787-1056 |
| " " - FDN DET'S ( " ) | 787-1057 |
| YARD PIPING DET'S & INTAKE STRUCTURE PIPING (MECH) | G-170773 |
| SCREEN WASH, SERVICE PUMP (WORTHINGTON) | 787-1476 |

| NO. | DATE | REVISION | BY | CH. | APPROVED | | |
|---|---|---|---|---|---|---|---|
| 4 | 1-24-63 | REV: (C7)(H7)(E7)(H7) SERVICE PUMPS ADDED (D7)(A8)(G16) QTYS & UNDER DWG DELETED (L16) TOP SLAB NOT RELEASED | A.H. | LEW | [illegible] | [illegible] | [illegible] |
| 3 | 11-7-62 | REV: (F5-8, H6) LOCATION & LENGTH OF SLEEVES, (H6) CANTILEVER DIMENSIONS | ET | LEW | [illegible] | [illegible] | [illegible] |
| 2 | 10-2-62 | REV: (B5-9) POCKETS FOR FUT. UNIT, (B-E7) SLEEVE LOCATION, (F3-9) HANDRAIL LOCATION, (H4) DIMENSIONS, (H11) SECT V-V, (B5, B6, F4, C17) BOLT MARK B6 TO B5; ADDED: (E6, E7, H11, H13) SLEEVES, (B5, C5, E5) BOLTS FOR TRAV. SCREENS, (C15) TAPERED DOWELS. | SX | ET | [illegible] | [illegible] | [illegible] |
| 1 | 8-23-62 | REV: (B5-B9) WALL THICKNESS (H12) ELEV BEAM (H15) WALL THICKNESS; REV: (L3-8, L12-15) BOT SLAB (E14) SECT U-U, (A14) HOLE DIA, (C17) BOLTS B1 & B2, (B8) SHEET PILE LOCATION; ADDED: (B8) KEY, (K3-6, M6) LOCATION OF POCKETS, (D9) W.S. & P.J.F. (C7-D7) PIPE | E.T. | LEW | [illegible] | | [illegible] |

WORK THIS DRAWING WITH G-170904

CAROLINA POWER & LIGHT COMPANY
SKYLAND STEAM ELECTRIC PLANT
1964 - 190,000 KW INSTALLATION - UNIT NO. 1

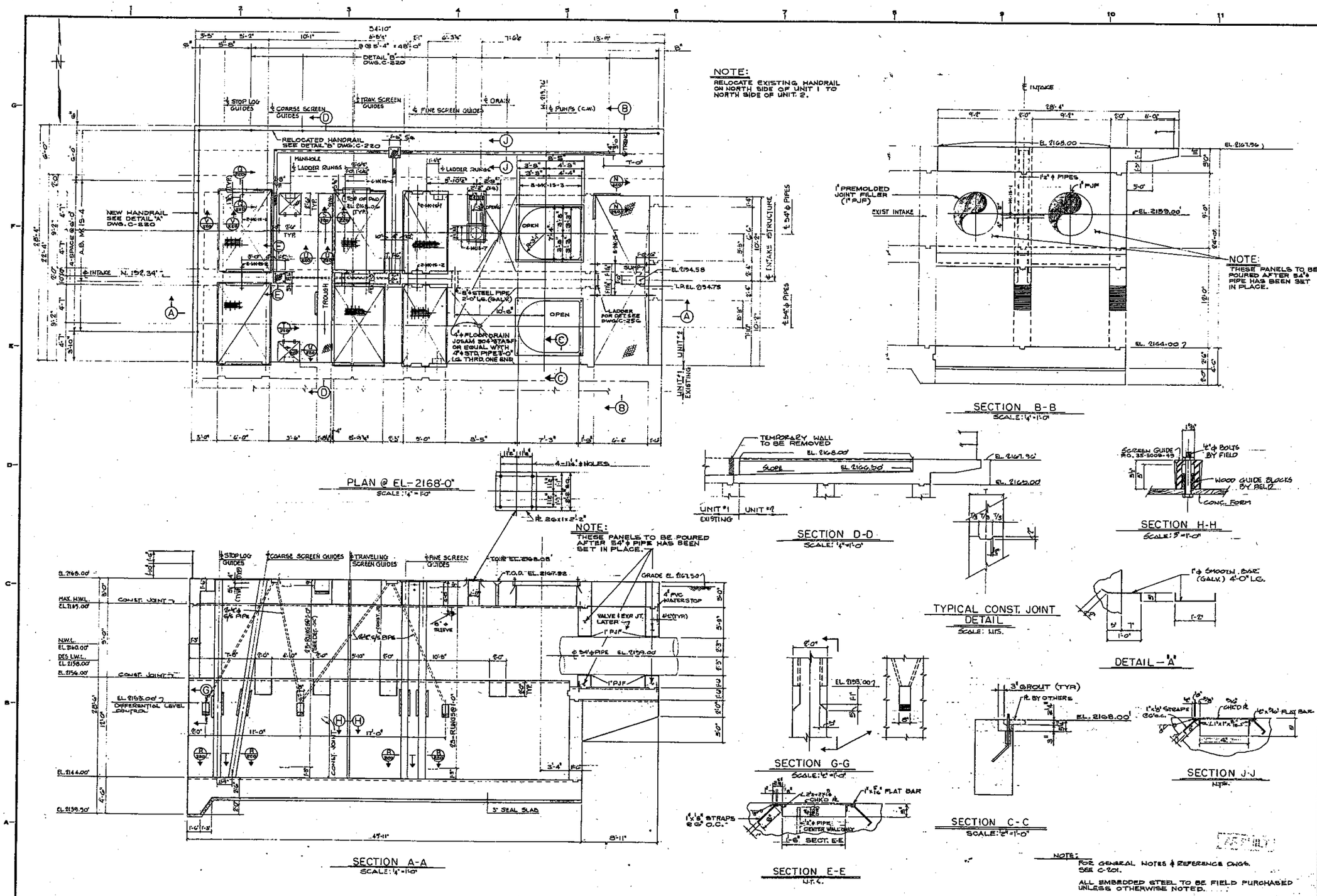
CIRCULATING WATER SYSTEM
INTAKE-MAS SH NO 1

EBASCO SERVICES INCORPORATED NEW YORK

SCALE ¼"=1'-0 | APPROVED | DATE JUL 23, 1962
DIV. CONC-HYD
DR. C.Z. [illegible]
CH. TRINGALI

G-170903

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER H. W. STUBER No. 2433


NOTE:
RELOCATE EXISTING HANDRAIL ON NORTH SIDE OF UNIT 1 TO NORTH SIDE OF UNIT 2.
PLAN @ EL-2168'-0"
SCALE: 1/4" = 1'-0"
SECTION B-B
SCALE: 1/4" = 1'-0"
NOTE:
THESE PANELS TO BE POURED AFTER 54"ϕ PIPE HAS BEEN SET IN PLACE.
SECTION D-D
SCALE: 1/4" = 1'-0"
SECTION H-H
SCALE: 3" = 1'-0"
TYPICAL CONST. JOINT DETAIL
SCALE: NTS.
DETAIL - "A"
SECTION A-A
SCALE: 1/4" = 1'-0"
SECTION G-G
SCALE: 1/2" = 1'-0"
SECTION C-C
SCALE: 1/2" = 1'-0"
SECTION J-J
NTS.
SECTION E-E
N.T.S.
NOTE:
FOR GENERAL NOTES & REFERENCE DWGS. SEE C-201.
ALL EMBEDDED STEEL TO BE FIELD PURCHASED UNLESS OTHERWISE NOTED.
ANCHOR BOLT SCHEDULE SEE DWG. AB-15-1
AS BUILT
D 10-16-69 RELOCATED FL. DRAIN, ADDED PUMP PL. & MK15-6 & MK15-7
C 9-17-69 ADDED PIPE SLEEVE
B 8-20-69 REVISED DIFF. LEVEL CONTROL PIPE LOCATION & SIZE, ADDED TRENCH IN TOP SLAB, ADDED SECT. J-J, DELETED SECT. F-F
A 7-17-69 REVISED TOP SLAB & SECTIONS E-E & F-F, NOTE, ADDED
6-20-69 ISSUED FOR CONSTRUCTION
DRAWN C.H.
CHECKED
APPROVED 6-20-69
CUSTOMER APP.
BROWN & ROOT, INC.
ENGINEERS AND CONSTRUCTORS
HOUSTON, TEXAS
CAROLINA POWER & LIGHT COMPANY
ASHEVILLE STEAM ELECTRIC PLANT
1971-200,000 KW EXTENSION-UNIT NO. 2
DRAWING TITLE
CONCRETE
INTAKE STRUCTURE
PLAN @ TOP OF SLAB
SECTIONS & DETAILS
CONTRACT NO. CF-32
DATE 6-20-69
SCALE: AS NOTED
B & R DRAWING NO. C-219-D
26-12

G-170908

KEY PLAN 1=100'

ELEV A-A 1=20'

FDN PLAN 1=20'

SECT L-L 1=20'

NOTE: ARRANGEMENT IN THIS SECT IS AN ALTERNATE TO ONE SHOWN ON G-171041, SECT S-S (N14)

SECT K-K (G-171041, E2-10) 1=50

FTG TYPE F1B (SHOWN) (1 BUILT)
FTG TYPE F1C (SIMILAR) (1 BUILT)

SECT J-J (E11) 1=10
REINF BY FIELD

ELEV B-B (E10) 1=10

PLAN
FTG TYPE "F1" (2 BUILT) 1=10

ELEV

DET 'A' (7 REQ'D) (13)
" 'D' (2 " " ) (15)

SECT E-E

ELEV

SECT G-G

DET 'B' (2 REQ'D) (12)
" 'C' (2 " " ) (14)

FOR ORIENTATION SEE ELEV A-A

D61-WELD TO FLANGE

SECT N-N

ELEV CC-CC (E9)

PLAN
FTG TYPE "F2A" (1 BUILT) 1=10

ELEV CC (E14) 1=10

ELEV DD (E9) 1=10

ELEV DD-DD (E9) 1=10

PLAN
FTG TYPE "F2" (1 BUILT) 1=10

SECT F-F 1=10

PLAN
CAP TYPE "F3" (1 BUILT)
FTG TYPE F3A" (1 BUILT) 1=10

SECT H-H 1=10

DET 'E' (68 REQ'D)
NO SCALE

PANEL TYPE I (18 REQ'D) 1=10

PANEL TYPE II (4 REQ'D) 1=10

PANEL TYPE III (12 REQ'D) 1=10

PILE ANCHORING DET 1=10

*8 ANCHORING BARS (3 EA REQ'D)
NO SCALE

PLAN
FTG TYPE "F1" (4 BUILT)
FTG TYPE "F1A" (1 BUILT) 1=10

SECT M-M

QUANTITIES (NET, BY FIELD UNLESS NOTED)

| | |
|---|---|
| CONCRETE CLASS "B" | BY FIELD 2.1 (C) 0 |
| TIMBER PILES | 68 REQ'D |
| 1"Ø BOLT AND NUT AS PER DET "E" | 2 REQ'D |
| AS ANCHORING BARS AS PER DET (N15) | |
| FOR REINF STEEL SEE BAR BENDING SCHEDULE B-170846-38 | |
| FOR STRUCT FRAMES & ANCHOR BOLTS SEE | G-171041 |

NOTES

CONCRETE SHALL BE CLASS "B" (3000 PSI). SEE SPECIFICATION ERASCO 141-64 CONCRETE MASONRY.

REINFORCING BARS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR BILLET-STEEL CONCRETE REINFORCING BARS, INTERMEDIATE GRADE; OPEN HEARTH STEEL (SERIAL DESIGNATION A15) OF THE A.S.T.M. ALL BARS SHALL BE DEFORMED. NO RECOILED MATERIAL WILL BE ACCEPTED; ALL BARS SHALL HAVE MINIMUM 2" CONCRETE COVER UNLESS OTHERWISE NOTED.

EACH PANEL WILL BE LIFTED BY 2-1" Ø HOOK STUBS FULLY THREADED INTO INSERTS.

PILES SHALL BE AS SPECIFIED IN SPEC. CAR 5-4-CH-571 AND BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 50 TONS AS DETERMINED BY STD ENR. FORMULA.

REFERENCE DRAWINGS

| | |
|---|---|
| LIST OF DRAWINGS | A-170744 |
| PEDESTAL STEEL & SKIMMER WALL (STRUCT) | G-171041 |
| BAR BENDING SCHEDULE | B-170846-38 |

FIELD DRAWINGS:
SKIMMER WALL FOOTING FI-ADDITIONAL REINF & ANCHORAGE (SK-787-F3-36) 787-2978 & 787-2979
COMMENTS "AS BUILT" ON DWG G-170908 (REV 1) 787-2960

NORTH CAROLINA — W. STUART — REGISTERED PROFESSIONAL ENGINEER — No. 2433

CAROLINA POWER & LIGHT COMPANY
SKYLAND STEAM ELECTRIC PLANT
1964 - 180,000 KW INST. ALLATION - UNIT NO. 1
CIRCULATING WATER SYSTEM
SKIMMER WALL - PLAN & DETAILS
ERASCO SERVICES INCORPORATED NEW YORK

| NO. | DATE | REVISION | BY | CK. | APPROVED |
|---|---|---|---|---|---|
| 2 | 4.28.64 | REV "AS BUILT" | T.J. | LEM | |
| 1 | 1-7-63 | REV-D12C1 POST; (2) D12 BACKS TO 12" D12 BACKS; ADD D12 N (17) P1 (2) D12 SECT N-N; (2) D12 SHORT TIES (2) P1 (6) D12 TIES - 3.0 CRS - (6) D12 BOTTOM PILE ANCH. D12 & CAP F1 (1) D12 NOTE, DELETED (N13) PILE ANCH DET. | A.N. | LEM | |

SCALE AS NOTED — APPROVED — DATE NOV 29, 1962
DWN. CONC. INT'P
DWN. TRUMBAU
CH. HARRELL
G-170908

ASH 008 J 040 008

DECK PLAN
PLAN
SECT A-A
SECT B-B
SECT C-C
ELEV M-M
RUNG DETAIL
SECT K-K
SECT F-F
ELEV H-H
DET 'D' (PLATE P1)
SECT E-E
DET 'K'
INTAKE
EARTH FILL
QUANTITIES (NET BY FIELD, UNLESS NOTED)
CONC CLASS "B" (3000 PSI) 62 CU YD
CONC CLASS "D" 3 CU YD
RIP RAP (1'-0 MIN ON 6" CR ROCK) 31 SQ YD
W.S. (6" POLYVINYL OR COPPER) 105 LIN FT
1" ϕ BRASS PIPE 1 LIN FT
8" ϕ STEEL PIPE FOR STILLING WELL 14 LIN FT
LADDER RUNGS AS PER DET.
FOR ANCHOR BOLTS SEE SCHEDULE THIS SHEET
NOTES
CONCRETE SHALL BE CLASS "B" (3000 PSI)
SEE SPECIFICATION EBASCO 14:44 CONCRETE MASONRY.
ANCHOR BOLTS, EMBEDDED STEEL & ELEC CONDUITS TO BE SET IN POSITION BEFORE CONCRETE IS PLACED
COAT ALL EXPOSED STEEL FOR FUTURE EXTENSION WITH BITUMASTIC (LADDER RUNGS NOT INCLUDED)
REFERENCE DRAWINGS
CAROLINA POWER & LIGHT COMPANY
SKYLAND STEAM ELECTRIC PLANT
1964 - 190,000 KW INSTALLATION - UNIT NO. 1
RIVER INTAKE
PLAN & SECTIONS-N
EBASCO SERVICES INCORPORATED NEW YORK
DATE DEC 17, 62
G-170895

**Appendix B**

2010 NPDES Permit Renewal Application
Questions 3 and 9

# Progress Energy

**NPDES permit renewal request**

**Asheville Steam Electric Plant**

**Permit Number: NC0000396**

**Buncombe County**

**June 11, 2010**

RECEIVED
JUN 16 2010
DENR-WATER QUALITY
POINT SOURCE BRANCH

Progress Energy

Hand Delivered

June 11, 2010

File Point: 12520-B-01

Tom Belnick, Supervisor
Complex NPDES Permitting Unit
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, NC 27699-1617

Subject: Carolina Power & Light Company dba Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
NPDES Permit No. NC0000396
Buncombe County
Renewal Application

Dear Mr. Belnick:

The current NPDES permit for the Asheville Steam Electric Plant expires on December 31, 2010. Progress Energy hereby requests that the NPDES permit for the facility be reissued. Enclosed are EPA Application Form 1 – General Information, EPA Application Form 2C – Wastewater Discharge Information and EPA Application Form 2F – Stormwater Discharges Associated with Industrial Activity, all in triplicate.

As we have previously discussed with DWQ staff, in order to facilitate enhancements to the existing dam of our 1964 ash pond, Progress Energy proposes to relocate outfall 001 to a point approximately 3000 feet downstream of its current location. This relocation will be necessary to allow for additional stabilization work to be undertaken on the existing 1964 ash pond dam. The proposed relocation is to a point where access under Interstate 26 already exists. Coordinates for the proposed discharge point are North 35.47367 and West -82.504. Enclosed with this renewal application is information pertaining to the 7Q10 and 1Q10 flows provided to us by staff of the USGS for this location.

With reissuance of the NPDES permit, Progress Energy requests the following language regarding usage of biocides and the completion of the Biocide Form 101 be added to the permit:

***The permittee shall not use any biocides except those approved in conjunction with the permit application. The permittee shall notify the Director in writing not later than ninety (90) days prior to instituting use of any additional biocide used in cooling systems which may be toxic to aquatic life other than those previously reported to the Division of Water Quality. Such notification shall include completion of Biocide/Chemical Treatment Worksheet--Form 101. Division of Water Quality approval is not necessary for the introduction of new biocides into outfalls that are tested for whole effluent toxicity. Completion of the Biocide Worksheet is thus, not necessary for those outfalls with toxicity testing requirement.***

In addition, Progress Energy also requests the following reductions in monitoring requirements based on analysis of sampling results during the term of the current permit:

**Progress Energy Carolinas, Inc.**
Asheville Steam Plant
200 CP&L Drive
Arden, NC 28704

**Outfall 005**
Remove sampling requirements for Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Nickel, Silver, Thallium, Zinc and Fluoride.

**Outfall 001**
Remove monitoring requirements for Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Silver, Thallium, Zinc, Fluoride, Total Nitrogen and Total Phosphorus.

Reduce required monitoring for Mercury to twice per month.

Condition A.(7) of the current NPDES permit for the Asheville Steam Electric Plant requires that Progress Energy request a continuation of its 316(a) variance beyond the term of the present permit. Enclosed is an EPA guidance letter dated August 11, 1988 outlining the general procedure to be followed in requesting the continuance of a 316(a) variance. The following is Progress Energy's response to the pertinent factors contained in the EPA general procedure for the reissuance of the 316(a) variance:

1. The permittee must request the variance be continued.

   Response: Progress Energy hereby requests continuation of the 316(a) variance reflected in its present NPDES permit for the Asheville Steam Electric Plant.

2. Plant operating conditions and load factors are unchanged and are expected to remain so for the term of the reissued permit.

   Response: The plant operating conditions and load factors are unchanged and are expected to remain so for the term of the reissued permit.

3. There are no changes to the permittee's knowledge to the plant discharges or other discharges in the plant area which could interact with thermal discharges.

   Response: During periods of drought, as makeup water is pumped from the French Broad River to Lake Julian to sustain operating cooling water levels, Progress Energy staff suspect there may be some influence in Lake Julian from our upstream discharge point in the French Broad River. This permit application includes a proposal to relocate the discharge point from the facility's ash pond (outfall 001) to facilitate enhancements to the facility's 1964 ash pond dam. This outfall relocation should also eliminate any potential influence in Lake Julian from our discharge in the French Broad River.

4. There are no changes to the permittee's knowledge to the biotic community of the receiving water body which could impact the previous 316(a) determinations.

   Response: As demonstrated by Progress Energy's environmental monitoring, since issuance of the current NPDES permit there have been no changes to the biotic community of Lake Julian which would impact the previous 316(a) determinations.

If you have any questions regarding the enclosed information, please contact Shannon Langley at (919) 546-2439.

*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 fines and imprisonment for knowing violations.*

Sincerely,

Garry A. Whisnant
Asheville Plant Manager

Enclosures

cc: Laurie Moorhead (Asheville Plant)
Crystal Diedrich (Asheville Plant)
Shannon Langley (PEB 4)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

August 11, 1988

REF: 4WM-FP

Mr. Clyde Baldwin
Division of Water
KY Natural Resources & Environmental
Protection Cabinet
Fort Boone Plaza
18 Reilly Road
Frankfort, KY 40601

RE: 316 Guidance for Permit Reissuance

Dear Clyde Mr. Baldwin:

Questions have arisen as to what procedures and activities are necessary in reissuing a permit for a facility which has thermal limitations based on a previous variance granted under Section 316(a) of the Clean Water Act. The following is provided as a follow-up to information provided at the February 1988, EPA/State meeting in Destin, Florida.

A thermal variance granted under §316(a) terminates on expiration of the NPDES permit of which it is a part (Attachment A). Procedures for a reissuance are virtually unchanged from an initial determination. The amount of data necessary to support the variance at the time of reissuance will probably be minimal. However, if conditions have changed materially, a significant quantity of information may be needed.

NOTE: To the extent that permittees are unaware of these requirements, they should be notified of them expeditiously so that they can be prepared.

The general procedure is as follows:

1. The permittee must request that the variance be continued, preferably at the time of permit application. At that time, he should provide a basis for that continuance. The basis could be as simple as: (a) plant operating conditions and load factors are uncharged and are expected to remain so for the term of the reissued permit, (b) there are no changes (to his knowledge) to plant discharges or other discharges in the plant site area which could interact with the thermal discharges, and (c) there are no changes (to his knowledge) to the biotic community of the receiving water body which would impact the previous 316 determinations.

2. If the permitting authority agrees with the basis, appropriate permit conditions would be developed; otherwise, additional data would be requested as needed. Request for additional data must be made within 60 days of receipt of the application (Answer to Question 7, Attachment A). Additional studies can be made a permit requirement if needed (Answer to Question 7).

3. The Fact Sheet/Rationale should contain a summary of 316 variance activities from the previous permits (dates, determinations, limitations, etc.) and an indication of the proposed basis for continuing the 316 variance. Sample language is included in Attachment B.

4. The Public notice requirements are contained in §124.75(a). Sample language is also included in Attachment B.

Should you have have questions or need assistance, feel free to contact me at 404/347-3012.

Sincerely yours,

Charlie

Charles H. Kaplan, P.E.
National Expert Steam Electric/Water

Enclosures

cc: Mr. R. Bruce Scott

Identical letters sent to all states in Region IV

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

U.S. ENVIRONMENTAL PROTECTION AGENCY

# GENERAL INFORMATION

*Consolidated Permits Program*

*(Read the "General Instructions" before starting.)*

I. EPA I.D. NUMBER

| S | | T/A | C |
|---|---|---|---|
| F | | | D |
| 1 | 2 — 13 | 14 | 15 |

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

## II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

| SPECIFIC QUESTIONS | Mark "X" YES | NO | FORM ATTACHED | SPECIFIC QUESTIONS | Mark "X" YES | NO | FORM ATTACHED |
|---|---|---|---|---|---|---|---|
| A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A) | | X | | B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B) | | X | |
| | 16 | 17 | 18 | | 19 | 20 | 21 |
| C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C) | X | | X | D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D) | | X | |
| | 22 | 23 | 24 | | 25 | 26 | 27 |
| E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3) | | X | | F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4) | | X | |
| | 28 | 29 | 30 | | 31 | 32 | 33 |
| G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4) | | X | | H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4) | | X | |
| | 34 | 35 | 36 | | 37 | 38 | 39 |
| I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5) | | X | | J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5) | | X | |
| | 40 | 41 | 42 | | 43 | 44 | 45 |

## III. NAME OF FACILITY

C 1 SKIP: Asheville Steam Electric Plant

15 | 16 - 29 | 30 — 69

## IV. FACILITY CONTACT

| A. NAME & TITLE *(last, first, & title)* | B. PHONE *(area code & no.)* |
|---|---|
| C 2 Whisnant, Garry A. Plant Manager | 828 687-5201 |
| 15 \| 16 — 45 | 46 — 48 \| 49 — 51 \| 52 — 56 |

## V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX

C 3 200 CP&L Drive

15 | 16 — 45

| B. CITY OR TOWN | C. STATE | D. ZIP CODE |
|---|---|---|
| C 4 Arden | NC | 28704 |
| 15 \| 16 — 40 | 41 — 42 | 47 — 51 |

## VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

C 5 200 CP&L Drive

15 | 16 — 45

B. COUNTY NAME

Buncombe

46 — 70

| C. CITY OR TOWN | D. STATE | E. ZIP CODE | F. COUNTY CODE *(if known)* |
|---|---|---|---|
| C 6 Arden | NC | 28704 | |
| 15 \| 16 — 40 | 41 — 42 | 47 — 51 | 52 — 54 |

EPA Form 3510-1 (8-90)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

| A. FIRST | B. SECOND |
|---|---|
| 4911 (specify) Electric Power Services | (specify) |

| C. THIRD | D. FOURTH |
|---|---|
| (specify) | (specify) |

VIII. OPERATOR INFORMATION

A. NAME: Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box: if "Other," specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P (specify)

D. PHONE *(area code & no.)*: A 828 687 5201

E. STREET OR P.O. BOX: 200 CP&L Drive

| F. CITY OR TOWN | G. STATE | H. ZIP CODE | IX. INDIAN LAND |
|---|---|---|---|
| Arden | NC | 28704 | Is the facility located on Indian lands? ☐ YES ☑ NO |

X. EXISTING ENVIRONMENTAL PERMITS

| A. NPDES *(Discharges to Surface Water)* | D. PSD *(Air Emissions from Proposed Sources)* |
|---|---|
| 9 N NC0000396 | 9 P |
| **B. UIC *(Underground Injection of Fluids)*** | **E. OTHER *(specify)*** |
| 9 U | 9 11-268-05A (specify) WNCRAPCA Air Permit |
| **C. RCRA *(Hazardous Wastes)*** | **E. OTHER *(specify)*** |
| 9 R | 9 WQ0000020 (specify) State non discharge permit for ash reuse |

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

Electric utility - This facility is an electric generating facility consisting of two coal fired units with a total net capacity of 376 Megawatts and two Internal Combustion turbines with a total net capacity of 324 MegaWatts.

XIII. CERTIFICATION *(see instructions)*

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| A. NAME & OFFICIAL TITLE *(type or print)* | B. SIGNATURE | C. DATE SIGNED |
|---|---|---|
| Garry A. Whisnant<br>Manager - Asheville Steam Plant | GP WC | 6/10/10 |

COMMENTS FOR OFFICIAL USE ONLY

EPA Form 3510-1 (8-90)

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): NC0000396

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM **2C** NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
**EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS**
*Consolidated Permits Program*

## I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| A. OUTFALL NUMBER (*list*) | B. LATITUDE | | | C. LONGITUDE | | | D. RECEIVING WATER (*name*) |
|---|---|---|---|---|---|---|---|
| | 1. DEG. | 2. MIN. | 3. SEC. | 1. DEG. | 2. MIN. | 3. SEC. | |
| 001 | 35 | 28 | 03 | 82 | 32 | 56 | French Broad River |
| 002 | 35 | 28 | 10 | 82 | 32 | 20 | Lake Julian |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

| 1. OUTFALL NO. (*list*) | 2. OPERATION(S) CONTRIBUTING FLOW | | 3. TREATMENT | | |
|---|---|---|---|---|---|
| | a. OPERATION (*list*) | b. AVERAGE FLOW (*include units*) | a. DESCRIPTION | b. LIST CODES FROM TABLE 2C-1 | |
| 001 | Ash sluice water | See attachment 2 for flows | Sedimentation, Neutralization | 1-U | 2-K |
| | Coal Pile runoff | See attachment 2 for flows | Sedimentation, Neutralization | 1-U | 2-K |
| | FGD wastewater | See attachment 2 for flows | Flocculation, coagulation, wetland treatment | 1-G | |
| | Low volume wastewater | See attachment 2 for flows | Sedimentation, Neutralization | 1-U | 2-K |
| | Water treatment wastes | | | | |
| | Boler blowdown | | | | |
| | Plant drains | | | | |
| | Ash hopper seal water | | | | |
| | Air preheater cleaning wastes | | | | |
| | Chemical metal cleaning wastes | | Evaporation of neutralization and precipitation | 1-F | 2-K |
| | Plant stormwater | See attachment 2 for flows | Sedimentation, Neutralization | 1-U | 2-K |
| | | | | | |
| | Combustion Turbine wastewaters | See attachment 2 for flows | Sedimentation, Neutralization | 1-U | 2-K |
| | | | | | |
| | | | | | |
| | | | | | |
| 002 | Once through cooling water | See attachment 2 for flows | Evaporation | 1-F | |
| | Circulating water to heat exchangers | See attachment 2 for flows | Evaporation | 1-F | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☑ YES (*complete the following table*) ☐ NO (*go to Section III*)

| 1. OUTFALL NUMBER (*list*) | 2. OPERATION(s) CONTRIBUTING FLOW (*list*) | 3. FREQUENCY a. DAYS PER WEEK (*specify average*) | 3. FREQUENCY b. MONTHS PER YEAR (*specify average*) | 4. FLOW a. FLOW RATE (*in mgd*) 1. LONG TERM AVERAGE | 4. FLOW a. FLOW RATE (*in mgd*) 2. MAXIMUM DAILY | 4. FLOW B. TOTAL VOLUME (*specify with units*) 1. LONG TERM AVERAGE | 4. FLOW B. TOTAL VOLUME (*specify with units*) 2. MAXIMUM DAILY | 4. FLOW C. DURATION (*in days*) |
|---|---|---|---|---|---|---|---|---|
| 001 | Water treatment wastes/Filter backwash | Rarely | | 0.003 | 0.006 | | | |
| | Combustion Turbines | ~ 2/year | | 0.003 per unit | 0.005 | | | |
| | Chemical metal cleaning waste | 0-90,000 Plans are | gallons to evap | produced instead of | every 5-8 discharge | years. | | |
| | Air preheater cleaning | 2/yr/unit | | 0.01 | 0.01 | | | |
| | Revers Osmosis reject stream (if installed for process water makeup) | as needed | | 0.015 | 0.075 | | | |

## III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☑ YES (*complete Item III-B*) ☐ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☑ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| 1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY | b. UNITS OF MEASURE | c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*) | 2. AFFECTED OUTFALLS (*list outfall numbers*) |
|---|---|---|---|
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

| 1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC. | 2. AFFECTED OUTFALLS a. NO. | 2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE | 3. BRIEF DESCRIPTION OF PROJECT | 4. FINAL COMPLIANCE DATE a. REQUIRED | 4. FINAL COMPLIANCE DATE b. PROJECTED |
|---|---|---|---|---|---|
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☒ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)

CONTINUED FROM PAGE 2

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| 1. POLLUTANT | 2. SOURCE | 1. POLLUTANT | 2. SOURCE |
|---|---|---|---|
| Asbestos | Used in insulation, trace amounts may be washed down drains in plant areas during maintenance activities. | | |
| Strontium<br>Uranium<br>Vanadium<br>Zirconium | Trace elements occasionally present in coal. | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☑ YES (*list all such pollutants below*) ☐ NO (*go to Item VI-B*)

The following substances may be present in coal:
Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

See attachement 4 for Potential Discharges Not covered by Analysis.

CONTINUED FROM THE FRONT

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ YES (*identify the test(s) and describe their purposes below*) ☐ NO (*go to Section VIII*)

Outfall 001 From 2006 through 2009, 12 chronic toxicity tests were performed on the ash pond discharge as required by the current NPDES permit. All of the tests were recorded as "pass" and exhibited no toxicity at required testing concentrations.

## VIII. CONTRACT ANALYSIS INFORMATION

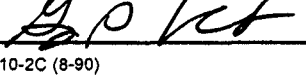
Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

| A. NAME | B. ADDRESS | C. TELEPHONE (*area code & no.*) | D. POLLUTANTS ANALYZED (*list*) |
|---|---|---|---|
| Pace Analytical Labs | 2225 Riverside Drive<br>Asheville, NC 28804 | (828) 254-7176 | Metals, TOC, BOD, Nutrients, TSS, COD, Flouride, Oil and Grease, cyanide, phenols, volatiles |
| Environmental Testing Solutions | PO Box 7565<br>Asheville, NC 28802 | (828) 350-9364 | Aquatic Toxicity |
| Applied Speciation and Consulting | 18804 Northcreek Parkway<br>Bothell, WA 98011 | (425) 483-3300 | Selenium Speciation |

## IX. 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.*

| A. NAME & OFFICIAL TITLE (*type or print*) | B. PHONE NO. (*area code & no.*) |
|---|---|
| Garry A. Whisnant, Plant Manager | (828) 687-5201 |
| C. SIGNATURE | D. DATE SIGNED |
|  | 6/10/10 |

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): NC0000396

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 001

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS | c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (*if available*) (2) MASS | d. NO. OF ANALYSES | 3. UNITS (*specify if blank*) a. CONCENTRATION | 3. UNITS b. MASS | 4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS | 4. INTAKE b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (*BOD*) | <2.0 | <71.4 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| b. Chemical Oxygen Demand (*COD*) | 50 | 1784.8 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| c. Total Organic Carbon (*TOC*) | 3.5 | 124.9 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| d. Total Suspended Solids (*TSS*) | 4.4 | 230.5 | N/A | N/A | 1.71 | 50.2 | 12 | mg/l | lb/day | | | |
| e. Ammonia (*as N*) | 6.5 | 232 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| f. Flow | VALUE 6.28 MGD | | VALUE 4.23 MGD | | VALUE 3.52 MGD | | 52 | MGD | N/A | VALUE | | |
| g. Temperature (*winter*) | VALUE 14.1 | | VALUE 12.2 | | VALUE 8.3 | | 22 | °C | | VALUE | | |
| h. Temperature (*summer*) | VALUE 26.6 | | VALUE 24.9 | | VALUE 19.2 | | 34 | °C | | VALUE | | |
| i. pH | MINIMUM 6.8 | MAXIMUM 7.9 | MINIMUM 7.3 | MAXIMUM 7.9 | | | 52 | STANDARD UNITS | | | | |

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (*if available*) | 2. MARK "X" a. BELIEVED PRESENT | 2. MARK "X" b. BELIEVED ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS | c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (*if available*) (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | 4. UNITS b. MASS | 5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS | 5. INTAKE b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | | | | | | | | | | | | |
| b. Chlorine, Total Residual | X | | | | | | | | | | | | | |
| c. Color | X | | | | | | | | | | | | | |
| d. Fecal Coliform | X | | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | X | | 1.4 | 41.1 | N/A | N/A | 0.97 | 28.5 | 4 | mg/l | lb/da | | | |
| f. Nitrate-Nitrite (*as N*) | X | | | | | | | | | | | | | |

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (*if available*) | 2. MARK "X" | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. BELIEVED PRESENT | b. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| g. Nitrogen, Total Organic (*as N*) | X | | | | | | | | | | | | | |
| h. Oil and Grease | X | | <5.0 | <146.8 | N/A | N/A | <5.0 | <146.8 | 13 | mg/l | lb/da | | | |
| i. Phosphorus (as P), Total (7723-14-0) | X | | <0.1 | <2.9 | N/A | N/A | <0.1 | <2.9 | 4 | mg/l | lb/da | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | X | | | | | | | | | | | | | |
| (2) Beta, Total | X | | | | | | | | | | | | | |
| (3) Radium, Total | | | | | | | | | | | | | | |
| (4) Radium 226, Total | | | | | | | | | | | | | | |
| k. Sulfate (*as $SO_4$*) (14808-79-8) | X | | | | | | | | | | | | | |
| l. Sulfide (*as S*) | X | | | | | | | | | | | | | |
| m. Sulfite (*as $SO_3$*) (14265-45-3) | X | | | | | | | | | | | | | |
| n. Surfactants | X | | | | | | | | | | | | | |
| o. Aluminum, Total (7429-90-5) | X | | | | | | | | | | | | | |
| p. Barium, Total (7440-39-3) | X | | | | | | | | | | | | | |
| q. Boron, Total (7440-42-8) | X | | | | | | | | | | | | | |
| r. Cobalt, Total (7440-48-4) | X | | | | | | | | | | | | | |
| s. Iron, Total (7439-89-6) | X | | | | | | | | | | | | | |
| t. Magnesium, Total (7439-95-4) | X | | | | | | | | | | | | | |
| u. Molybdenum, Total (7439-98-7) | X | | | | | | | | | | | | | |
| v. Manganese, Total (7439-96-5) | X | | | | | | | | | | | | | |
| w. Tin, Total (7440-31-5) | X | | | | | | | | | | | | | |
| x. Titanium, Total (7440-32-6) | X | | | | | | | | | | | | | |

| EPA I.D. NUMBER (*copy from Item 1 of Form 1*) | OUTFALL NUMBER |
|---|---|
| NC0000396 | 001 |

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCEN-TRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| METALS, CYANIDE, AND TOTAL PHENOLS | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | X | X | | 8.2 | 0.29 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 2M. Arsenic, Total (7440-38-2) | X | X | | .108 | 3.6 | N/A | N/A | 0.063 | 1.85 | 12 | mg/l | lb/day | | | |
| 3M. Beryllium, Total (7440-41-7) | X | X | | <0.001 | <0.03 | N/A | N/A | <0.001 | <0.03 | 4 | mg/l | lb/day | | | |
| 4M. Cadmium, Total (7440-43-9) | X | X | | <0.001 | <0.03 | N/A | N/A | <0.001 | <0.03 | 4 | mg/l | lb/day | | | |
| 5M. Chromium, Total (7440-47-3) | X | X | | 0.0051 | 0.15 | N/A | N/A | 0.003 | 0.09 | 4 | mg/l | lb/day | | | |
| 6M. Copper, Total (7440-50-8) | X | X | | 0.0126 | 0.37 | N/A | N/A | 0.005 | 0.15 | 4 | mg/l | lb/day | | | |
| 7M. Lead, Total (7439-92-1) | X | X | | <0.005 | <0.15 | N/A | N/A | <0.005 | <0.15 | 4 | mg/l | lb/day | | | |
| 8M. Mercury, Total (7439-97-6) | X | X | | 0.0564 | 0.0016 | 0.0416 | 0.0014 | 0.024 | .0007 | 52 | ug/l | lb/day | | | |
| 9M. Nickel, Total (7440-02-0) | X | X | | 0.0186 | 0.55 | N/A | N/A | 0.012 | 0.35 | 4 | mg/l | lb/day | | | |
| 10M. Selenium, Total (7782-49-2) | X | X | | 0.0794 | 2.33 | N/A | N/A | 0.061 | 1.79 | 12 | mg/l | lb/day | | | |
| 11M. Silver, Total (7440-22-4) | X | X | | <0.005 | <0.15 | N/A | N/A | <0.005 | <0.15 | 4 | mg/l | lb/day | | | |
| 12M. Thallium, Total (7440-28-0) | X | X | | <0.010 | <0.29 | N/A | N/A | <0.010 | <0.29 | 4 | mg/l | lb/day | | | |
| 13M. Zinc, Total (7440-66-6) | X | X | | 0.0194 | 0.57 | N/A | N/A | 0.011 | 0.32 | 4 | mg/l | lb/day | | | |
| 14M. Cyanide, Total (57-12-5) | X | X | | <0.005 | <0.15 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| 15M. Phenols, Total | X | X | | <0.01 | <0.29 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| DIOXIN | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6) | | | X | DESCRIBE RESULTS | | | | | | | | | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – VOLATILE COMPOUNDS | | | | | | | | | | | | | | | |
| 1V. Accrolein (107-02-8) | X | | X | <100 | <3.57 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 2V. Acrylonitrile (107-13-1) | X | | X | <100 | <3.57 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 3V. Benzene (71-43-2) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 4V. Bis (*Chloromethyl*) Ether (542-88-1) | | | | Testing | not | required | | | | | | | | | |
| 5V. Bromoform (75-25-2) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 7V. Chlorobenzene (108-90-7) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 8V. Chlorodibromomethane (124-48-1) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 9V. Chloroethane (75-00-3) | X | | X | <10.0 | <0.36 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | X | | X | <10.0 | <0.36 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 11V. Chloroform (67-66-3) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 12V. Dichlorobromomethane (75-27-4) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | | Testing | not | required | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 18V. 1,3-Dichloropropylene (542-75-6) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 19V. Ethylbenzene (100-41-4) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 20V. Methyl Bromide (74-83-9) | X | | X | <10.0 | <0.36 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 21V. Methyl Chloride (74-87-3) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |

CONTINUED FROM PAGE V-4

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 25V. Toluene (108-88-3) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 27V. 1,1,1-Trichloro-ethane (71-55-6) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 28V. 1,1,2-Trichloro-ethane (79-00-5) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 29V Trichloro-ethylene (79-01-6) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 30V. Trichloro-fluoromethane (75-69-4) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 31V. Vinyl Chloride (75-01-4) | X | | X | <5.0 | <0.18 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| GC/MS FRACTION – ACID COMPOUNDS | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 2A. 2,4-Dichloro-phenol (120-83-2) | X | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 3A. 2,4-Dimethyl-phenol (105-67-9) | X | | X | <10.0 | <0.4 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | X | | X | <20.0 | <0.8 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 5A. 2,4-Dinitro-phenol (51-28-5) | X | | X | <50.0 | <2.0 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | X | <50.0 | <2.0 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | X | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 9A. Pentachloro-phenol (87-86-5) | X | | X | <25.0 | <1.0 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 10A. Phenol (108-95-2) | X | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 11A. 2,4,6-Trichloro-phenol (88-05-2) | X | | X | <10.0 | <0.4 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |

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| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 3B. Anthracene (120-12-7) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 4B. Benzidine (92-87-5) | | | X | ~~ | Not | requird | per | 40 CFR | App D | ~~ | N/A | N/A | | | |
| 5B. Benzo (*a*) Anthracene (56-55-3) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 6B. Benzo (*a*) Pyrene (50-32-8) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 8B. Benzo (*ghi*) Perylene (191-24-2) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 9B. Benzo (*k*) Fluoranthene (207-08-9) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1) | | | X | <10.0 | <0.4 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1) | | | X | ~~ | Not | required | per | 40 CFR | App D | ~~ | N/A | N/A | | | |
| 13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 14B. 4-Bromophenyl Phenyl Ether (101-55-3) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 18B. Chrysene (218-01-9) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 19B. Dibenzo (*a,h*) Anthracene (53-70-3) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | X | ~~ | Not | required | per | 40 CFR | App D | ~~ | N/A | N/A | | | |
| 21B. 1,3-Di-chloro-benzene (541-73-1) | | | X | ~~ | Not | required | per | 40 CFR | App D | ~~ | N/A | N/A | | | |

CONTINUED FROM PAGE V-6

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*) | | | | | | | | | | | | | | | |
| 22B. 1,4-Dichlorobenzene (106-46-7) | | | X | -- | Not | required | per | 40 CFR | App D | -- | N/A | N/A | | | |
| 23B. 3,3-Dichlorobenzidine (91-94-1) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 27B. 2,4-Dinitrotoluene (121-14-2) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 30B. 1,2-Diphenylhydrazine (*as Azobenzene*) (122-66-7) | | | X | -- | Not | required | per | 40 CFR | App D | -- | N/A | N/A | | | |
| 31B. Fluoranthene (206-44-0) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 32B. Fluorene (86-73-7) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 33B. Hexachlorobenzene (118-74-1) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | X | <10.0 | <0.4 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 36B Hexachloroethane (67-72-1) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 38B. Isophorone (78-59-1) | | | X | <10.0 | <0.4 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 39B. Naphthalene (91-20-3) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 40B. Nitrobenzene (98-95-3) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 42B. N-Nitrosodi-N-Propylamine (621-64-7) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |

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| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*) | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | X | <10.0 | <0.4 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 44B. Phenanthrene (85-01-8) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 45B. Pyrene (129-00-0) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | X | <5.0 | <0.2 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | Not | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | required | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | | per 40CFR | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | | Pt 122 | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | Appendix | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | D | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Enosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | | | | | | | | | | | | | |

| EPA I.D. NUMBER (*copy from Item 1 of Form 1*) | OUTFALL NUMBER |
|---|---|
| NC0000396 | 001 |

CONTINUED FROM PAGE V-8

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – PESTICIDES (*continued*) | | | | | | | | | | | | | | | |
| 17P. Heptachlor Epoxide (1024-57-3) | | | | Not | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | required | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | per 40CFR | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | Pt. 122 | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | Appendix | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | D | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): NC0000396

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO.: 002 (once through cooling

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS | c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (*if available*) (2) MASS | d. NO. OF ANALYSES | 3. UNITS (*specify if blank*) a. CONCENTRATION | 3. UNITS b. MASS | 4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS | 4. INTAKE b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (*BOD*) | <2.0 | <3062 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| b. Chemical Oxygen Demand (*COD*) | <25.0 | <38280 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| c. Total Organic Carbon (*TOC*) | 3.8 | 5818 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| d. Total Suspended Solids (*TSS*) | <2.4 | <3675 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| e. Ammonia (*as N*) | 0.14 | 214.4 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/day | | | |
| f. Flow | VALUE 305.5 | | VALUE 305.5 | | VALUE 255.34 | | 52 | MGD | N/A | VALUE | | |
| g. Temperature (*winter*) | VALUE 34.5 | | VALUE 30.8 | | VALUE 29.7 | | 151 | °C | | VALUE | | |
| h. Temperature (*summer*) | VALUE 42.1 | | VALUE 40.6 | | VALUE 36.5 | | 214 | °C | | VALUE | | |
| i. pH | MINIMUM 6.7 | MAXIMUM 8.2 | MINIMUM 7.6 | MAXIMUM 8.2 | | | 52 | STANDARD UNITS | | | | |

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (*if available*) | 2. MARK "X" a. BELIEVED PRESENT | 2. MARK "X" b. BELIEVED ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS | c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (*if available*) (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | 4. UNITS b. MASS | 5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS | 5. INTAKE b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | | | | | | | | | | | | |
| b. Chlorine, Total Residual | X | | 110* | 168.4* | 87.5* | 222.9* | 74.2* | 157.8* | 60* | ug/l | | | | |
| c. Color | X | | | | | | | | | | | | | |
| d. Fecal Coliform | X | | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | X | | | | | | | | | | | | | |
| f. Nitrate-Nitrite (*as N*) | X | | | | | | | | | | | | | |



* TRC analyzed when added

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (*if available*) | 2. MARK "X" | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. BELIEVED PRESENT | b. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| g. Nitrogen, Total Organic (*as N*) | X | | | | | | | | | | | | | |
| h. Oil and Grease | X | | <5.0 | <7656 | N/A | N/A | N/A | N/A | 1 | mg/l | lb/da | | | |
| i. Phosphorus (as P), Total (7723-14-0) | X | | | | | | | | | | | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | X | | | | | | | | | | | | | |
| (2) Beta, Total | X | | | | | | | | | | | | | |
| (3) Radium, Total | | | | | | | | | | | | | | |
| (4) Radium 226, Total | | | | | | | | | | | | | | |
| k. Sulfate (*as $SO_4$*) (14808-79-8) | X | | | | | | | | | | | | | |
| l. Sulfide (*as S*) | X | | | | | | | | | | | | | |
| m. Sulfite (*as $SO_3$*) (14265-45-3) | X | | | | | | | | | | | | | |
| n. Surfactants | X | | | | | | | | | | | | | |
| o. Aluminum, Total (7429-90-5) | X | | | | | | | | | | | | | |
| p. Barium, Total (7440-39-3) | X | | | | | | | | | | | | | |
| q. Boron, Total (7440-42-8) | X | | | | | | | | | | | | | |
| r. Cobalt, Total (7440-48-4) | X | | | | | | | | | | | | | |
| s. Iron, Total (7439-89-6) | X | | 82.5 | <126 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/da | | | |
| t. Magnesium, Total (7439-95-4) | X | | | | | | | | | | | | | |
| u. Molybdenum, Total (7439-98-7) | X | | | | | | | | | | | | | |
| v. Manganese, Total (7439-96-5) | X | | | | | | | | | | | | | |
| w. Tin, Total (7440-31-5) | X | | | | | | | | | | | | | |
| x. Titanium, Total (7440-32-6) | X | | | | | | | | | | | | | |

| EPA I.D. NUMBER (*copy from Item 1 of Form 1*) | OUTFALL NUMBER |
|---|---|
| NC0000396 | 002 (once through) |

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| METALS, CYANIDE, AND TOTAL PHENOLS | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | X | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | X | | | | | | | | | | | | | |
| 3M. Beryllium, Total (7440-41-7) | | X | | | | | | | | | | | | | |
| 4M. Cadmium, Total (7440-43-9) | | X | | | | | | | | | | | | | |
| 5M. Chromium, Total (7440-47-3) | | X | | | | | | | | | | | | | |
| 6M. Copper, Total (7440-50-8) | | X | | <5.0 | <7.65 | N/A | N/A | N/A | N/A | 1 | ug/l | lb/day | | | |
| 7M. Lead, Total (7439-92-1) | | X | | | | | | | | | | | | | |
| 8M. Mercury, Total (7439-97-6) | | X | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | X | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | X | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-22-4) | | X | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | X | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | X | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | X | | | | | | | | | | | | | |
| 15M. Phenols, Total | | X | | | | | | | | | | | | | |
| DIOXIN | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6) | | | X | DESCRIBE RESULTS | | | | | | | | | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – VOLATILE COMPOUNDS | | | | | | | | | | | | | | | |
| 1V. Accrolein (107-02-8) | | | X | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 4V. Bis (*Chloromethyl*) Ether (542-88-1) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chlorobenzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | X | | | | | | | | | | | | |
| 9V. Chloroethane (75-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichlorobromomethane (75-27-4) | | | X | | | | | | | | | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,3-Dichloropropylene (542-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethylbenzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |

CONTINUED FROM PAGE V-4

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V Trichloroethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | | | X | | | | | | | | | | | | |
| 31V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |
| GC/MS FRACTION – ACID COMPOUNDS | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-86-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-95-2) | | | X | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-05-2) | | | X | | | | | | | | | | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | Not | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | required | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | per 40CFR | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | PT 122 | | | | | | | | | | | |
| 5B. Benzo (*a*) Anthracene (56-55-3) | | | | Appendix | | | | | | | | | | | |
| 6B. Benzo (*a*) Pyrene (50-32-8) | | | | D | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo (*ghi*) Perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo (*k*) Fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4) | | | | | | | | | | | | | | | |
| 12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1) | | | | | | | | | | | | | | | |
| 13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7) | | | | | | | | | | | | | | | |
| 14B. 4-Bromophenyl Phenyl Ether (101-55-3) | | | | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 19B. Dibenzo (*a,h*) Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 21B. 1,3-Di-chloro-benzene (541-73-1) | | | | | | | | | | | | | | | |

CONTINUED FROM PAGE V-6

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*) | | | | | | | | | | | | | | | |
| 22B. 1,4-Dichlorobenzene (106-46-7) | | | | Not | | | | | | | | | | | |
| 23B. 3,3-Dichlorobenzidine (91-94-1) | | | | required | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | | per 40CFR | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131 -11-3) | | | | pt 122 | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | | Appendix | | | | | | | | | | | |
| 27B. 2,4-Dinitrotoluene (121-14-2) | | | | D | | | | | | | | | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | | | | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine (*as Azobenzene*) (122-66-7) | | | | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-74-1) | | | | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | | | | | | | | | | | | | |
| 36B Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 42B. N-Nitrosodi-N-Propylamine (621-64-7) | | | | | | | | | | | | | | | |

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCEN-TRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*) | | | | | | | | | | | | | | | |
| 43B. N-Nitro-sodiphenylamine (86-30-6) | | | | Not | | | | | | | | | | | |
| 44B. Phenanthrene (85-01-8) | | | | required | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | | | | per 40CFR | | | | | | | | | | | |
| 46B. 1,2,4-Tri-chlorobenzene (120-82-1) | | | | Appendix | D | | | | | | | | | | |
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | Not | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | required | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | | per 40CFR | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | | Pt 122 | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | Appendix | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | D | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Enosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | | | | | | | | | | | | | |

| EPA I.D. NUMBER (*copy from Item 1 of Form 1*) | OUTFALL NUMBER |
|---|---|
| NC0000396 | 002 (once through) |

CONTINUED FROM PAGE V-8

| 1. POLLUTANT AND CAS NUMBER (*if available*) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (*optional*) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (*if available*) | | c. LONG TERM AVRG. VALUE (*if available*) | | d. NO. OF ANALYSES | a. CONCEN-TRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – PESTICIDES (*continued*) | | | | | | | | | | | | | | | |
| 17P. Heptachlor Epoxide (1024-57-3) | | | | Not | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | required | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | per 40CFR | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | Pt. 122 | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | Appendix | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | D | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
NC0000396

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM 2F NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

# Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

**Paperwork Reduction Act Notice**

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

## I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| A. Outfall Number (*list*) | B. Latitude | | | C. Longitude | | | D. Receiving Water (*name*) |
|---|---|---|---|---|---|---|---|
| SW-1 | 35 | 28 | 01 | 82 | 32 | 13 | Lake Julian |
| SW-2 | 35 | 27 | 51 | 82 | 32 | 05 | Lake Julian |
| SW-3 | 35 | 27 | 55 | 82 | 32 | 06 | Lake Julian |
| SW-4 | 35 | 28 | 39 | 82 | 32 | 46 | Lake Julian |
| SW-5 | 35 | 28 | 29 | 82 | 32 | 51 | Unnamed tributary to Powell Creek |
| SW-6 | 35 | 28 | 23 | 82 | 32 | 45 | Lake Julian |
| | | | | | | | |
| | | | | | | | |
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## II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

| 1. Identification of Conditions, Agreements, Etc. | 2. Affected Outfalls | | 3. Brief Description of Project | 4. Final Compliance Date | |
|---|---|---|---|---|---|
| | number | source of discharge | | a. req. | b. proj. |
| N/A | | | | | |
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B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

## III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continued from the Front

## IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

| Outfall Number | Area of Impervious Surface *(provide units)* | Total Area Drained *(provide units)* | Outfall Number | Area of Impervious Surface *(provide units)* | Total Area Drained *(provide units)* |
|---|---|---|---|---|---|
| SW-1 | 0.34 acres | 3.69 ares | SW-4 | 0.09 acres | 5.5 acres |
| SW-2 | 0.13 acres | 0.38 acres | SW-5 | 0.09 acres | 4.0 acres |
| SW-3 | 0.84 acres | 9.06 acres | SW-6 | 0.18 acres | 7.6 acres |

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

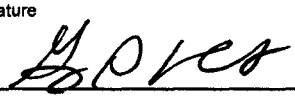
See attachment 6

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

| Outfall Number | Treatment | List Codes from Table 2F-1 |
|---|---|---|
| | See attachment 7 | |

## V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

| Name and Official Title *(type or print)* | Signature | Date Signed |
|---|---|---|
| Laurie Moorhead, Env. Specialist |  | 6/10/12 |

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

On an annual basis, the Asheville Plant Environmental Specialist conducts a visual inspection of all stormwater outfalls during an extended period of dry weather. This visual inspection serves to ensure that there are no unpermitted discharges from the permitted stormwater outfalls. Certification statements are signed, dated and kept onsite behind Tab 5 Annual Certification Page of the SWPPP.

Dates for previous certifications include: April 16, 2010, April 23, 2009

## VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

There have been no leaks of spills of toxic or hazardous pollutants on the old or new access roads in the past three years.

EPA ID Number *(copy from Item 1 of Form 1)*
NC0000396

## VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☑ Yes *(list all such pollutants below)* ☐ No *(go to Section IX)*

The following elements could be present in coal and/or oil:

Antimony
Arsenic
Beryllium
Cadmiun
Chromium
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

## VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes *(list all such pollutants below)* ☑ No *(go to Section IX)*

## IX. Contract Analysis Information

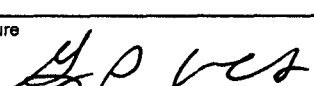
Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☑ Yes *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☐ No *(go to Section X)*

| A. Name | B. Address | C. Area Code & Phone No. | D. Pollutants Analyzed |
|---|---|---|---|
| Pace Analytical Services, Inc. | 2225 Riverside Drive<br>Asheville, NC 28804 | (828)254-7176 | All |

## X. 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.*

| A. Name & Official Title *(Type Or Print)* | B. Area Code and Phone No. |
|---|---|
| Garry A. Whisnant, Plant Manager | (828) 687-5201 |
| C. Signature | D. Date Signed |
|  | 6/10/10 |

## VII. Discharge information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| Pollutant and CAS Number *(if available)* | Maximum Values *(include units)* | | Average Values *(include units)* | | Number of Storm Events Sampled | Sources of Pollutants |
|---|---|---|---|---|---|---|
| | Grab Sample Taken During First 20 Minutes | Flow-Weighted Composite | Grab Sample Taken During First 20 Minutes | Flow-Weighted Composite | | |
| Oil and Grease | <5.0 mg/l | N/A | | | 1 | Below detection level |
| Biological Oxygen Demand (BOD5) | 4.6 mg/l | 2.0 mg/l | | | 1 | Decaying vegetation |
| Chemical Oxygen Demand (COD) | 432 mg/l | 64.0 mg/l | | | 1 | Decaying vegetation |
| Total Suspended Solids (TSS) | 426 mg/l | 92.7 mg/l | | | 1 | Erosion, Settled dust and debris |
| Total Nitrogen | 4.9 mg/l | 2.1 mg/l | | | 1 | Fertilizer |
| Total Phosphorus | 0.79 mg/l | 0.18 mg/l | | | 1 | Fertilizer |
| pH | Minimum 6.7 | Maximum 6.7 | Minimum | Maximum | 1 | |

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

| Pollutant and CAS Number *(if available)* | Maximum Values *(include units)* | | Average Values *(include units)* | | Number of Storm Events Sampled | Sources of Pollutants |
|---|---|---|---|---|---|---|
| | Grab Sample Taken During First 20 Minutes | Flow-Weighted Composite | Grab Sample Taken During First 20 Minutes | Flow-Weighted Composite | | |
| Total Copper | 68.5 ug/l | 11.8 ug/l | | | 1 | |
| Total Iron | 38300 ug/l | 7230 ug/l | | | 1 | |
| Total Arsenic | 46.4 ug/l | 13.6 ug/l | | | 1 | |
| Total Selenium | <10 ug/l | <10 ug/l | | | 1 | |
| Total Silver | <5.0 ug/l | <5.0 ug/l | | | 1 | |
| Total Thallium | <10 ug/l | <10 ug/l | | | 1 | |
| TKN | 4.5 mg/l | 1.9 mg/l | | | 1 | |
| Nitrate-Nitrite | 0.40 mg/l | 0.15 mg/l | | | 1 | |
| Total Mercury | 0.33 ug/l | <0.2 ug/l | | | 1 | |
| Total Beryllium | 3.4 ug/l | <0.1 ug/l | | | 1 | |
| Total Cadmium | <1.0 ug/l | <1.0 ug/l | | | 1 | |
| Total Chlorides | 69.4 mg/l | 31.3 mg/l | | | 1 | |
| Total Chromium | 43.4 ug/l | 7.8 ug/l | | | 1 | |
| Total Flouride | <0.10 mg/l | <0.10 mg/l | | | 1 | |
| Total Lead | 45.8 ug/l | 7.3 ug/l | | | 1 | |
| Tot. Managanese | 1010 ug/l | 125 ug/l | | | 1 | |
| Total Nickel | 32.2 ug/l | 5.2 ug/l | | | 1 | |
| Total Zinc | 325 ug/l | 54.1 ug/l | | | 1 | |
| TRC* | 250 ug/l* | | | | 1 | * Possibly analytical inteference |
| | | | | | | from naturally occurring manganese |
| | | | | | | and/or turbidity in the sample. |
| | | | | | | Result from TRC grab sample at end |
| sampled outfall | SW-3 only due | to representative | outfall sta | tus | | of SW sampling event was 20 ug/l. |
| | | | | | | No known source. |
| | | | | | | |
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Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

| Pollutant and CAS Number *(if available)* | Maximum Values *(include units)* | | Average Values *(include units)* | | Number of Storm Events Sampled | Sources of Pollutants |
|---|---|---|---|---|---|---|
| | Grab Sample Taken During First 20 Minutes | Flow-Weighted Composite | Grab Sample Taken During First 20 Minutes | Flow-Weighted Composite | | |
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Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

| 1. Date of Storm Event | 2. Duration of Storm Event *(in minutes)* | 3. Total rainfall during storm event *(in inches)* | 4. Number of hours between beginning of storm measured and end of previous measurable rain event | 5. Maximum flow rate during rain event *(gallons/minute or specify units)* | 6. Total flow from rain event *(gallons or specify units)* |
|---|---|---|---|---|---|
| 3/11/2010 | 210 minutes | 0.39 on 3/11/2010 (during sampling).<br><br>Precipitation over the next four days totaled 1.81 inches. | 168 hours | 20.6 GPM | 9,548 gallons from outfall SW-3 during sampling event. |

7. Provide a description of the method of flow measurement or estimate.

A container with a known volume and a stopwatch was used to measure flow from SW outfall pipe.

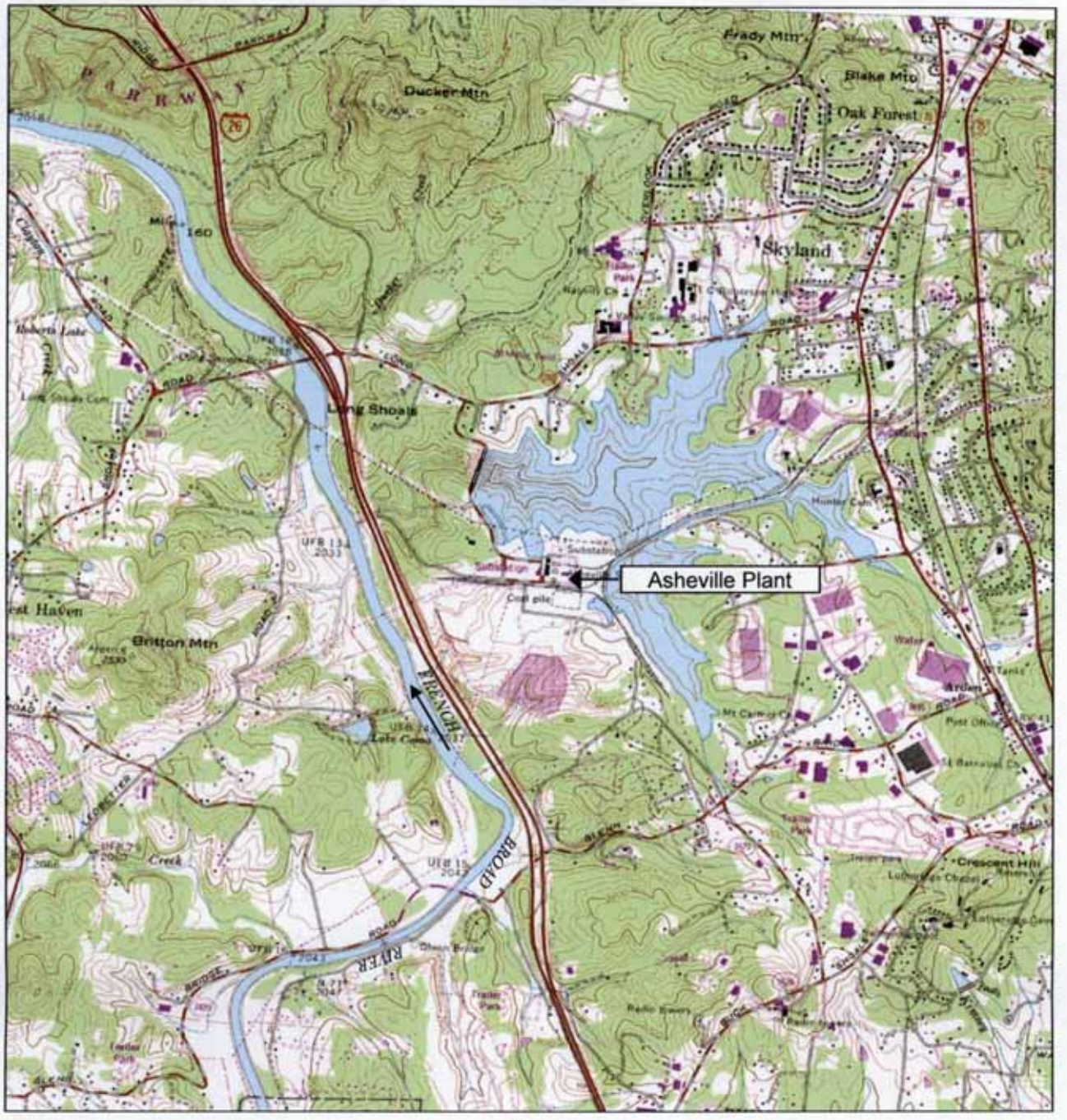
**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

Asheville Steam Electric Plant

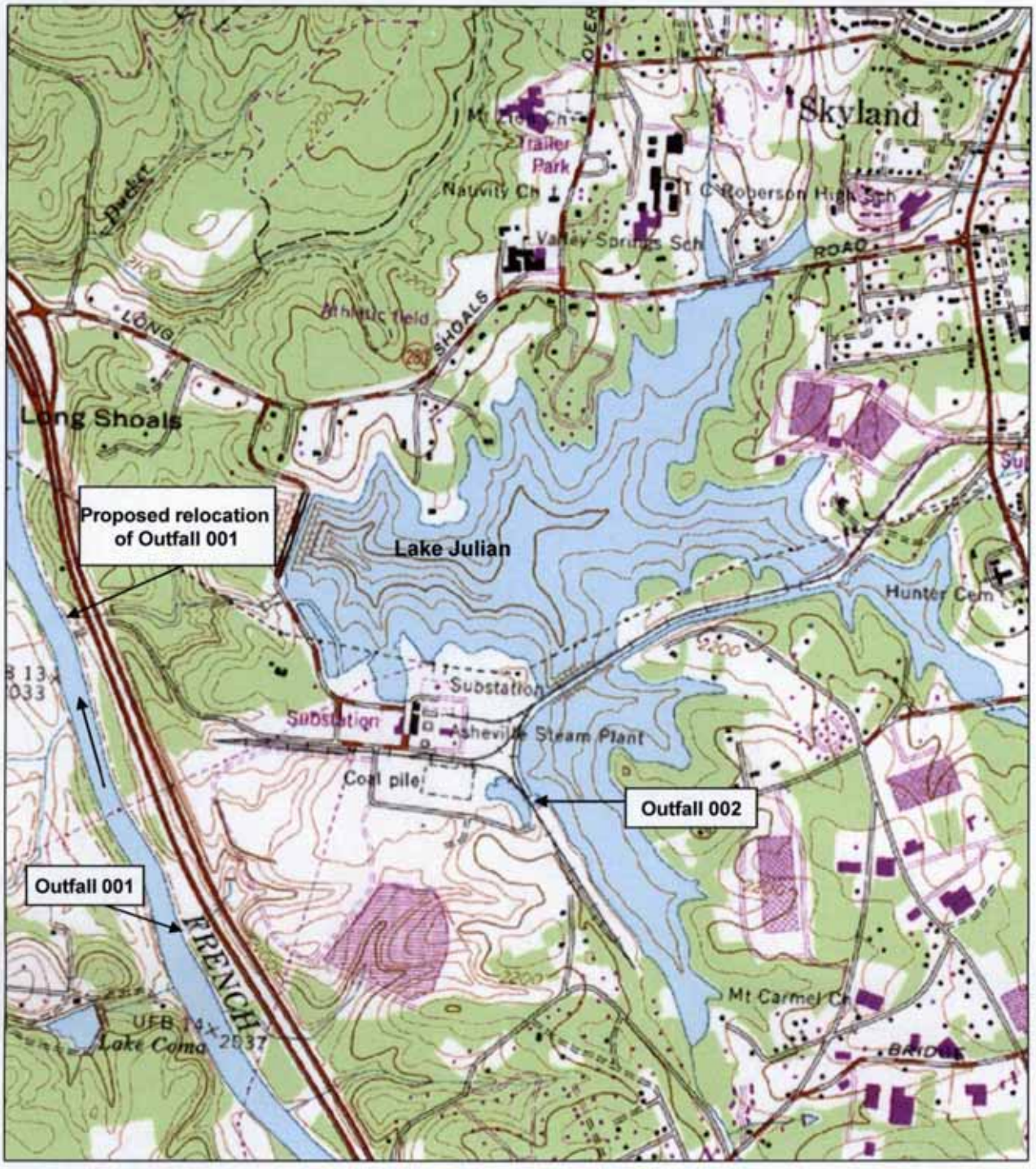
National Pollutant Discharge Elimination System Permit Number NC0000396

**Attachment 1**

Form 1 – Item XI - Map




**Attachment 1 – Form 1 – Item XI – Map**
Carolina Power & Light Company
Asheville Steam Electric Plant
Buncombe County
Page 1 of 2 June 2010




**Attachment 1 – Form 1 – Item XI – Map**
Carolina Power & Light Company
Asheville Steam Electric Plant
Buncombe County
Page 2 of 2 June 2010

**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

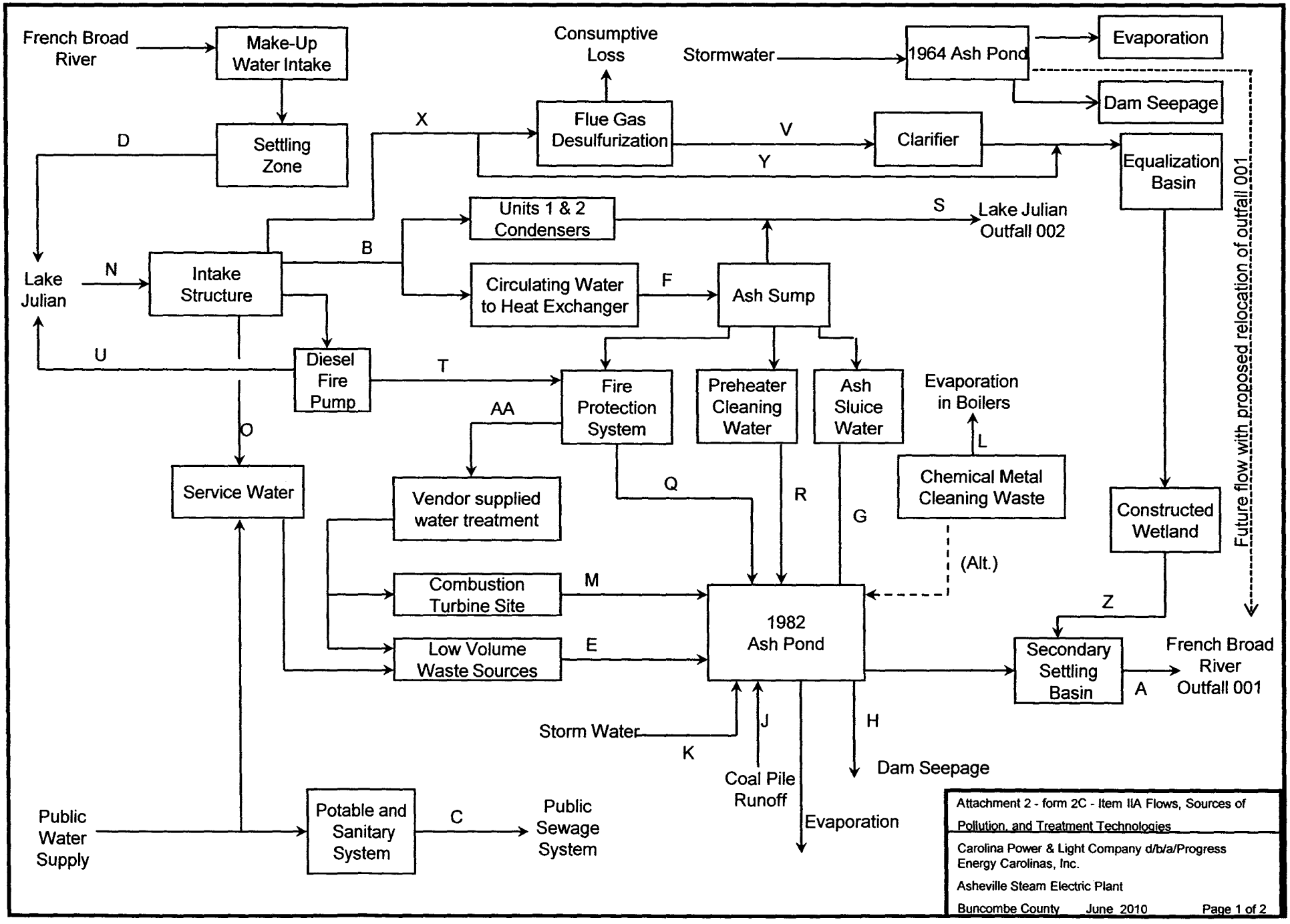
Asheville Steam Electric Plant

National Pollutant Discharge Elimination System Permit Number NC0000396

**Attachment 2**

Form 2C Item II –A

Line drawing for Flows, Sources of Pollution and Treatment Technologies


French Broad River
Make-Up Water Intake
Consumptive Loss
Stormwater
1964 Ash Pond
Evaporation
Dam Seepage
Flue Gas Desulfurization
Clarifier
Equalization Basin
Settling Zone
D
X
V
Y
Units 1 & 2 Condensers
S
Lake Julian Outfall 002
Lake Julian
N
Intake Structure
B
Circulating Water to Heat Exchanger
F
Ash Sump
Future flow with proposed relocation of outfall 001
U
Diesel Fire Pump
T
Fire Protection System
Preheater Cleaning Water
Ash Sluice Water
Evaporation in Boilers
L
AA
O
Service Water
Vendor supplied water treatment
Q
R
G
Chemical Metal Cleaning Waste
Constructed Wetland
(Alt.)
Combustion Turbine Site
M
Z
1982 Ash Pond
Low Volume Waste Sources
E
Secondary Settling Basin
A
French Broad River Outfall 001
Storm Water
K
J
H
Coal Pile Runoff
Dam Seepage
Evaporation
Public Water Supply
Potable and Sanitary System
C
Public Sewage System
Attachment 2 - form 2C - Item IIA Flows, Sources of Pollution, and Treatment Technologies
Carolina Power & Light Company d/b/a/Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
Buncombe County June 2010 Page 1 of 2

## Attachment 2
## Form 2C - Item II-A Flow, Sources of Pollution, and Treatment Technologies

| Stream | Name | Average Flow | Comments |
|---|---|---|---|
| A | Ash Pond Discharge | 3.52 MGD | Outfall 001 |
| B | Intake to Once-through Cooling & Circulating Water to Heat Exchangers | 255.1MGD | |
| C | Plant Potable and Sanitary Uses | 0.002 MGD | From POTW |
| D | Makeup to Lake from River | 2.68 MGD | 2009 Average |
| E | Low Volume Wastes<br>• Ash Hopper Seals<br>• Sandbed Filter Backwash<br>• Boiler Blowdown<br>• Truck Wash<br>• Water purification process waste streams | <br>0.05 MGD<br>2600 Gal/event<br>0.006 MGD<br>Variable<br>variable | <br><br>Rare Usage<br>Startup - Estimated |
| F | Circulating Water from Heat Exchangers | 19.3 MGD | Estimated |
| G | Ash Sluice Water | 3.03 MGD | Estimated |
| H | Dam Seepage | 0.09 MGD | Calculated |
| I | City Water Supply to Boiler Makeup | 0 MGD | Rare Usage |
| J | Coal Pile Runoff | 0.01 MGD | Based on Average Annual Rainfall of 47" and 50 % Runoff |
| K | Storm Water | 0.07 MGD | Estimated |
| L | Chemical Metal Cleaning Wastes | 0 - 90,000 Gallons (0 gallons anticipated) | Normal Practice is Evaporation |
| M | Water From Combustion Turbine Facility Operation (Blade wash activities) | 0 - 0.02 MGD | Intermittent |
| N | From Lake to Intake | 256.59 MGD | Estimated |
| O | Intake to Service Water | 0.05 MGD | Estimated |
| Q | Fire Protection Water | 0.010 MGD | Estimated |
| R | Air Preheater Cleaning | 10,000 gallons/event | Estimated |
| S | Discharge to Lake Julian | 255.1 MGD | |
| T | Emergency Fire Protection Water | 0 | Used for fire fighting<br>Outfall 002 -Calculated |
| U | Diesel Fire Pump to Lake Julian | 0.128 MG/week | Estimate - pump testing |
| V | Flue Gas Desulfurization Blowdown | 0.086 MGD | Calculated |
| X | Intake to FGD system | 01.08 MGD | |
| Y | Chloride Dilution Water | 0.35 MGD | |
| Z | Constructed Wetland Discharge | 0.376 MGD | Outfall 005 |
| AA | Makeup water supply | 22 Million gallons/year | Calculated |

**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

Asheville Steam Electric Plant

National Pollutant Discharge Elimination System Permit Number NC0000396

**Attachment 3**

Form 2C – Item II-B

Description of Flows, Sources of Pollution and Treatment Technologies

## Attachment 3

### Form 2C - Item II-B Flow, Sources of Pollution, and Treatment Technologies

The Asheville Steam Electric Plant is located in Arden, North Carolina south of Asheville, North Carolina. The Asheville Steam Electric Plant is a coal-fired, steam cycle electric generating plant with two generating units. Two Internal Combustion (IC) Turbines are also located on the plant site. The plant has a 320-acre cooling lake (Lake Julian) on the east side of the French Broad River in Buncombe County, North Carolina.

Chemical constituents contained in the discharges from this plant will, in part be representative of the naturally occurring chemical quality of the intake water and will also have chemical constituents of such quality and quantity associated with similar discharges for fossil generating facilities of this size, type and in this geographical location. Either all or part of the elements listed on the Periodic Table, either singularly or in any combination, may from time to time be contained in the discharge.

### Outfall 001 - Discharge from Ash Pond to French Broad River

The Plant's ash pond (hereinafter referred to as the 1982 ash pond), is located east of the French Broad River, south of the plant and discharges into the French Broad River. The ash pond receives ash sluice water, various low volume wastes, coal pile runoff, limestone pile runoff, gypsum pile runoff, air pre-heater cleaning water, fire protection system drainage, chemical metal cleaning wastes (potentially), storm water and other waters from the Combustion Turbine Facility on the Plant's site. Wastewater from the plant's truck wash and weigh stations also are directed to the plant's 1982 Ash Pond. Accumulated water within the boundaries of the old ash pond (hereinafter referred to as the 1964 ash pond) may also from time to time be transferred to the 1982 pond. The plant will also be considering installation of a reverse osmosis system to treat water for plant process uses. Reject water from this plant process system will be sent to the ash pond. The pond provides treatment by sedimentation and neutralization to the above-referenced individual waste streams. Water leaves the 1982 ash pond via a standpipe with skimmer and flows by pipe and lined ditch to a secondary basin, where it is discharged by overflow to a ditch that coveys it to the French Broad River. Toe

drains from both the 1982 pond and the 1964 pond drain to the French Broad River. Detailed descriptions of the individual waste streams are below.

Ash Sluice Water

Fly ash and bottom ash from both units are hydraulically conveyed by an ash sluice pipeline to the ash pond. As needed, alum is added to the ash sluice influent to aid settling. A Selective Catalytic Reduction system (SCR) is operated on both Unit 1 and Unit 2 for NOx emissions control. Urea is injected to reduce NOx emissions. A byproduct of this process is an "ammonia slip" which will be carried to the 1982 ash pond via ash sluice water. As necessary, a system to mitigate SO3 emissions may also inject additional ammonia into the combustion process. This mitigation system has not been needed to date but may become necessary as fuel sources change. Various boiler sediments and ash accumulations collected during maintenance activities may also be transported to the 1982 ash pond. The ash pond discharge flows into the secondary settling pond where it combines with the FGD treated wastewater prior to discharging to the French Broad River. Progress Energy plans to relocate this secondary settling pond and discharge point during the term of this permit to facilitate modifications designed to enhance the 1964 ash pond dam's safety factor.

Coal Pile Runoff

Storm water runoff from the coal pile is collected in drainage ditches that surround the coal pile. The drainage ditches are routed to the 1982 ash pond for treatment. During maintenance activities, sludges removed from catch basins, sumps, etc. may be transported to either the 1982 ash pond or the 1964 ash pond for disposal.

Limestone and Gypsum Piles Runoff

Storm water runoff from the limestone and gypsum piles is collected in drainage ditches which are routed to the 1982 ash pond for treatment. During maintenance activities, sludges removed from catch basins, sumps, etc. may be transported to the 1964 ash pond and/or the 1982 ash pond for disposal.

Storm Water

Storm water runoff from the plant area, parking lots, combustion turbine area, oil storage and handling facility and the plant's substations is routed to the ash ponds for treatment. During

maintenance activities, sludges removed from catch basins, sumps, etc. may be transported to the 1964 ash pond and/or the 1982 ash pond for disposal.

Low Volume Wastes

Boiler water make up is withdrawn from Lake Julian and purified utilizing vendor supplied equipment. Boiler water is treated with ammonia, hydrazine, and sodium hydroxide. Boiler blowdown and drainage is sent to the ash pond and may contain small quantities of the chemicals. A new Reverse Osmosis system or alum coagulation/filtration service will be used in conjunction with the vendor supplied equipment to provide water for various plant processes. The reject stream from the Reverse osmosis unit will be sent to the 1982 ash pond. .Some molybdate waste from the closed cooling water system is created through valve leakage and maintenance activities and is discharged to the 1982 ash pond. A furnace ash hopper seal is maintained by using plant service water. A standard operation water level is maintained in a seal trough for the ash hopper seal. Overflow from this trough is discharged to the 1982 ash pond. A sodium hydroxide solution is fed into this flow stream as necessary for ash pond pH adjustment. Sulfuric acid is fed to the ash sluice water as necessary for 1982 ash pond pH adjustment. Coal dust suppression is achieved by spraying a proprietary chemical on coal at different stages of coal use. Small amounts of excess dust suppression chemical have the potential to be discharged to the 1982 ash pond via plant drains or coal pile runoff. Small amounts of urea waste from bulk urea unloading operations are discharged to the 1982 ash pond. All plant area floor drains are routed to the 1982 ash pond and include equipment drainage and wash down along with rainfall runoff. During maintenance activities sludges removed from catch basins, sumps, etc. may be transported to the 1982 ash pond and/or the 1964 ash pond for disposal.

In many cases, added chemicals are consumed or chemically altered during the plant processes. Only trace amounts might be recoverable in water entering the 1982 ash pond. Detectable levels of these chemicals would not be expected to occur in ash pond discharges.

Flue Gas Desulfurization Blowdown (Low Volume Waste)

The Flue Gas Desulfurization (FGD) system directs flue gas into an absorber where a limestone (calcium carbonate) slurry is sprayed. Sulfur dioxide in the flue gas reacts with the limestone to produce calcium sulfate (gypsum). This system reclaims any unreacted limestone slurry to be

reused in the absorber. A small blowdown stream is used to maintain the chloride concentration in the reaction tank. The blowdown stream is passed through a clarifier to remove solids and the chloride concentration in the waste stream is diluted using water from Lake Julian. Chemicals are used to adjust pH and to aid solids removal in the clarifier. A constructed wetland is used to remove metals, mercury and selenium specifically, and the treated wastewater is discharged into the secondary settling pond.

Air Preheater Cleaning (Low Volume Waste)

The air preheater will be water washed once per year or more frequently as needed. The wastewater from this activity will be discharged to the 1982 ash pond.

Chemical Metal Cleaning Wastes

The boilers are chemically cleaned every five-to-eight years using Tetraammonia ethylene diamine tetraaccetic acid (EDTA) solution. This cleaning solution and its rinses are stored on site for disposal by evaporation in an operating unit's furnace. Typical cleanings would result in a waste of approximately 80,000 gallons. Should evaporation not be used, the wastewater can be treated by neutralization and precipitation prior to being conveyed to the 1964 ash pond, or to the 1982 ash pond, or other means of disposal. Cleaning of other heat exchanger surfaces may produce 5,000-10,000 gallons of wastewater every three-to-five years.

Other Wastes

Operation of the combustion turbine (CT) generation facility may produce turbine blade wash water, inlet filter cooling water, various condensate waters, and water from equipment and tank drains. These wastewaters will be collected in the storm water collection system of the CT site and routed to the 1982 ash pond. During maintenance activities, sludges removed from catch basins, sumps, etc. may be transported to the 1964 ash pond and/or the 1982 ash pond for disposal.

Plant Potable and Sanitary System

The supply of water for plant potable and sanitary use is obtained from the Asheville/Buncombe Water Authority system and waste from this system is discharged to the Metropolitan Sewage District System.

Herbicide and Pesticide Usage in the Treatment System Ponds

Herbicides may be used as needed to control nuisance aquatic vegetation. These herbicides are applied by licensed applicators, or persons under the immediate supervision of a licensed applicator, in accordance with the manufacturer's instructions. Pesticides may be used as needed to perform biological assessments. These Pesticides are applied by licensed applicators, or persons under the immediate supervision of a licensed applicator, in accordance with the manufacturer's instructions.

230 KV Substation Storm Water

Storm water runoff from the substation located adjacent to the plant is conveyed to the 1964 ash pond. This water may be transferred to the 1982 ash pond as needed to maintain appropriate water levels in the 1964 ash pond.

**Outfall 002 - Discharge to Lake Julian**

Once-Through Cooling Water

This flow provides condenser cooling water for the generating units 1 and 2. Maximum condenser flows for units 1 and 2 are 150 MGD and 156 MGD, respectively.

Once-through cooling water is used to supply non-contact cooling water for the component closed cooling water system. The component closed cooling water system flows combine with unit 1 and 2 condenser flows prior to discharge to Lake Julian. Maximum component closed cooling water system flows for unit 1 and 2 are 9.1 MGD and 10.2 MGD, respectively. Discharge flow to Lake Julian is calculated at the intake to units 1 and 2 condensers and to the circulating water to the heat exchanger. The discharge of water from the heat exchangers is routed to an ash sump. The majority of this water is further routed to the discharge of units 1 and 2 condensers. Less than one percent of the flow to the ash sump is used to supply ash sluice water, preheater cleaning water, and fire protection water.

Control of biological fouling on heat-exchanger surfaces is accomplished by addition of sodium hypochlorite as required, which is usually less that 2 hours per day per unit, with a net total residual chlorine of less than 0.2 ppm discharged during that period. Cooling is accomplished by evaporation from the surface of Lake Julian and mixing and convection with lake waters. Make up for Lake Julian is from the French Broad River, natural runoff and creek flows. Water

is pumped from the French Broad River during dry periods to supplement the flow. Although discharge from Lake Julian to the river is extremely rare, any occurrence would be during periods of heavy rainfall.

Herbicide and Pesticide Usage in the Treatment System Ponds

Herbicides may be used as needed to control nuisance aquatic vegetation. These herbicides are applied by licensed applicators, or persons under the immediate supervision of a licensed applicator, in accordance with the manufacturer's instructions. Pesticides may be used as needed to perform biological assessments. These Pesticides are applied by licensed applicators, or persons under the immediate supervision of a licensed applicator, in accordance with the manufacturer's instructions.

**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

Asheville Steam Electric Plant

National Pollutant Discharge Elimination System Permit Number NC0000396

**Attachment 4**

Form 2C – Item VI

Potential Discharges Not Covered by Analysis

## Attachment 4

## Form 2C - Item VI - Potential Discharges Not Covered By Analysis

| Chemical | Estimated Quantity Used (per year) | Frequency | Purpose |
|---|---|---|---|
| Hydrazine (35%) | 1840 lb./yr. | Continuous | Oxygen scavenger in boiler |
| Ammonium hydroxide | 2730 lb./yr. | Continuous | pH control of boiler water |
| Sodium hydroxide (25 %) | 141,139 lb./yr | Continuous | pH control of ash pond |
| Sodium hydroxide (50%) | 30 gallons | As required | pH control of boiler water |
| Sodium hypochlorite (15%) | 91,072 lb./yr. | As required | Control of biological fouling on heat exchangers |
| Sodium molybdate | 100 pounds | As required | Corrosion control in closed cooling water system |
| Tetraammonia EDTA (38%) | 35,000 pounds | Every 5 to 8 years | Boiler cleaning |
| Urea (50%) | 7365 tons/yr. | Continuous during high ozone months | NOx control |
| Sulfuric acid (93%) | Variable | As needed | pH control pf ash pond |
| BetzDearborn Dustreat DC9136 | 11,400 pounds - estimated | As required | Coal dust suppression - proprietary chemical |
| Fyrewash (detergent) | 200 gallons | As needed | Combustion turbine blade washing |
| Detergents/cleaning agents | Variable | As needed | Housekeeping |
| Limestone (Calcium carbonate) | 21,944 tons/yr. | Continuous | Flue Gas Desulfurization |
| Polymer (high weight, anionic, emulsion-type) | 3255 lb./yr. | Continuous | Solids removal – FGD wastewater |
| Coagulant (Ferric chloride – 41%) | 3060 lb./yr. | Continuous | Solids removal – FGD wastewater |
| Sodium Hydroxide (25%) | 17600 lb./yr. | Continuous | pH adjustment – FGD wastewater |
| Hydrochloric Acid (30%) | 400 gallons - estimated | Continuous | pH adjustment – FGD wastewater |
| Magnesium Hydroxide | Variable | Continuous | Applied to coal for slag control |
| Aluminum Sulfate 25%-50% (Alum) | variable | As required | Water treatment processes, TSS control |

| | | | |
|---|---|---|---|
| Sumachlor 50 | | As needed | Coagulant for water treatment filter |
| MIT7602 (Organic Polymer) | | As needed | R.O. Anti-scalant |
| 50% Caustic | Variable for R.O. pH adjustment<br><br>1000 gallons for R.O. cleaning per event | As needed for pH adjustment<br><br>Periodic Typically 4/yr for R.O. cleaning | R.O. pH adjustment<br><br>and<br><br>R.O. cleaning |
| Hydrocloric Acid | 1000 gallons/event | Periodic Typically 4/yr | R.O. membrane cleaning |
| Citric acid | 1000 gallons/event | Periodic Typically 4/yr | R.O. membrane cleaning |
| Trilon B (EDTA) | 1000 gallons/event | Periodic Typically 4/yr | R.O. cleaning |
| ROClean P911 | 1000 gallons/event | Periodic Typically 4/yr | R.O. cleaning |
| Bisulfite (sodium bisulfite | 600 gallons/event | As needed | R.O. layup |
| Alkyl alcohol | Variable | As needed | Freeze conditioning agent |
| Propylene Glycol | Variable | As needed | Freeze conditioning agent |
| Calcium Chloride | Variable | As needed | Freeze conditioning agent |
| Diethylene glycol | Variable | As needed | Freeze conditioning agent |
| Glycerin | variable | As needed | Freeze conditioning agent |
| Fertilizer | Variable | As needed | Wetland treatment cell plant management |
| Pelletized Lime | Variable | As needed | Wetland treatment cell plant management |

**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

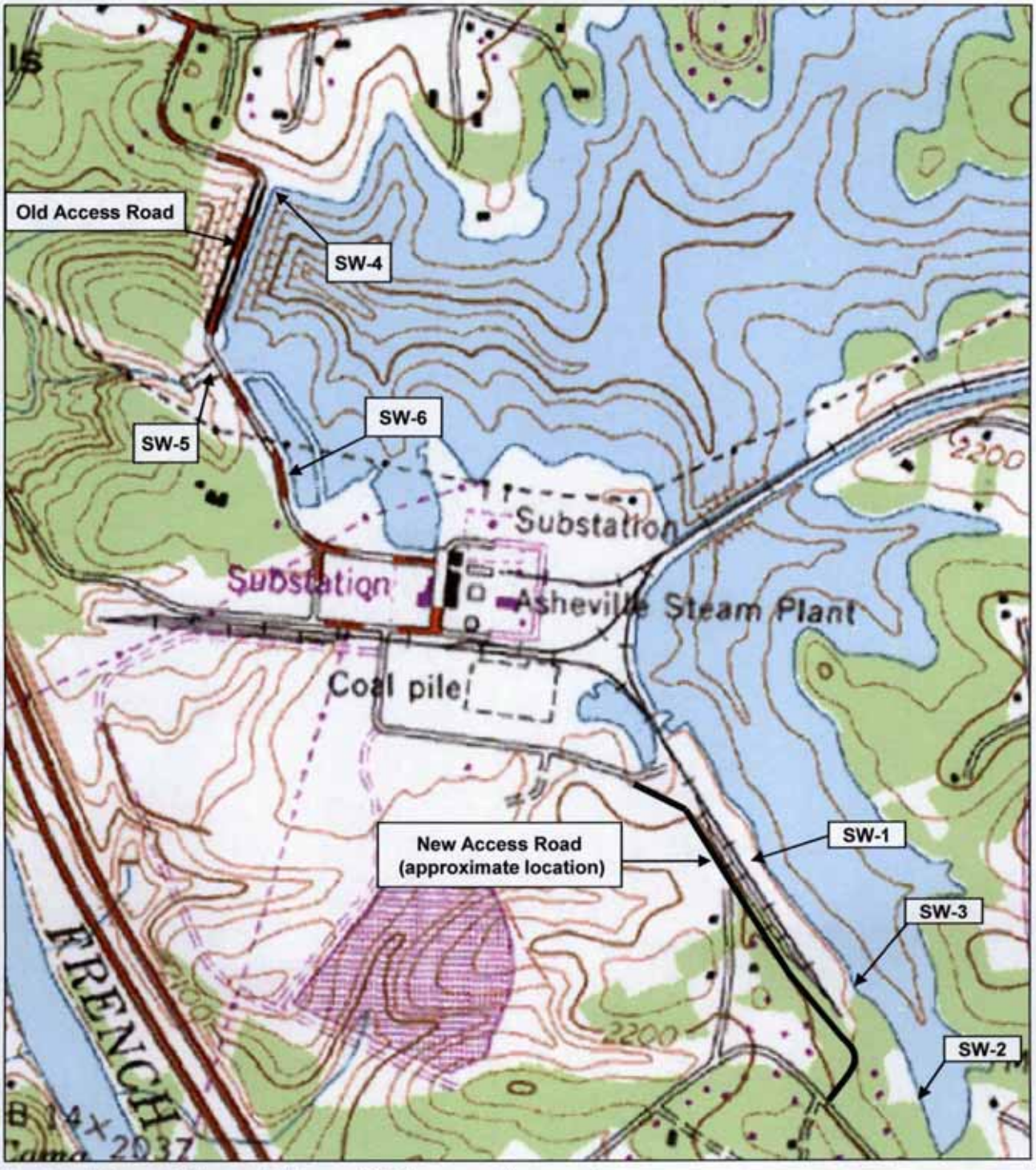
Asheville Steam Electric Plant

National Pollutant Discharge Elimination System Permit Number NC0000396

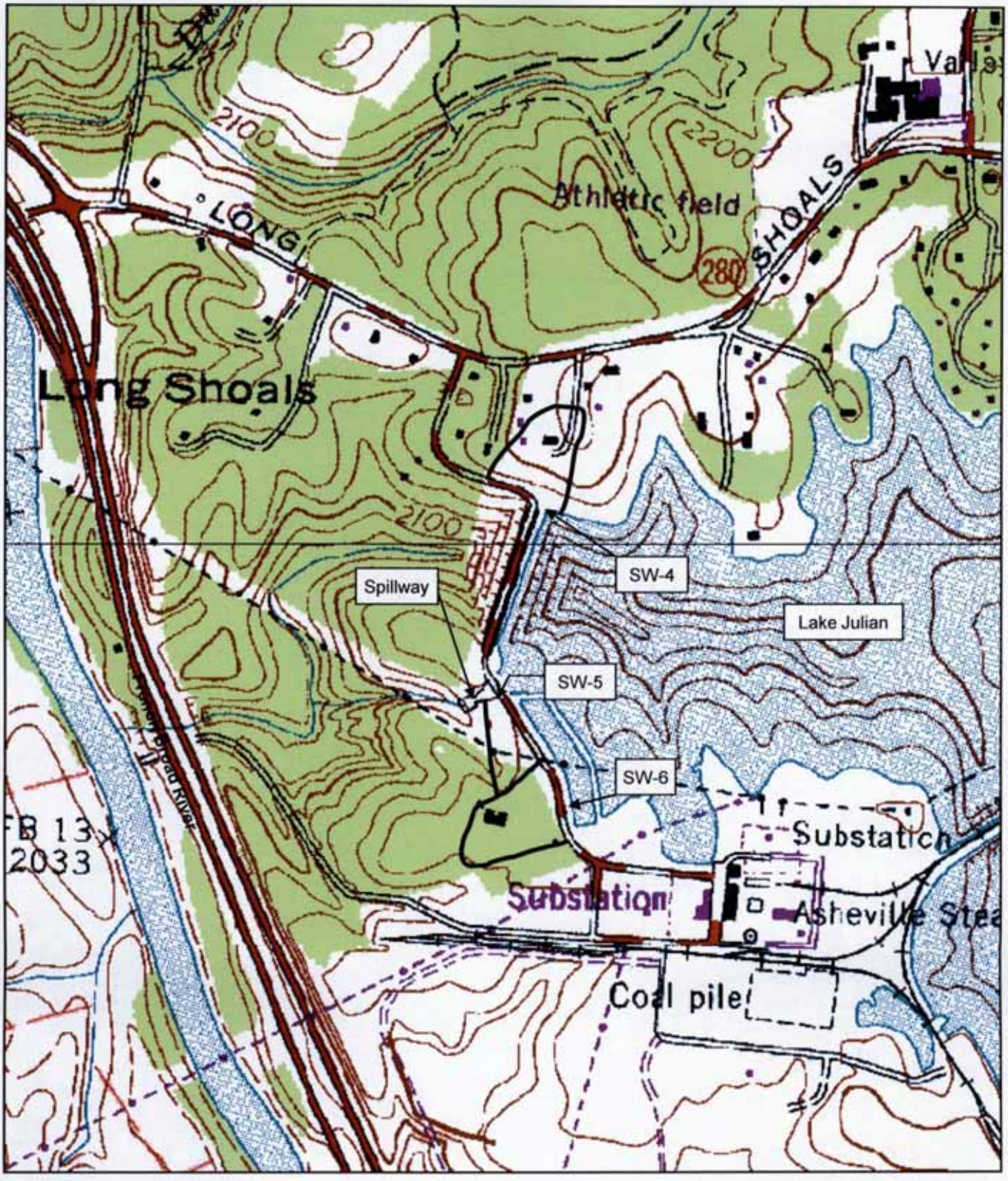
**Attachment 5**

Form 2F – Item III

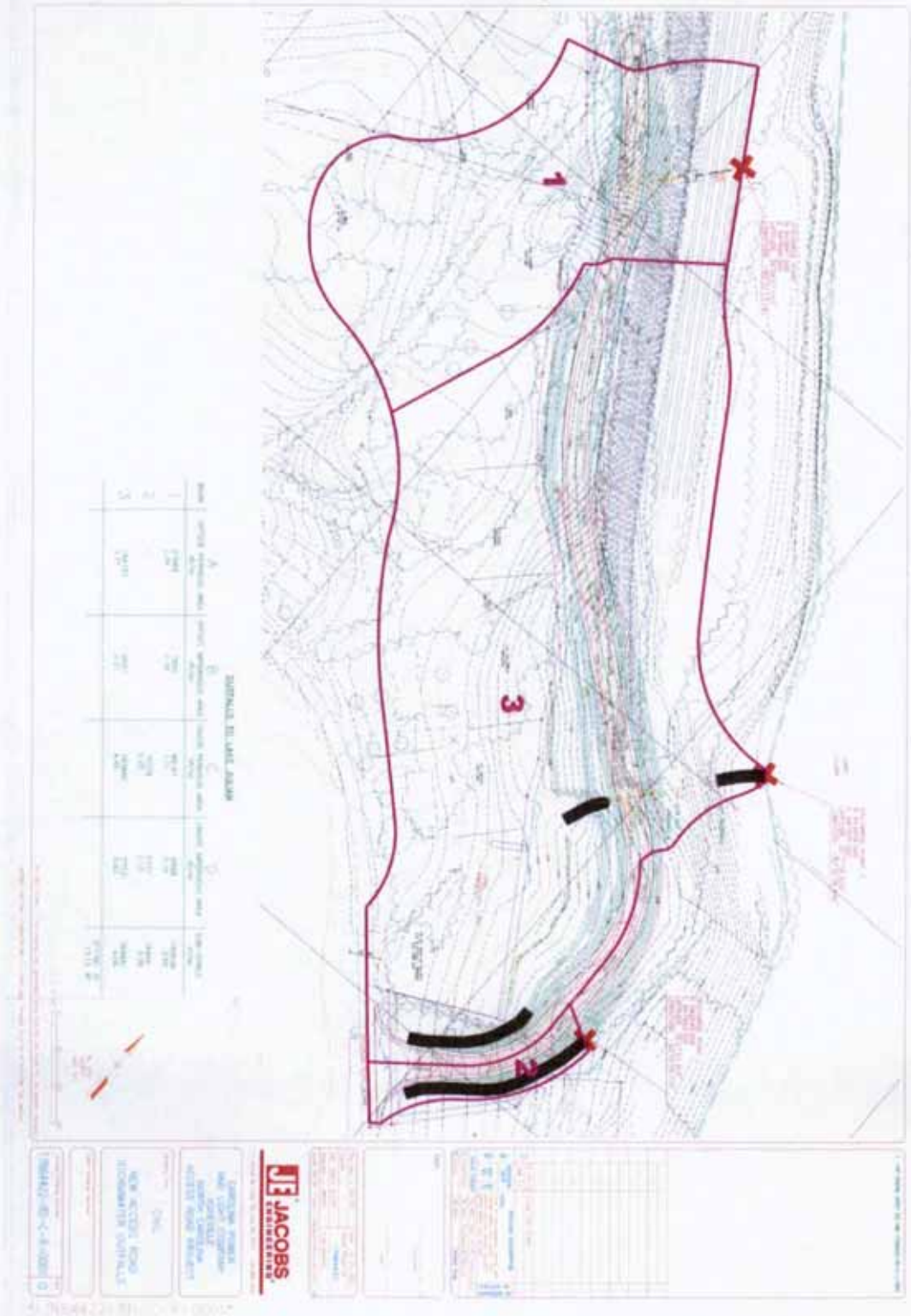
Site Drainage Map




**Attachment 5 – Form 2F – Item III – Map**
Carolina Power & Light Company
Asheville Steam Electric Plant
Buncombe County
Page 1 of 3




Attachment 5 – Form 2F – Item III Site Drainage Map
Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
Buncombe County
Page 2 of 3




Attachment 5 – Form 2F – Item III Site Drainage Map
Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
Buncombe County
Page 3 of 3

**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

Asheville Steam Electric Plant

National Pollutant Discharge Elimination System Permit Number NC0000396

**Attachment 6**

Form 2F – Item IV-B

Narrative Description of Pollutant Sources

**Attachment 6**

**Form 2F - Item IV B. Narrative Description of Pollutant Sources**

Various products and waste products will enter and leave the plant via the old access road, new access road and rail line. The enclosed site drainage maps display the sections of the site access roads from which storm water will discharge to Lake Julian or an unnamed tributary of Powell Creek which discharges into the French Broad River. Storm water from other sections of the roads flows via sheet flow or is conveyed to the 1982 ash pond or to the hot pond prior to discharging to, respectfully, the French Broad River and Lake Julian. The discharges from the hot pond and 1982 ash pond to Lake Julian and the French Broad River, respectively, are NPDES permitted discharge outfalls.

New Access Road

The portion of the road from which storm water will discharge directly to Lake Julian is divided into 3 separate drainage areas, each with an outfall. Storm water that is routed to SW-1 is carried to Lake Julian using piping, grass-lined ditches, concrete-lined ditches and sheet flow. The area drained contains Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. (PEC) property, non-PEC property, the access road and a railroad storage yard where coal-filled rail cars can be stored. Storm water that is routed to SW-2 will be collected in a riprap-lined ditch that will then allow sheet flow to Lake Julian. The area drained contains only the access road. Storm water that is routed to outfall SW-3 will be routed through piping and both grass and riprap-lined ditches. The area drained to SW-3 includes PEC property, non-PEC property, the access road, and the railroad storage yard. PEC can only provide a rough estimate of impervious area for the property not owned by PEC.

The property used for the new access road was purchased by PEC. The past use of this property was residential; therefore, PEC has no knowledge of any significant materials that have been treated, stored or disposed on this property in the past. PEC staff performed a limited Phase 1 Environmental Site Assessment on this property and found no visual evidence of the storage, use, or disposal of chemicals or hazardous substances. Any chemicals used are likely limited to consumer products in limited quantities. PEC has stored in the past and will store in the future coal at the railroad storage yard. The coal is contained in rail cars that are waiting to be unloaded at the plant. Other than the coal stored at the railroad storage yard, PEC has not treated, stored or disposed of any significant materials on any property already owned by PEC in the drainage area of this access road and has no plans to treat, store, or dispose of significant materials on this access road or on immediately surrounding property owned by PEC in the future. No materials loading or unloading activities will take place on the access road, railroad storage yard, or on immediately surrounding property owned by PEC. Various brands of commercial herbicides (i.e., Roundup, Crossbow) might be used to control weeds and other unwanted plant growth for security reasons. These herbicides will be carefully applied by licensed applicators, or persons under the immediate supervision of a licensed applicator, in accordance with the manufacturer's

instructions. Fertilizers, pesticides (other than herbicides), and soil conditioners will not be used by PEC. No hazardous waste treatment, storage, or disposal will occur on this property.

Old Access Road

The portion of the road from which storm water will discharge directly to Lake Julian is divided into 3 separate drainage areas each with an outfall. Storm water that is routed to SW-4 flows over grass-lined ditches and gravel to Lake Julian. The area drained contains PEC property, non-PEC property, and the old access road. Storm water that is routed to SW-5 is collected in a grass-lined ditch that discharges into a concrete conveyance that discharges into the Lake Julian spillway. The spillway discharges to an unnamed tributary of Powell Creek which discharges to the French Broad River. The area drained contains only PEC property, including the access road. Storm water that is routed to outfall SW-6 is conveyed through grass-lined ditches and piping to Lake Julian. The area drained contains PEC property including the access road and a picnic area with several buildings and a shelter.

PEC has not treated, stored or disposed of any significant materials on property owned by PEC in the drainage area of this access road and has no plans to treat, store, or dispose of significant materials on property in the drainage area owned by PEC. No materials loading or unloading activities will take place on the access property owned by PEC. Various brands of commercial herbicides (i.e., Roundup, Crossbow) might be used to control weeds and other unwanted plant growth for security reasons. These herbicides will be carefully applied by licensed applicators, or persons under the immediate supervision of a licensed applicator, in accordance with the manufacturer's instructions. Fertilizers, pesticides (other than herbicides), and/or soil conditioners will not be used by PEC in this drainage area. No hazardous waste treatment, storage, or disposal will occur on PEC property in this drainage area.

**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

Asheville Steam Electric Plant

National Pollutant Discharge Elimination System Permit Number NC0000396

**Attachment 7**

Form 2F – Item IV-C

Description of Structural and Nonstructural Control Measures

## Attachment 7

### Form 2F - Item IV C. Description of existing structural and nonstructural control measures to reduce pollutants

No conventional treatment will be provided for the storm water discharging from any of the outfalls. Prior to discharging to Lake Julian, storm water from Outfalls SW-1, SW-2, SW-4, SW-5, and SW-6 will flow over a vegetative buffer which will provide some filtering of sediment from the storm water.

All coal, limestone, ash and gypsum trucks that travel on the access road are required to be covered which will prevent spillage on this road. These same trucks are required to wash down their wheels prior to exiting the site. The wash water from these wheel washes is routed to the 1982 ash pond for treatment.

During maintenance activities, sludges removed from ditches or manholes may be transported to the 1964 and/or 1982 ash pond for disposal.

**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

Asheville Steam Electric Plant

National Pollutant Discharge Elimination System Permit Number NC0000396

**Attachment 8**

1Q10 flow determination

USGS
science for a changing world

☐ Not applicable 7 sheets

Fax to: (919) 546 - ~~2439~~ 4409

**Date:** March 16, 2010

**To:** Shannon Langley, Progress Energy

**Subject:** Low-flow characteristics, Sta. 03447840

**Comments:**

Per our discussion, low-flow info and correspondence pertaining to Sta. 03447840, dated Feb 04

Call if questions

Thanks for your support...

JCW

*A quick note from:*

**J. Curtis Weaver, P.E.**
Hydrologist (Civil Eng)

jcweaver@usgs.gov
http://nc.water.usgs.gov/

**U.S. Department of the Interior**
**U.S. Geological Survey**

3916 Sunset Ridge Road
Raleigh, NC 27607

(919) 571-4043
(919) 571-4041 FAX

Request No: 91623 Site No: 01 Streamflow Conditions: ____ LOGIN ____ ENTERED ____ GENERATED ____

REQUEST FOR WATER-SUPPLY STATISTICS

Station No. 03447840 Type Station 20 Data Index ____

Station Name French Broad River at NC 280 near Skyland

Location At NC 146 and 2 miles west of Skyland

Lat. 35°28'53", Long 82°33'24", Basin French Broad River

Quad No. Skyland F-8-NE County Henderson - 089 State 37 District 37

HUC 06010105 NRCD 04-03-02m Drainage Area 660

Average Discharge:
Estimated using 2.7 cfsm. 1780 cfs. ____ (A)

Minumum Discharge:

Min. 7 day 10 -year recurrence interval. 4634 cfsm. 306 cfs. (A) 7Q10 = 282 cfs

Min. 30 day 2 -year recurrence interval. 9570 cfsm. 631 cfs. (A)

Min. W7 day 10 -year recurrence interval. 6198 cfsm. 409 cfs. (A)

Min. 7 day 2 -year recurrence interval. 8041 cfsm. 531 cfs. (A)

French Broad River at Fletcher D.A. 640 sq mi. Type 01. July 2001 thru September 2003

____ Creek near ____ River at ____ D.A. ____ sq mi. Type ____

____ River at ____ D.A. ____ sq mi. Type ____
Creek near

Transmitted by letter comp. to Susan Wilson NC DWQ Computed by JCW date 2-10-04
Checked by JCW date 2-10-04
Reviewed by DJR date 2-20-04

Remarks:

| 03447687 | 7Q10 | 30Q2 | W7Q10 | 7Q2 |
|---|---|---|---|---|
| 640 mi² | 297 (.4634) | 613 (.9570) | 397 (.6198) | 515 (.8041) |

and 7Q10
273 (.4258)

(a) Estimate is based on records collected at or near the site.
(b) Estimate is based entirely on runoff observed at nearby streams.
(c) Estimate based on procedures given in Open-File Report 90-399 "Low-Flow Characteristics of Streams in North Carolina"
(d) Estimate based on procedures given in Open-File Report 90-399 and in conjuction with records collected at or near the site.

# United States Department of the Interior

U.S. GEOLOGICAL SURVEY
3916 Sunset Ridge Road
Raleigh, North Carolina 27607

February 23, 2004

Ms. Susan A. Wilson, Environmental Engineer
N.C. Division of Water Quality, NPDES Unit
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

Dear Ms. Wilson:

In response to your request for low-flow data, the U.S. Geological Survey (USGS) does not have site-specific, low-flow discharge data for French Broad River at NC 280 near Skyland, NC (station id 03447840, drainage area 660 $mi^2$). The low-flow characteristics that are provided on the attached sheet have been computed by correlating the runoff characteristics of a nearby continuous-record gaging station upstream of the request site. Please note that the flow estimates do not specifically account for the presence of any diversions or regulation, present or future, which may occur upstream of the request site. Because a similar request for the 1Q10 low-flow discharge was received about the same time from Progress Energy, this low-flow statistic is included on the attached sheet.

Low-flow characteristics were analyzed using streamflow records from a continuous-record gaging station on the French Broad River near Fletcher, operated since July 2001 and located upstream at Secondary Road 1419 (station id 03447840, drainage area 640 $mi^2$). Because of the short period of record at the Fletcher gage, low-flow analyses at this gage were completed by correlation analyses using two other gaging stations having long periods of record (station id's 03443000 and 03451500). Then, using the difference in drainage areas between the request site and the Fletcher gage, low-flow characteristics at the request location were determined using the low-flow yields (expressed as flow per square mile drainage area) at the Fletcher gage. The estimated 7Q10 discharge is 306 $ft^3/s$ and is lower than the estimate provided to you in an e-mail dated January 14, 2004.

Analyses of low-flow characteristics at all three gaging stations indicates a decreasing trend in low-flow yields between the gages at Blantyre and Asheville. Between these two locations, the river is affected by some diversions occurring in tributaries along with regulation by small upstream reservoirs and a power plant located about 8 miles upstream of Blantyre. The analyses indicate that most of the decrease in low-flow yields occurs between the Blantyre and Fletcher gages.

The table shown on the accompanying page summarizes the low-flow characteristics at the gaging stations used in the analyses. As previously discussed in January, the French Broad River downstream from Blantyre is affected by some regulation and diversions. The low-flow discharge values are based on streamflow records available through September 2003, and the associated low-flow yields for each value is listed to provide insight in the changing low-flow yields between the gages.

| USGS downstream order number | Station name | Drainage area ($mi^2$) | Average annual unit flow [$(ft^3/s)/mi^2$] | Low-flow characteristics ($ft^3/s$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 7Q10 | 30Q2 | W7Q10 | 7Q2 |
| 03443000 | French Broad River at Blantyre (Secondary Road 1503, Henderson County) | 296 | 3.3 | 197 (0.666) | 375 (1.267) | 252 (0.851) | 316 (1.068) |
| 03447687 | French Broad River near Fletcher (Secondary Road 1419, Buncombe County) | 640 | 2.7 | 297 (0.463) | 613 (0.957) | 397 (0.620) | 515 (0.804) |
| 03441500 | French Broad River at Asheville (Secondary Road 1348, Buncombe County) | 945 | 2.2 | 425 (0.450) | 833 (0.882) | 563 (0.596) | 720 (0.762) |

These data are preliminary and subject to revision pending approval for publication by the Director of the U.S. Geological Survey, and are made available through our cooperative program of water-resources investigations with the North Carolina Department of Environment and Natural Resources.

If you have any questions regarding this information, please contact us at (919) 571-4000.

Sincerely,

J. Curtis Weaver
Hydrologist

Enclosure

# SUMMARY OF LOW-FLOW ESTIMATES IN RESPONSE TO REQUEST

**REQUEST NO:** 91623 **SITE NO:** 01 **DATE:** 02/10/2004
**SOURCE:** DENR (DWQ) **ACTION:** New

**STATION NUMBER:** 03447840 **STATION TYPE:** Ungaged (20)

**STATION NAME:** French Broad River at NC 280 near Skyland, NC
**LOCATION:** At NC 280 (Long Shoals bridge), and 2 miles west of Skyland
**LATITUDE:** 35°28'53" **LONGITUDE:** 82°33'28"

**QUANDRANGLE NAME AND NUMBER:** Skyland [F-8-NE]

**COUNTY CODE:** Henderson [089] **STATE CODE:** NC [37] **DISTRICT CODE:** NC [37]

**HYDROLOGIC UNIT CODE:** 06010105 **ENR BASIN CODE:** 04-03-02

**DRAINAGE AREA:** 660 $mi^2$

**Flow statistics as follows:**

| | | | | | | |
|---|---|---|---|---|---|---|
| **AVERAGE FLOW: Estimated using** | 2.70 | $ft^3/s/mi^2$ | 1,780 | $ft^3/s$ | see note | [A] |
| **ANNUAL 7Q10 MINIMUM FLOW:** | 0.4634 | $ft^3/s/mi^2$ | 306 | $ft^3/s$ | see note | [A] |
| **ANNUAL 30Q2 MINIMUM FLOW:** | 0.9570 | $ft^3/s/mi^2$ | 631 | $ft^3/s$ | see note | [A] |
| **WINTER 7Q10 MINIMUM FLOW:** | 0.6198 | $ft^3/s/mi^2$ | 409 | $ft^3/s$ | see note | [A] |
| **ANNUAL 7Q2 MINIMUM FLOW:** | 0.8041 | $ft^3/s/mi^2$ | 531 | $ft^3/s$ | see note | [A] |
| **OTHER FLOW (specify):** 1Q10 | 0.4258 | $ft^3/s/mi^2$ | 282 | $ft^3/s$ | see note | [A] |

**NOTES:**

**[A] Estimate is based on records collected at or near the request site.**
**[B] Estimate is based entirely on runoff characteristics observed at nearby streams.**
**[C] Estimate based on procedures given in USGS Water Supply Paper 2403 "Low-flow Characteristics of Streams in North Carolina" (Giese and Mason, 1993).**
**[D] Estimate based on procedures given in USGS Water Supply Paper 2403 and in conjunction with streamflow records collected at or near the request site.**
**[E] See remarks.**

**These data are considered provisional and subject to revision pending approval by the Director, USGS.**

**REMARKS:**
- Low-flow estimates based on low-flow characteristics upstream gaging station 03447687 (French Broad River near Fletcher) during July 2001 through September 2003. 1Q10 flow requested by Progress Energy.
- Requested by Ms. Susan Wilson, N.C. Division of Water Quality // Ms. Louise England, Progress Energy

**ENTERED BY:** JCW **FEE CHARGED: $** 150

# United States Department of the Interior

U.S. GEOLOGICAL SURVEY
3916 Sunset Ridge Road
Raleigh, North Carolina 27607

February 23, 2004

Ms. Louise England, Senior Environmental Specialist
Progress Energy - HBEC
3932 New Hill - Holleman Road
New Hill, North Carolina 27562

Dear Ms. England:

In response to your request for low-flow data, the U.S. Geological Survey (USGS) does not have site-specific, low-flow discharge data for French Broad River at NC 280 near Skyland, NC (station id 03447840, drainage area 660 $mi^2$). The low-flow characteristics that are provided on the attached sheet have been computed by correlating the runoff characteristics of a nearby continuous-record gaging station upstream of the request site. Please note that the flow estimates do not specifically account for the presence of any diversions or regulation, present or future, which may occur upstream of the request site. Because your request was received about the same time as a similar request from the N.C. Division of Water Quality (DWQ), the low-flow statistics estimated for the DWQ are included on the attached sheet.

Low-flow characteristics were analyzed using streamflow records from a continuous-record gaging station on the French Broad River near Fletcher, operated since July 2001 and located upstream at Secondary Road 1419 (station id 03447840, drainage area 640 $mi^2$). Because of the short period of record at the Fletcher gage, low-flow analyses at this gage were completed by correlation analyses using two other gaging stations having long periods of record (station id's 03443000 and 03451500). Then, using the difference in drainage areas between the request site and the Fletcher gage, low-flow characteristics at the request location were determined using the low-flow yields (expressed as flow per square mile drainage area) at the Fletcher gage. The estimated 1Q10 discharge is 282 $ft^3/s$ and is lower than the estimated 7Q10 discharge of 306 $ft^3/s$.

Analyses of low-flow characteristics at all three gaging stations indicates a decreasing trend in low-flow yields between the gages at Blantyre and Asheville. Between these two locations, the river is affected by some diversions occurring in tributaries along with regulation by small upstream reservoirs and a power plant located about 8 miles upstream of Blantyre. The analyses indicate that most of the decrease in low-flow yields occurs between the Blantyre and Fletcher gages.

A charge for accessing and processing information has been assessed to partially offset these costs. Your requested data and an invoice covering processing costs for these data are enclosed. Please forward the original bill with your check to the U.S. Geological Survey, 12201 Sunrise Valley Drive, MS 271, Reston, Virginia 20192.

These data are preliminary and subject to revision pending approval for publication by the Director of the U.S. Geological Survey, and are made available through our cooperative program of water-resources investigations with the North Carolina Department of Environment and Natural Resources.

If you have any questions regarding this information, please contact us at (919) 571-4000.

Sincerely,

J. Curtis Weaver

J. Curtis Weaver
Hydrologist

Enclosures

## SUMMARY OF LOW-FLOW ESTIMATES IN RESPONSE TO REQUEST

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**NOTES:**

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**[E] See remarks.**

**These data are considered provisional and subject to revision pending approval by the Director, USGS.**

**REMARKS:**
- Low-flow estimates based on low-flow characteristics upstream gaging station 03447687 (French Broad River near Fletcher) during July 2001 through September 2003. 1Q10 flow requested by Progress Energy.
- Requested by Ms. Susan Wilson, N.C. Division of Water Quality // Ms. Louise England, Progress Energy

**ENTERED BY:** JCW **FEE CHARGED: $** 150

**Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.**

Asheville Steam Electric Plant

National Pollutant Discharge Elimination System Permit Number NC0000396

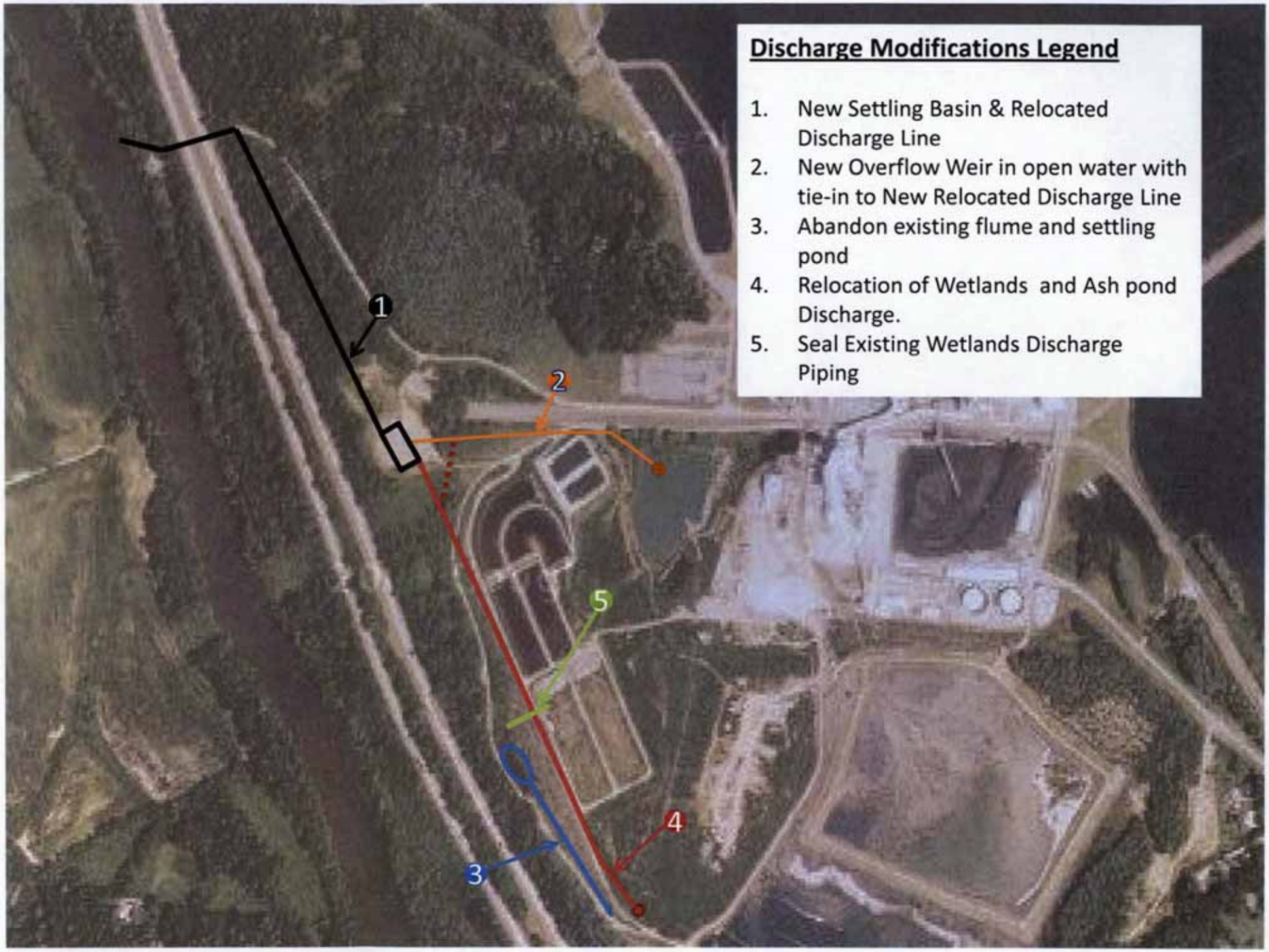
**Attachment 9**

Proposed conceptual relocation route of outfall 001

**Proposed relocation of outfall 001**

In order to facilitate enhancements to the 1964 ash pond dam, it will be necessary to relocate the existing settling basin and discharge outfall 001. The Asheville Steam Electric Plant is located in close proximity to the French Broad River but has limited access to the river because of Interstate 26. In order to relocate outfall 001, it will be necessary to go north approximately 3000 feet to a point where existing access under the Interstate is located. This proposed discharge location is on property owned by Progress Energy. The entire span of property between the existing outfall and the proposed outfall is also owned by Progress Energy.

In addition to the current flows from the 1982 ash pond, a "new" flow will be added to the relocated outfall. This flow will consists of stormwater and ground water seepage that currently flows into the 1964 ash pond. Historically, this flow has been allowed to evaporate and/or infiltrate. The enhancements to the 1964 pond require that this water level be managed and maintained below a certain elevation. Therefore, it may be necessary to periodically pump water from the 1964 ash pond to the combined, relocated settling basin and outfall 001. A sample of the water from the 1964 ash pond was taken as part of the preparation of this application. Results from that sampling analysis are attached.


Discharge Modifications Legend
1. New Settling Basin & Relocated Discharge Line
2. New Overflow Weir in open water with tie-in to New Relocated Discharge Line
3. Abandon existing flume and settling pond
4. Relocation of Wetlands and Ash pond Discharge.
5. Seal Existing Wetlands Discharge Piping
1
2
3
4
5

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**Pace Analytical Services, Inc.**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 23, 2010

Ms. Crystal Diedrich
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: DUCK POND 04/12
Pace Project No.: 9267173

Dear Ms. Diedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**



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## CERTIFICATIONS

Project: DUCK POND 04/12
Pace Project No.: 9267173

**Asheville Certification IDs**
2225 Riverside Dr. Asheville, NC 28804
Connecticut Certification #: PH-0106
Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095
Florida/NELAP Certification #: E87648
West Virginia Certification #: 356

**REPORT OF LABORATORY ANALYSIS**



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## SAMPLE ANALYTE COUNT

Project: DUCK POND 04/12
Pace Project No.: 9267173

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **9267173001** | **DUCK POND** | EPA 200.7 | JMW | 11 | PASI-A |
| | | EPA 245.1 | SHB | 1 | PASI-A |
| | | SM 5210B | JDA | 1 | PASI-A |
| | | 40CFR PART 503 | SAJ | 1 | PASI-A |
| | | EPA 351.2 | EWS | 1 | PASI-A |
| | | EPA 353.2 | JDA | 1 | PASI-A |
| | | EPA 365.1 | JDA | 1 | PASI-A |
| | | SM 5220D | LEP | 1 | PASI-A |



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Huntersville, NC 28078
(704)875-9092

## ANALYTICAL RESULTS

Project: DUCK POND 04/12
Pace Project No.: 9267173

**Sample: DUCK POND** **Lab ID: 9267173001** Collected: 04/12/10 09:00 Received: 04/12/10 12:40 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **200.7 MET ICP** | Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 | | | | | | | |
| Antimony | ND | ug/L | 10.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-36-0 | D3 |
| Arsenic | ND | ug/L | 10.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-38-2 | D3 |
| Beryllium | ND | ug/L | 2.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-41-7 | D3 |
| Cadmium | ND | ug/L | 2.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-43-9 | D3 |
| Chromium | ND | ug/L | 10.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-47-3 | D3 |
| Lead | ND | ug/L | 10.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7439-92-1 | D3 |
| Nickel | **29.6** | ug/L | 10.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-02-0 | D3 |
| Selenium | **21.4** | ug/L | 20.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7782-49-2 | D3 |
| Silver | ND | ug/L | 10.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-22-4 | D3 |
| Thallium | ND | ug/L | 20.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-28-0 | D3 |
| Zinc | **37.6** | ug/L | 20.0 | 2 | 04/15/10 17:00 | 04/19/10 12:28 | 7440-66-6 | D3 |
| **245.1 Mercury** | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 1 | 04/16/10 10:55 | 04/16/10 18:01 | 7439-97-6 | |
| **5210B BOD, 5 day** | Analytical Method: SM 5210B | | | | | | | |
| BOD, 5 day | ND | mg/L | 2.0 | 1 | 04/13/10 17:30 | 04/18/10 14:50 | | B2 |
| **Total Nitrogen Calculation** | Analytical Method: 40CFR PART 503 | | | | | | | |
| Nitrogen | **0.73** | mg/L | 0.60 | 1 | | 04/21/10 15:25 | 7727-37-9 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 | | | | | | | |
| Nitrogen, Kjeldahl, Total | **0.66** | mg/L | 0.50 | 1 | | 04/22/10 13:30 | 7727-37-9 | |
| **353.2 Nitrogen, NO2/NO3 pres.** | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, NO2 plus NO3 | ND | mg/L | 0.10 | 1 | | 04/19/10 11:28 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | ND | mg/L | 0.10 | 1 | | 04/18/10 11:33 | 7723-14-0 | |
| **5220D COD** | Analytical Method: SM 5220D | | | | | | | |
| Chemical Oxygen Demand | ND | mg/L | 25.0 | 1 | | 04/14/10 16:46 | | |



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(704)875-9092

## QUALITY CONTROL DATA

Project: DUCK POND 04/12
Pace Project No.: 9267173

QC Batch: MPRP/6150 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 9267173001

METHOD BLANK: 429215 Matrix: Water
Associated Lab Samples: 9267173001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Antimony | ug/L | ND | 5.0 | 04/16/10 17:25 | |
| Arsenic | ug/L | ND | 5.0 | 04/16/10 17:25 | |
| Beryllium | ug/L | ND | 1.0 | 04/16/10 17:25 | |
| Cadmium | ug/L | ND | 1.0 | 04/16/10 17:25 | |
| Chromium | ug/L | ND | 5.0 | 04/16/10 17:25 | |
| Lead | ug/L | ND | 5.0 | 04/16/10 17:25 | |
| Nickel | ug/L | ND | 5.0 | 04/16/10 17:25 | |
| Selenium | ug/L | ND | 10.0 | 04/16/10 17:25 | |
| Silver | ug/L | ND | 5.0 | 04/16/10 17:25 | |
| Thallium | ug/L | ND | 10.0 | 04/16/10 17:25 | |
| Zinc | ug/L | ND | 10.0 | 04/16/10 17:25 | |

LABORATORY CONTROL SAMPLE: 429216

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 500 | 474 | 95 | 85-115 | |
| Arsenic | ug/L | 500 | 480 | 96 | 85-115 | |
| Beryllium | ug/L | 500 | 496 | 99 | 85-115 | |
| Cadmium | ug/L | 500 | 479 | 96 | 85-115 | |
| Chromium | ug/L | 500 | 483 | 97 | 85-115 | |
| Lead | ug/L | 500 | 486 | 97 | 85-115 | |
| Nickel | ug/L | 500 | 482 | 96 | 85-115 | |
| Selenium | ug/L | 500 | 480 | 96 | 85-115 | |
| Silver | ug/L | 250 | 224 | 90 | 85-115 | |
| Thallium | ug/L | 500 | 468 | 94 | 85-115 | |
| Zinc | ug/L | 500 | 490 | 98 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 429217 429218

| Parameter | Units | 9267053001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | ND | 500 | 500 | 491 | 488 | 97 | 97 | 70-130 | 1 | |
| Arsenic | ug/L | 0.0080 mg/L | 500 | 500 | 510 | 507 | 100 | 100 | 70-130 | 1 | |
| Beryllium | ug/L | ND | 500 | 500 | 503 | 499 | 101 | 100 | 70-130 | 1 | |
| Cadmium | ug/L | 0.0013 mg/L | 500 | 500 | 476 | 474 | 95 | 95 | 70-130 | 0 | |
| Chromium | ug/L | 0.034 mg/L | 500 | 500 | 519 | 514 | 97 | 96 | 70-130 | 1 | |
| Lead | ug/L | 0.034 mg/L | 500 | 500 | 511 | 506 | 95 | 94 | 70-130 | 1 | |



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## QUALITY CONTROL DATA

Project: DUCK POND 04/12
Pace Project No.: 9267173

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 429217 429218

| Parameter | Units | 9267053001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nickel | ug/L | 0.53 mg/L | 500 | 500 | 1010 | 987 | 95 | 91 | 70-130 | 2 | |
| Selenium | ug/L | ND | 500 | 500 | 489 | 480 | 98 | 96 | 70-130 | 2 | |
| Silver | ug/L | ND | 250 | 250 | 225 | 224 | 90 | 89 | 70-130 | 0 | |
| Thallium | ug/L | ND | 500 | 500 | 429 | 429 | 86 | 86 | 70-130 | 0 | |
| Zinc | ug/L | 4.3 mg/L | 500 | 500 | 4790 | 4810 | 93 | 98 | 70-130 | 0 | |

SAMPLE DUPLICATE: 429219

| Parameter | Units | 9266960001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Antimony | ug/L | 87.5 | 90.0 | 3 | |
| Arsenic | ug/L | 258 | 280 | 9 | |
| Beryllium | ug/L | 26.4 | 28.5 | 8 | |
| Cadmium | ug/L | 187 | 204 | 9 | |
| Chromium | ug/L | 1310 | 1400 | 7 | |
| Lead | ug/L | 3460 | 3500 | 1 | |
| Nickel | ug/L | 1260 | 1380 | 9 | |
| Selenium | ug/L | 193 | 195 | 1 | |
| Silver | ug/L | 171 | 195 | 13 | |
| Thallium | ug/L | ND | 28.6J | | |
| Zinc | ug/L | 126000 | 138000 | 9 | |



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Huntersville, NC 28078
(704)875-9092

## QUALITY CONTROL DATA

Project: DUCK POND 04/12
Pace Project No.: 9267173

QC Batch: MERP/2765
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 9267173001

METHOD BLANK: 428949 Matrix: Water
Associated Lab Samples: 9267173001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.20 | 04/16/10 21:21 | |

LABORATORY CONTROL SAMPLE: 428950

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2.5 | 2.5 | 100 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 428951 428952

| Parameter | Units | 9267110001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 2.5 | 2.5 | ND | 2.5 | -2 | 97 | 70-130 | | M0 |

SAMPLE DUPLICATE: 428953

| Parameter | Units | 9267173001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: DUCK POND 04/12
Pace Project No.: 9267173

QC Batch: WET/12044
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 9267173001

METHOD BLANK: 428123 Matrix: Water
Associated Lab Samples: 9267173001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| BOD, 5 day | mg/L | ND | 2.0 | 04/18/10 14:50 | |

LABORATORY CONTROL SAMPLE: 428124

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| BOD, 5 day | mg/L | 198 | 174 | 88 | 84-115 | |

SAMPLE DUPLICATE: 428137

| Parameter | Units | 9267206001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| BOD, 5 day | mg/L | 1370 | 1370 | 0 | |



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## QUALITY CONTROL DATA

Project: DUCK POND 04/12
Pace Project No.: 9267173

QC Batch: WETA/7196
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Associated Lab Samples: 9267173001

METHOD BLANK: 431150
Matrix: Water
Associated Lab Samples: 9267173001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | ND | 0.50 | 04/22/10 13:27 | |

LABORATORY CONTROL SAMPLE: 431151

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 5 | 5.2 | 105 | 90-110 | |

MATRIX SPIKE SAMPLE: 431152

| Parameter | Units | 9266978001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 6.0 | 5 | 9.7 | 74 | 90-110 | M0 |

SAMPLE DUPLICATE: 431153

| Parameter | Units | 9267173001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 0.66 | 1.6 | 82 | R1 |



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## QUALITY CONTROL DATA

Project: DUCK POND 04/12
Pace Project No.: 9267173

QC Batch: WETA/7183
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 9267173001

METHOD BLANK: 430324 Matrix: Water
Associated Lab Samples: 9267173001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | ND | 0.10 | 04/18/10 10:32 | |

LABORATORY CONTROL SAMPLE: 430325

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | 5 | 5.1 | 102 | 90-110 | |

MATRIX SPIKE SAMPLE: 430326

| Parameter | Units | 9266802001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | 0.41 | 5 | 5.2 | 96 | 75-125 | |

MATRIX SPIKE SAMPLE: 430328

| Parameter | Units | 9267367005 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | 7.6 | 5 | 11.7 | 81 | 75-125 | |

SAMPLE DUPLICATE: 430327

| Parameter | Units | 9266805001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | 0.46 | 0.46 | 2 | |

SAMPLE DUPLICATE: 430329

| Parameter | Units | 9267367007 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: DUCK POND 04/12
Pace Project No.: 9267173

QC Batch: WETA/7175
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9267173001

METHOD BLANK: 429864 Matrix: Water
Associated Lab Samples: 9267173001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/L | ND | 0.10 | 04/18/10 11:26 | |

LABORATORY CONTROL SAMPLE: 429865

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/L | 1 | 1.0 | 101 | 90-110 | |

MATRIX SPIKE SAMPLE: 429866

| Parameter | Units | 9267367015 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/L | 43.6 | 1 | 44.9 | 123 | 90-110 | M0 |

MATRIX SPIKE SAMPLE: 429868

| Parameter | Units | 9266715001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/L | 3.2 | 1 | 5.1 | 194 | 90-110 | M0 |

SAMPLE DUPLICATE: 429867

| Parameter | Units | 9266947001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/L | 3.4 | 3.4 | 0 | |

SAMPLE DUPLICATE: 429869

| Parameter | Units | 9267067001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/L | 7.0 | 7.1 | 2 | |



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## QUALITY CONTROL DATA

Project: DUCK POND 04/12
Pace Project No.: 9267173

QC Batch: WETA/7144
QC Batch Method: SM 5220D
Analysis Method: SM 5220D
Analysis Description: 5220D COD
Associated Lab Samples: 9267173001

METHOD BLANK: 428014 Matrix: Water
Associated Lab Samples: 9267173001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | ND | 25.0 | 04/14/10 16:46 | |

LABORATORY CONTROL SAMPLE: 428015

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 750 | 716 | 95 | 90-110 | |

MATRIX SPIKE SAMPLE: 428016

| Parameter | Units | 9266663008 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 70.0 | 750 | 804 | 98 | 75-125 | |

MATRIX SPIKE SAMPLE: 428022

| Parameter | Units | 9266996001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 179 | 750 | 890 | 95 | 75-125 | |

SAMPLE DUPLICATE: 428021

| Parameter | Units | 9266750007 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 600 | 596 | 1 | |

SAMPLE DUPLICATE: 428023

| Parameter | Units | 9266758005 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 2630 | 2580 | 2 | |



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# QUALIFIERS

Project: DUCK POND 04/12
Pace Project No.: 9267173

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## LABORATORIES

| | |
|---|---|
| PASI-A | Pace Analytical Services - Asheville |

## ANALYTE QUALIFIERS

| | |
|---|---|
| B2 | Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample. |
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| R1 | RPD value was outside control limits. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DUCK POND 04/12
Pace Project No.: 9267173

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **9267173001** | **DUCK POND** | EPA 200.7 | MPRP/6150 | EPA 200.7 | ICP/5675 |
| **9267173001** | **DUCK POND** | EPA 245.1 | MERP/2765 | EPA 245.1 | MERC/2731 |
| **9267173001** | **DUCK POND** | SM 5210B | WET/12044 | SM 5210B | WET/12085 |
| **9267173001** | **DUCK POND** | 40CFR PART 503 | WET/12127 | | |
| **9267173001** | **DUCK POND** | EPA 351.2 | WETA/7196 | | |
| **9267173001** | **DUCK POND** | EPA 353.2 | WETA/7183 | | |
| **9267173001** | **DUCK POND** | EPA 365.1 | WETA/7175 | | |
| **9267173001** | **DUCK POND** | SM 5220D | WETA/7144 | | |



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**Appendix C**

Ash Pond Storage Volume Documents
Question 3

The outlet facilities are designed to pass surface runoff from rainstorms. With this lengthening of the dam, a larger land area for surface runoff is encompassed than previously. The total surface area for runoff, including the pond, is 66 acres. The maximum discharge rate used for design of the outlet works was 155 cubic feet per second. This would be produced by a rainstorm comprising the "probable maximum precipitation" for the site according to data published by the U. S. Weather Bureau.

A spring existed at the dam site prior to beginning construction. This was located in the foundation of the dam downstream (west) of the core trench and on the north slope of the hill which constitited the left abutment of the main dam. Water from this outlet was deduced by a geologist to be drainage from the water bearing strata in the hill. This previously observed flow was seen to exist after completion of construction. It was mistaken by some observers for a leak through the foundation from the ash pond. This is not the case. The "spring" is under the rockfill dam. After fill was first placed over the "spring" and after completion of the project, before ash sluice water was discharged into the new portion of the pond directly upstream of this point, it was observed that the flow discharged at the toe of the dam. The flow was through the sand filter drain (a blanket of sand) underlying the entire dam on the downstream side of the core wall. The purpose of the sand filter is to provide an outlet for seepage and other discharges such as this, and thus to prevent hydrostatic pressure from building up inside the embankment.

## PERTINENT DATA ON POND AND DAM

| | |
|---|---|
| Storage Available July 11, 1970 (to top of dam) ------- | 60,117,000 Cu. Ft. |
| Surface Area of Total Storage ---------- | 43.4 Acres |
| Elevation of Top of Dam ---------- | 2,157.5 Ft. |
| Maximum Height of Dam, Above Natural Ground ---------- | 100 Ft. |
| Length of Dam (Including Raised Portion and saddle dike) ---------- | 3,550 Ft. |
| Volume in Dam (This Subcontract, New Embankment) ------ | 631,500 Cu. Yd. |
| Concrete in Outlet Works (2 structures) ---------- | 290 Cu. Yd. |

### Stilling Pool

| | |
|---|---|
| Elevation of Top of Dam ---------- | 2,062.0 Ft. |
| Length of Dam ---------- | 285 Ft. |
| Maximum Height of Dam, Above Natural Ground ---------- | 20 Ft. |
| Operating Water Surface Elevation ---------- | 2,060 Ft. |

### CONCRETE

The various plant structures are supported on reinforced concrete spread footings. Piling was not used.

CP&L
Form 80047
7/84

CAROLINA POWER & LIGHT COMPANY
FOSSIL ENGINEERING & CONSTRUCTION DEPARTMENT
CALCULATION SHEET

File:
Page: of
Date: 10/26/84
Checked By:

| **Purpose** LIFE NEW ASH POND | **Project** ASHEVILLE | **Originator/Section** BARKER / CIVIL |
|---|---|---|

(1971-1983) BA...

OLD ASH POND CAPACITY = 46,430,000 FT.$^3$ = 1066 ACRE FT.

TONS OF ASH PUMPED IN
OLD ASH POND (1970-1983) = 1,491,000 TONS ASH

$$\frac{1{,}491{,}000 \text{ TONS}}{1066 \text{ ACRE FT.}} = 1399 \text{ TONS/ACRE FT.}$$

NEW ASH POND CAPACITY (EL. 2155') = 1100 ACRE/FT

1100 ACRE FT. × 1399 TONS/ACRE FT. = 1,538,900 TONS ASH

$$\frac{1{,}538{,}900 \text{ TONS}}{116{,}098 \text{ TONS/YR}} = 13.26 \text{ YRS}$$

CP&L
Form 80047
7/84

CAROLINA POWER & LIGHT COMPANY
FOSSIL ENGINEERING & CONSTRUCTION DEPARTMENT
CALCULATION SHEET

File:
Page: of
Date: 10/22/84
Checked By:

| **Purpose** LIFE OF NEW ASH POND | **Project** ASHEVILLE | **Originator/Section** R.T. PARKER / CIVIL |
|---|---|---|

(1979-1988) BASIS

TOTAL ASH PRODUCTION = 116,098 TONS/YR.

FLY ASH IS 80% OF TOTAL BY WT. ≈ 92,878

BOTTOM ASH IS 20% OF TOTAL BY WT. ≈ 23,220

DENSITY OF FLY ASH = 70 LB/FT$^3$

DENSITY OF BOTTOM ASH = 80 LB/FT$^3$

ACRE FT OF FLY ASH/YR

$$\frac{92,878 \text{ tons} \times 2000}{70 \times 43,560} \approx 61 \text{ ACRE FT/YR}$$

ACRE FT OF BOTTOM ASH/YR

$$\frac{23,220 \text{ Tons} \times 2000}{80 \times 43,560} \approx 13 \text{ ACRE FT/YR}$$

TOTAL ASH PRODUCTION = 74 ACRE FT/YR

AT EL 2155 STORAGE CAPACITY = 1100 ACRE FT

$$\frac{1100 \text{ ACRE FT}}{74 \text{ ACRE FT/YR}} \approx 15 \text{ YRS.}$$

CP&L
Form 80047
7/84

CAROLINA POWER & LIGHT COMPANY
FOSSIL ENGINEERING & CONSTRUCTION DEPARTMENT
CALCULATION SHEET

File:
Page: of
Date:
Checked By:

| Purpose | Project | Originator/Section |
|---|---|---|
| NEW ASH POND CAPACITY | ASHEVILLE | R. T. SMITH / CIVIL |

1 IN² = 10,000 FT²

VOLUME CALCULATIONS

| EL | IN² | FT² | VOLUME (FT³) | VOLUME (ACRE FT) | TOTAL VOLUME UP TO THIS ELEVATION (ACRE FT) |
|---|---|---|---|---|---|
| 2101.5 | 30.416 | 304,160 | | | |
| | | | 1,538,775 | 35.33 | 35.33 |
| 2105 | 37.93 | 379,300 | | | |
| | | | 2,095,250 | 48.10 | 83.43 |
| 2110 | 45.88 | 458,800 | | | |
| | | | 2,522,000 | 57.90 | 141.33 |
| 2115 | 55.00 | 550,000 | | | |
| | | | 3,037,250 | 69.73 | 211.06 |
| 2120 | 66.49 | 664,900 | | | |
| | | | 3,655,750 | 83.92 | 294.98 |
| 2125 | 74.74 | 747,400 | | | |
| | | | 4,293,000 | 98.55 | 393.53 |
| 2130 | 91.98 | 919,800 | | | |
| | | | 4,943,500 | 113.49 | 507.02 |
| 2135 | 105.76 | 1,057,600 | | | |
| | | | 5,604,750 | 127.67 | 634.69 |
| 2140 | 118.43 | 1,184,300 | | | |
| | | | 6,373,750 | 146.32 | 781.01 |
| 2145 | 136.52 | 1,365,200 | | | |
| | | | 7,734,250 | 177.55 | 958.56 |
| 2150 | 172.85 | 1,728,500 | | | |
| | | | 8,901,250 | 204.34 | 1162.90 |
| 2155 | 183.20 | 1,832,000 | | | |
| | | | 9,693,500 | 222.55 | 1385.50 |
| 2160 | 204.74 | 2,047,400 | | | |

CP&L
Form 80047
7/84

CAROLINA POWER & LIGHT COMPANY
FOSSIL ENGINEERING & CONSTRUCTION DEPARTMENT
CALCULATION SHEET

File:
Page: of
Date: 11/2/84
Checked By:

| **Purpose** NEW ASH POND | **Project** ASHEVILLE | **Originator/Section** |
|---|---|---|

PROPOSED RAISING OF DIKE

| EL | AREA ($FT^2$) | VOLUME ($FT^3$) | VOLUME (AC.-FT) |
|---|---|---|---|
| 2160 | 2,047,400 | | |
| | | 10,747,250 | 246.7 |
| 2165 | 2,251,500 | | |
| | | 11,609,750 | 266.5 |
| 2170 | 2,392,400 | | |

**DAM INFORMATION SUMMARY**
**Asheville Steam Electric Plant**
**Ash Ponds**
**Buncombe County, North Carolina**

## 1. Location

Located south of Skyland, NC and immediately east of I-26 and French Broad River
Latitude: N 35° 28'
Longitude: W 82° 33'

## 2. Size and Dimensions

| | 1964* | 1982*** |
|---|---|---|
| Length (feet): | | 1,500 |
| Maximum Structural Height: | 90 | 95 |
| Surface Area (acres): | 45 | 46 |
| Storage capacity (acre feet): | not known | 1,400 |
| Size Classification: | Intermediate | Intermediate |
| Hazard Classification: | High | High |
| Regulatory Design Storm | ½ to Full PMP** | ½ to Full PMP** |
| US Slope: | 1.5:1 | 2:1 |
| DS Slope: | 1.5:1 | 2.5:1 |
| Crest Width: | 12' | 15' |
| Crest Elevation: | 2157.5 | 2165' |
| Maximum Design Pool Elevation: | 2150' | 2160' |
| 2005 Pool Elevation: | No Pool | 2159 |
| Instrumentation: | Seepage weir | Two seepage weirs, 4 piezometers |

*Pond was drained and the ash stabilized in 1982. Was used used as restacking area for ash from the 1982 pond. Restacking ended in 2007, but area may be used again for restacking. During restacking, ash-water slurry is being pumped into shallow holding areas for drainage.

** Probable Maximum Precipitation (PMP) is 30.96 inches over 6 hours. ½ PMP = 15.48"
*** Interior diking constructed in 2006 to allow additional interior storage.

## 3. Geology and Seismicity

Located in Blue Ridge Belt with chiefly gneiss and schist with subordinate occurrences of granitic rocks and basic intrusives.

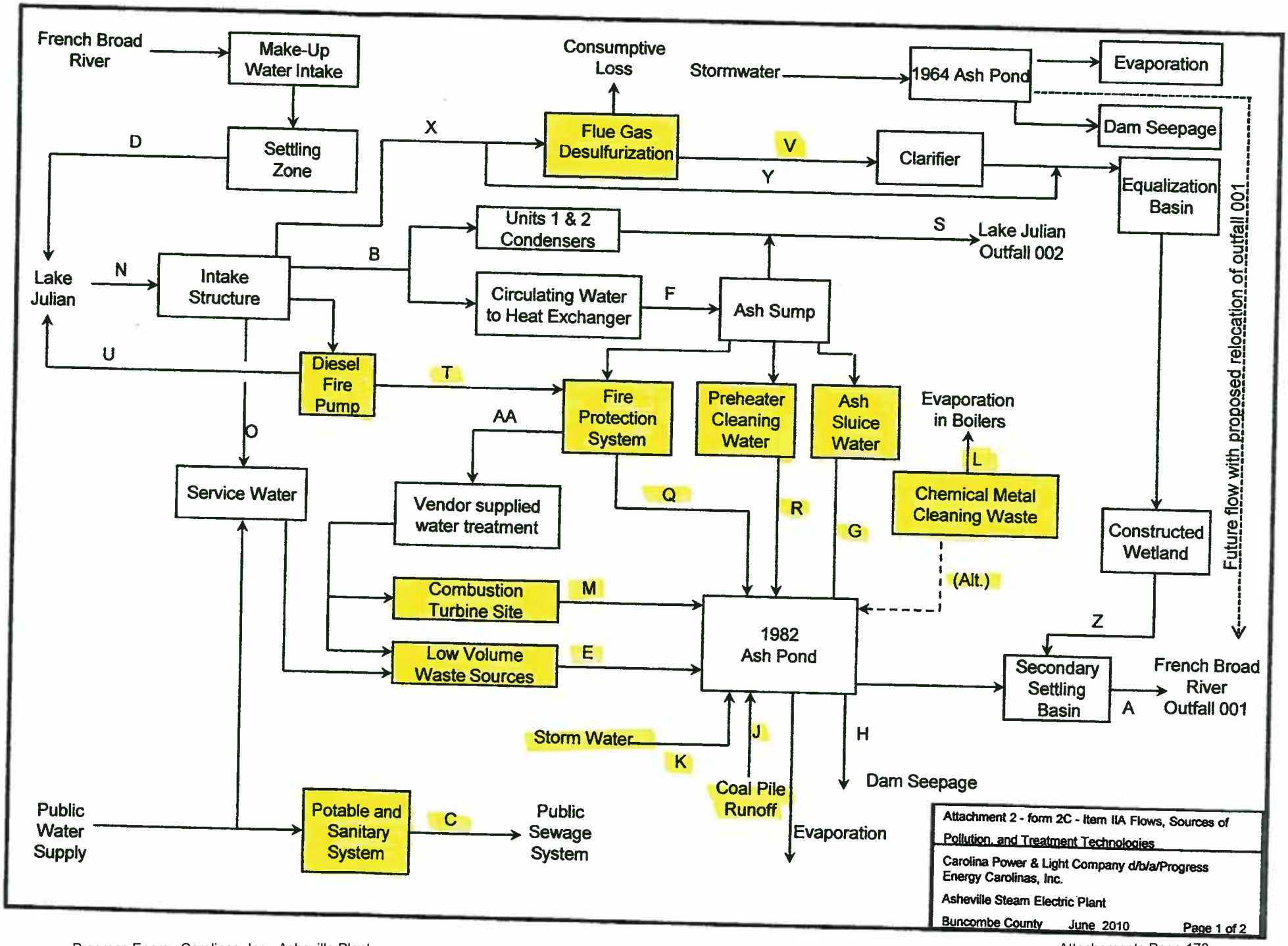
Near Zone 2A seismic zone according to Corps of Engineers with
Design Earthquake: $a_h = 0.15$ g

## 4. Design Information

**1964 Dam:** Design of original dam by Ebasco as part of plant construction. 1970-71 expansion designed by Brown and Root. Subsurface exploration for 1970-71 expansion was performed by National Soil Services, Inc. A vertical chimney drain connecting to a horizontal drain blanket is present in the expansion portion.

**Appendix D**

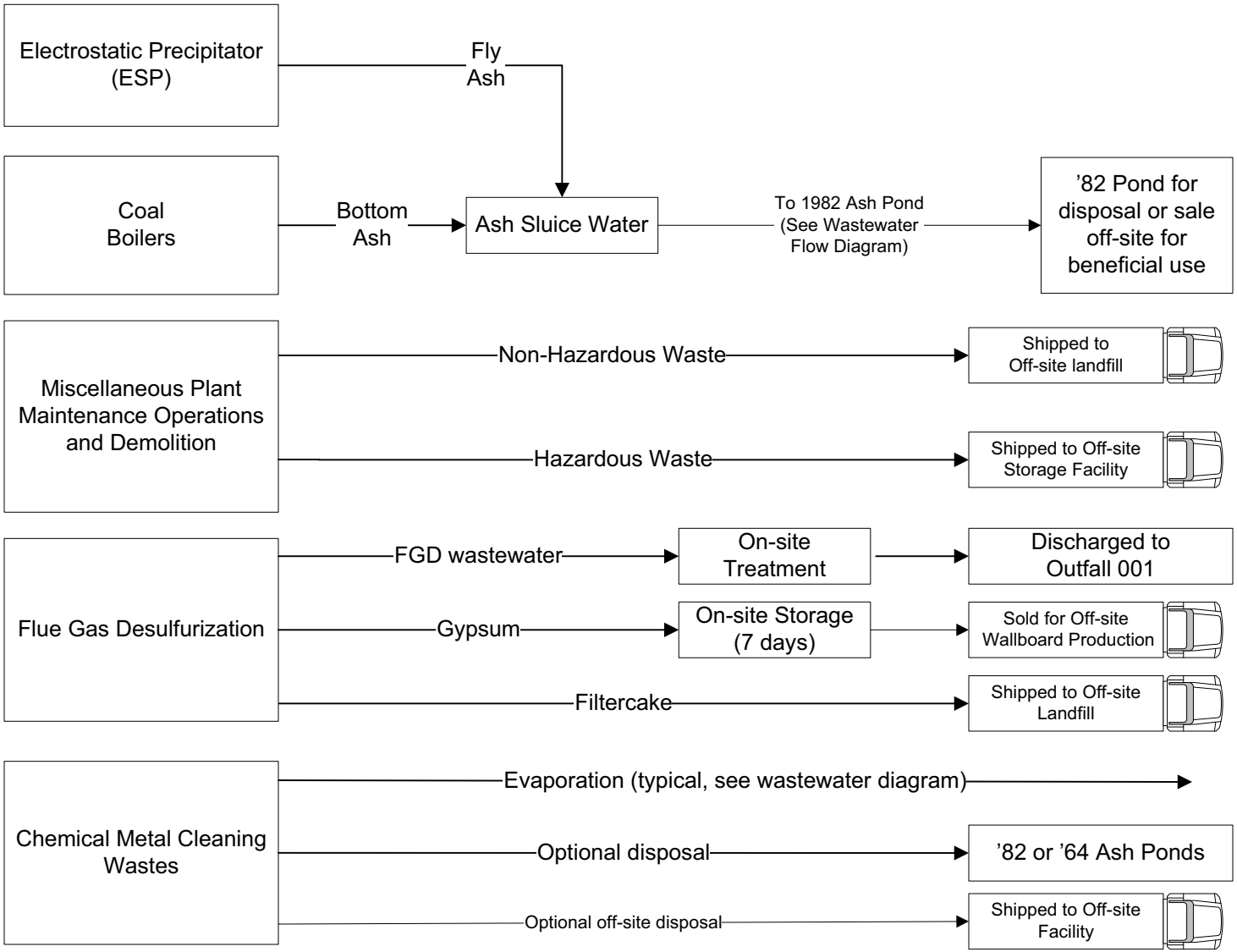
Waste Streams Flow Diagrams
Question 7


French Broad River
Make-Up Water Intake
Consumptive Loss
Stormwater
1964 Ash Pond
Evaporation
Dam Seepage
D
Settling Zone
X
Flue Gas Desulfurization
V
Clarifier
Y
Equalization Basin
Units 1 & 2 Condensers
S
Lake Julian Outfall 002
Lake Julian
N
Intake Structure
B
Circulating Water to Heat Exchanger
F
Ash Sump
U
Diesel Fire Pump
T
Fire Protection System
Preheater Cleaning Water
Ash Sluice Water
Evaporation in Boilers
AA
O
L
Service Water
Vendor supplied water treatment
Q
R
G
Chemical Metal Cleaning Waste
Constructed Wetland
Future flow with proposed relocation of outfall 001
(Alt.)
Combustion Turbine Site
M
Z
1982 Ash Pond
Low Volume Waste Sources
E
Secondary Settling Basin
French Broad River Outfall 001
A
Storm Water
J
H
K
Dam Seepage
Coal Pile Runoff
Public Water Supply
Potable and Sanitary System
C
Public Sewage System
Evaporation
Attachment 2 - form 2C - Item IIA Flows, Sources of Pollution, and Treatment Technologies
Carolina Power & Light Company d/b/a/Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
Buncombe County June 2010 Page 1 of 2

## Attachment 2
## Form 2C - Item II-A Flow, Sources of Pollution, and Treatment Technologies

| Stream | Name | Average Flow | Comments |
|---|---|---|---|
| A | Ash Pond Discharge | 3.52 MGD | Outfall 001 |
| B | Intake to Once-through Cooling & Circulating Water to Heat Exchangers | 255.1MGD | |
| C | Plant Potable and Sanitary Uses | 0.002 MGD | From POTW |
| D | Makeup to Lake from River | 2.68 MGD | 2009 Average |
| E | Low Volume Wastes<br>• Ash Hopper Seals<br>• Sandbed Filter Backwash<br>• Boiler Blowdown<br>• Truck Wash<br>• Water purification process waste streams | <br>0.05 MGD<br>2600 Gal/event<br>0.006 MGD<br>Variable<br>variable | <br><br>Rare Usage<br>Startup - Estimated |
| F | Circulating Water from Heat Exchangers | 19.3 MGD | Estimated |
| G | Ash Sluice Water | 3.03 MGD | Estimated |
| H | Dam Seepage | 0.09 MGD | Calculated |
| I | City Water Supply to Boiler Makeup | 0 MGD | Rare Usage |
| J | Coal Pile Runoff | 0.01 MGD | Based on Average Annual Rainfall of 47" and 50 % Runoff |
| K | Storm Water | 0.07 MGD | Estimated |
| L | Chemical Metal Cleaning Wastes | 0 - 90,000 Gallons (0 gallons anticipated) | Normal Practice is Evaporation |
| M | Water From Combustion Turbine Facility Operation (Blade wash activities) | 0 - 0.02 MGD | Intermittent |
| N | From Lake to Intake | 256.59 MGD | Estimated |
| O | Intake to Service Water | 0.05 MGD | Estimated |
| Q | Fire Protection Water | 0.010 MGD | Estimated |
| R | Air Preheater Cleaning | 10,000 gallons/event | Estimated |
| S | Discharge to Lake Julian | 255.1 MGD | |
| T | Emergency Fire Protection Water | 0 | Used for fire fighting Outfall 002 -Calculated |
| U | Diesel Fire Pump to Lake Julian | 0.128 MG/week | Estimate - pump testing |
| V | Flue Gas Desulfurization Blowdown | 0.086 MGD | Calculated |
| X | Intake to FGD system | 01.08 MGD | |
| Y | Chloride Dilution Water | 0.35 MGD | |
| Z | Constructed Wetland Discharge | 0.376 MGD | Outfall 005 |
| AA | Makeup water supply | 22 Million gallons/year | Calculated |

# Flow Diagram for Wastes other than Wastewaters
# Progress Energy, Asheville Plant



**Appendix E**

Discharge Monitoring Reports for 2005 – May 2010
Questions 7 and 9

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month January | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) Tritest (2) Asheville Steam Electric Plant (3) Environmental Testing Solutions
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | Holiday | | N | | | | | | | | | | | |
| 4 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 5 | 07:00 | 9.20 | Y | 2.33 | 7.2 | 3.4 | <5.0 | 1.19 | <0.05 | <10 | 0.018 | 0.031 | | |
| 6 | 07:00 | 9.30 | Y | | | | | | | | | | | |
| 7 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 8 | 09:00 | 2.50 | Y | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 07:00 | 9.30 | Y | | | | | | | | | | | |
| 11 | 07:00 | 8.75 | Y | 2.33 | 7.2 | | | | | | | | >5.6 | |
| 12 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 14 | 07:00 | 8.00 | Y | | 7.3 | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 18 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 19 | 07:00 | 9.00 | Y | 3.01 | 7.1 | 8.2 | <5.0 | | | | | | | |
| 20 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 21 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 25 | 07:00 | 9.00 | Y | 2.55 | 7.0 | | | | | | | | | |
| 26 | 07:10 | 4.00 | Y | | | | | | | | | | | |
| 27 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 28 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 2.56 | | 5.8 | 0.0 | 1.19 | 0 | 0 | 0.018 | 0.031 | >5.6 | |
| Maximum | | | | 3.01 | 7.3 | 8.2 | <5.0 | 1.19 | <0.05 | <10 | 0.018 | 0.031 | >5.6 | |
| Minimum | | | | 2.33 | 7.0 | 3.4 | <5.0 | 1.19 | <0.05 | <10 | 0.018 | 0.031 | >5.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month January | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2) Tritest
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 25.7 | | | 0 | 0 | | | | | | | | |
| 2 | 183.6 | 27.4 | | | 0 | 0 | | | | | | | | |
| 3 | 183.6 | 26.7 | | | 0 | 0 | | | | | | | | |
| 4 | 183.6 | 27.3 | | | 0 | 0 | | | | | | | | |
| 5 | 183.6 | 25.2 | | <10 | 0 | 0 | 7.6 | | | | | | | |
| 6 | 183.6 | 28.4 | | | 0 | 0 | | | | | | | | |
| 7 | 183.6 | 28.6 | | | 0 | 0 | | | | | | | | |
| 8 | 183.6 | 29.9 | | | 0 | 0 | | | | | | | | |
| 9 | 183.6 | 29.0 | | | 0 | 0 | | | | | | | | |
| 10 | 183.6 | 31.2 | | | 0 | 0 | | | | | | | | |
| 11 | 183.6 | 29.9 | | | 0 | 0 | 7.7 | | | | | | | |
| 12 | 183.6 | 30.0 | | | 0 | 0 | | | | | | | | |
| 13 | 183.6 | 28.6 | | | 0 | 0 | | | | | | | | |
| 14 | 183.6 | 27.7 | | | 0 | 0 | | | | | | | | |
| 15 | 183.6 | 28.8 | | | 0 | 0 | | | | | | | | |
| 16 | 183.6 | 30.3 | | | 0 | 0 | | | | | | | | |
| 17 | 183.6 | 32.2 | | | 0 | 0 | | | | | | | | |
| 18 | 183.6 | 31.7 | | | 0 | 0 | | | | | | | | |
| 19 | 183.6 | 31.6 | | | 0 | 0 | 7.4 | | | | | | | |
| 20 | 183.6 | 30.1 | | | 0 | 0 | | | | | | | | |
| 21 | 183.6 | 28.8 | | | 0 | 0 | | | | | | | | |
| 22 | 183.6 | 30.0 | | | 0 | 0 | | | | | | | | |
| 23 | 183.6 | 29.5 | | | 0 | 0 | | | | | | | | |
| 24 | 183.6 | 30.4 | | | 0 | 0 | | | | | | | | |
| 25 | 183.6 | 29.2 | | | 0 | 0 | 7.3 | | | | | | | |
| 26 | 183.6 | 27.3 | | | 0 | 0 | | | | | | | | |
| 27 | 183.7 | 27.7 | | | 0 | 0 | | | | | | | | |
| 28 | 183.6 | 31.7 | | | 0 | 0 | | | | | | | | |
| 29 | 183.6 | 30.9 | | | 0 | 0 | | | | | | | | |
| 30 | 183.6 | 28.7 | | | 0 | 0 | | | | | | | | |
| 31 | 183.6 | 30.1 | | | 0 | 0 | | | | | | | | |
| Average | 183.6 | 29.2 | | 0 | 0 | 0 | | | | | | | | |
| Maximum | 183.7 | 32.2 | | <10 | 0 | 0 | 7.7 | | | | | | | |
| Minimum | 183.6 | 25.2 | | <10 | 0 | 0 | 7.3 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | January | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
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| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month February | Year 2005

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) Tritest (2) Asheville Steam Electric Plant (3) Environmental Testing Solutions

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 9.00 | Y | 2.78 | 7.2 | 5.6 | <5.0 | | | <10 | 0.046 | 0.046 | | |
| 2 | 06:45 | 0.50 | Y | | | | | | | | | | | |
| 3 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 4 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 8 | 07:00 | 9.00 | Y | 2.33 | 6.8 | | | | | | | | | |
| 9 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 10 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 11 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 15 | 07:00 | 9.00 | Y | 2.33 | 6.9 | 3.2 | <5.0 | | | | | | | |
| 16 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 17 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 18 | 05:45 | 7.75 | B | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 22 | 07:00 | 9.00 | Y | 2.78 | 6.7 | 5.7 | | 0.61 | 0.09 | <10 | 0.014 | 0.040 | >5.6 | |
| 23 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 24 | 07:30 | 9.00 | Y | | | | | | | | | | | |
| 25 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | 06:45 | 9.00 | Y | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 2.56 | | 4.8 | 0.0 | 0.61 | 0 | 0 | 0.030 | 0.043 | >5.6 | |
| Maximum | | | | 2.78 | 7.2 | 5.7 | <5.0 | 0.61 | 0.09 | <10 | 0.046 | 0.046 | >5.6 | |
| Minimum | | | | 2.33 | 6.7 | 3.2 | <5.0 | 0.61 | 0.09 | <10 | 0.014 | 0.040 | >5.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month February | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 30.6 | | | 0 | 0 | 7.2 | | | | | | | |
| 2 | 183.6 | 31.2 | | | 0 | 0 | | | | | | | | |
| 3 | 183.6 | 30.9 | | | 0 | 0 | | | | | | | | |
| 4 | 183.6 | 30.5 | | | 0 | 0 | | | | | | | | |
| 5 | 183.6 | 29.4 | | | 0 | 0 | | | | | | | | |
| 6 | 183.6 | 28.2 | | | 0 | 0 | | | | | | | | |
| 7 | 183.6 | 30.3 | | | 0 | 0 | | | | | | | | |
| 8 | 183.6 | 30.2 | | | 0 | 0 | 7.2 | | | | | | | |
| 9 | 183.6 | 29.8 | | | 0 | 0 | | | | | | | | |
| 10 | 183.6 | 31.7 | | | 0 | 0 | | | | | | | | |
| 11 | 183.6 | 30.7 | | | 0 | 0 | | | | | | | | |
| 12 | 183.6 | 29.0 | | | 0 | 0 | | | | | | | | |
| 13 | 183.6 | 26.7 | | | 0 | 0 | | | | | | | | |
| 14 | 167.5 | 25.8 | | | 0 | 0 | | | | | | | | |
| 15 | 90.7 | 27.7 | | | 0 | 0 | 7.2 | | | | | | | |
| 16 | 148.7 | 24.6 | | | 0 | 0 | | | | | | | | |
| 17 | 183.6 | 28.4 | | | 0 | 0 | | | | | | | | |
| 18 | 183.6 | 30.1 | | | 0 | 0 | | | | | | | | |
| 19 | 190.8 | 31.0 | | | 0 | 0 | | | | | | | | |
| 20 | 183.6 | 28.6 | | | 0 | 0 | | | | | | | | |
| 21 | 183.6 | 28.8 | | | 0 | 0 | | | | | | | | |
| 22 | 183.6 | 27.8 | | | 0 | 0 | 7.5 | | | | | | | |
| 23 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | | |
| 24 | 183.6 | 30.8 | | | 0 | 0 | | | | | | | | |
| 25 | 183.6 | 32.1 | | | 0 | 0 | | | | | | | | |
| 26 | 183.6 | 33.3 | | | 0 | 0 | | | | | | | | |
| 27 | 183.6 | 33.2 | | | 0 | 0 | | | | | | | | |
| 28 | 196.8 | 32.4 | | | 0 | 0 | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 179.2 | 29.7 | | | 0 | 0 | | | | | | | | |
| Maximum | 196.8 | 33.3 | | | 0 | 0 | 7.5 | | | | | | | |
| Minimum | 90.7 | 24.6 | | | 0 | 0 | 7.2 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | February | Year | 2005 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Regina G. Elledge | Grade | P/C I | | Phone | (828) 687-5247 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| William A. Phipps | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| 200 CP&L Drive | Arden, N.C. 28704 | (828) 684-4286 | December 31, 2005 |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 005 Month Year
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Regina G. Elledge Grade P/C I Phone (828) 687-5247
Certified Laboratories: (1) (2)
Check If ORC has Changed Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2005

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) Tritest (2) Asheville Steam Electric Plant

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 2 | 07:00 | 9.00 | Y | 2.55 | 6.9 | | | | | | | | | |
| 3 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 4 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 07:00 | 9.00 | Y | 2.78 | 7.2 | 7.8 | <5.0 | | | 19 | 0.080 | 0.076 | | |
| 8 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 9 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 10 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 11 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 07:00 | 9.00 | Y | 2.33 | 7.4 | | | | | | | | | |
| 15 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 16 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 17 | 07:00 | 9.20 | Y | | | | | | | | | | | |
| 18 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | 06:40 | 10.00 | Y | 2.11 | 7.3 | 3.2 | <5.0 | | | | | | | |
| 22 | 06:40 | 9.50 | Y | | | | | | | | | | | |
| 23 | 07:00 | 6.75 | Y | | | | | | | | | | | |
| 24 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 25 | Holiday | | N | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | 07:00 | 5.00 | Y | | | | | | | | | | | |
| 29 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 30 | 07:00 | 9.00 | Y | 2.33 | 7.1 | | | | | | | | | |
| 31 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 2.42 | | 5.5 | 0.0 | | | 19 | 0.080 | 0.076 | | |
| Maximum | | | | 2.78 | 7.4 | 7.8 | <5.0 | | | 19 | 0.080 | 0.076 | | |
| Minimum | | | | 2.11 | 6.9 | 3.2 | <5.0 | | | 19 | 0.080 | 0.076 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | | **Discharge No.** 002 | **Month** March | **Year** 2005 |
| **Facility Name** | Asheville Steam Electric Plant | | **Class** P/C I | **County** Buncombe | |
| **Operator In Responsible Charge** | Regina G. Elledge | | **Grade** P/C I | **Phone** (828) 687-5247 | |
| **Certified Laboratories** | (1) Asheville Steam Electric Plant | | (2) | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | |

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **Date**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 240.7 | 30.0 | | | 0 | 0 | | | | | | | | |
| 2 | 240.7 | 28.7 | | | 0 | 0 | 7.3 | | | | | | | |
| 3 | 240.8 | 28.2 | | | 0 | 0 | | | | | | | | |
| 4 | 202.5 | 30.2 | | | 0 | 0 | | | | | | | | |
| 5 | 183.6 | 31.2 | | | 0 | 0 | | | | | | | | |
| 6 | 183.6 | 32.1 | | | 0 | 0 | | | | | | | | |
| 7 | 183.6 | 33.2 | | | 0 | 0 | 7.5 | | | | | | | |
| 8 | 183.6 | 31.5 | | | 0 | 0 | | | | | | | | |
| 9 | 183.6 | 32.7 | | | 0 | 0 | | | | | | | | |
| 10 | 183.6 | 32.7 | | | 0 | 0 | | | | | | | | |
| 11 | 183.6 | 32.9 | | | 0 | 0 | | | | | | | | |
| 12 | 183.6 | 30.9 | | | 0 | 0 | | | | | | | | |
| 13 | 183.6 | 28.5 | | | 0 | 0 | | | | | | | | |
| 14 | 183.6 | 34.2 | | | 0 | 0 | 7.3 | | | | | | | |
| 15 | 183.6 | 36.3 | | | 0 | 0 | | | | | | | | |
| 16 | 183.6 | 36.3 | | | 0 | 0 | | | | | | | | |
| 17 | 183.6 | 35.6 | | | 0 | 0 | | | | | | | | |
| 18 | 183.6 | 34.9 | | | 0 | 0 | | | | | | | | |
| 19 | 183.6 | 34.5 | | | 0 | 0 | | | | | | | | |
| 20 | 183.6 | 34.1 | | | 0 | 0 | | | | | | | | |
| 21 | 183.6 | 34.7 | | | 0 | 0 | 7.4 | | | | | | | |
| 22 | 183.6 | 35.6 | | | 0 | 0 | | | | | | | | |
| 23 | 183.6 | 35.1 | | | 0 | 0 | | | | | | | | |
| 24 | 183.6 | 34.3 | | | 0 | 0 | | | | | | | | |
| 25 | 183.6 | 34.4 | | | 0 | 0 | | | | | | | | |
| 26 | 196.2 | 32.4 | | | 0 | 0 | | | | | | | | |
| 27 | 240.7 | 30.5 | | | 0 | 0 | | | | | | | | |
| 28 | 240.7 | 31.4 | | | 0 | 0 | | | | | | | | |
| 29 | 240.7 | 31.1 | | | 0 | 0 | | | | | | | | |
| 30 | 233.1 | 33.0 | | | 0 | 0 | 7.2 | | | | | | | |
| 31 | 240.7 | 32.3 | | | 0 | 0 | | | | | | | | |
| Average | 199.1 | 32.7 | | | 0 | 0 | | | | | | | | |
| Maximum | 240.8 | 36.3 | | | 0 | 0 | 7.5 | | | | | | | |
| Minimum | 183.6 | 28.2 | | | 0 | 0 | 7.2 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **William A. Phipps** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | March | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month April | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) Tritest (2) Asheville Stm Elect Plant (3) Environmental Testing Solutions (4) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 07:00 | 9.00 | Y | 2.33 | 7.2 | 5.0 | <5.0 | 0.34 | <0.05 | <10 | 0.041 | 0.050 | | |
| 5 | 07:00 | 9.00 | Y | | 7.5 | | | | | | | | >5.6 | |
| 6 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 7 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 8 | 07:00 | 7.00 | Y | | 7.5 | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 12 | 07:00 | 11.00 | Y | | | | | | | | | | | |
| 13 | 01:00 | 13.50 | Y | 2.11 | 7.5 | | | | | | | | | |
| 14 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 15 | 06:30 | 5.50 | Y | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 19 | 06:30 | 9.50 | Y | 0.41 | 7.0 | 1.3 | <5.0 | | | | | | | |
| 20 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 21 | 06:42 | 10.30 | Y | | | | | | | | | | | |
| 22 | 06:00 | 6.50 | B | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | 06:30 | 5.50 | Y | 2.11 | 7.2 | | | | | | | | | |
| 26 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 27 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 28 | 06:42 | 9.30 | Y | | | | | | | | | | | |
| 29 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 1.74 | | 3.2 | 0.0 | 0.34 | 0 | 0 | 0.041 | 0.050 | >5.6 | |
| Maximum | | | | 2.33 | 7.5 | 5.0 | <5.0 | 0.34 | <0.05 | <10 | 0.041 | 0.050 | >5.6 | |
| Minimum | | | | 0.41 | 7.0 | 1.3 | <5.0 | 0.34 | <0.05 | <10 | 0.041 | 0.050 | >5.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements [XXXX]

All monitoring data and sampling frequencies do NOT meet permit requirements [ ]

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | | **Discharge No.** 002 | **Month** April | **Year** 2005 |
| **Facility Name** | Asheville Steam Electric Plant | | **Class** P/C I | **County** Buncombe | |
| **Operator In Responsible Charge** | Regina G. Elledge | | **Grade** P/C I | **Phone** (828) 687-5247 | |
| **Certified Laboratories** | (1) Asheville Steam Electric Plant | | (2) TRITEST | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | |

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **Date**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 282.3 | 30.4 | | | 0 | 0 | | | | | | | | |
| 2 | 305.5 | 29.5 | | | 0 | 0 | | | | | | | | |
| 3 | 292.4 | 29.0 | | | 0 | 0 | | | | | | | | |
| 4 | 293.5 | 29.8 | | <10 | 0 | 0 | 7.4 | | | | | | | |
| 5 | 305.5 | 30.2 | | | 0 | 0 | | | | | | | | |
| 6 | 291.6 | 31.2 | | | 0 | 0 | | | | | | | | |
| 7 | 258.2 | 32.5 | | | 0 | 0 | | | | | | | | |
| 8 | 255.0 | 32.4 | | | 0 | 0 | | | | | | | | |
| 9 | 240.7 | 33.9 | | | 0 | 0 | | | | | | | | |
| 10 | 240.7 | 30.2 | | | 0 | 0 | | | | | | | | |
| 11 | 228.3 | 32.6 | | | 0 | 0 | | | | | | | | |
| 12 | 240.7 | 32.3 | | | 0 | 0 | | | | | | | | |
| 13 | 240.7 | 32.7 | | <10 | 0 | 0 | 7.2 | | | | | | | |
| 14 | 240.7 | 32.5 | | | 0 | 0 | | | | | | | | |
| 15 | 240.7 | 31.4 | | | 0 | 0 | | | | | | | | |
| 16 | 223.7 | 29.5 | | | 0 | 0 | | | | | | | | |
| 17 | 176.6 | 30.9 | | | 0 | 0 | | | | | | | | |
| 18 | 150.0 | 32.3 | | | 0 | 0 | | | | | | | | |
| 19 | 150.0 | 32.2 | | | 0 | 0 | 7.5 | | | | | | | |
| 20 | 150.0 | 33.3 | | | 0 | 0 | | | | | | | | |
| 21 | 150.0 | 32.4 | | | 0 | 0 | | | | | | | | |
| 22 | 204.4 | 30.9 | | | 0 | 0 | | | | | | | | |
| 23 | 240.7 | 29.5 | | | 0 | 0 | | | | | | | | |
| 24 | 240.7 | 30.8 | | | 0 | 0 | | | | | | | | |
| 25 | 249.4 | 33.8 | | | 0 | 0 | 7.5 | | | | | | | |
| 26 | 305.5 | 30.0 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 30.2 | 50 | | 80 | 104 | | | | | | | | |
| 28 | 305.5 | 30.5 | 40 | | 120 | 120 | | | | | | | | |
| 29 | 305.5 | 30.2 | | | 0 | 0 | | | | | | | | |
| 30 | 305.5 | 31.5 | | | 120 | 120 | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 247.3 | 31.3 | 45 | 0 | 11 | 11 | | | | | | | | |
| Maximum | 305.5 | 33.9 | 50 | <10 | 120 | 120 | 7.5 | | | | | | | |
| Minimum | 150.0 | 29.0 | 40 | <10 | 0 | 0 | 7.2 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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| | | |
|---|---|---|
| **William A. Phipps** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005** |
| Permittee Address | Phone Number | Permit Exp. Date |

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# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | April | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
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| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
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| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2005

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs (2) Asheville Steam Elect Plant

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 3 | 06:00 | 9.50 | B | | | | | | | | | | | |
| 4 | 06:00 | 10.50 | B | 1.51 | 7.4 | | | | | | | | | |
| 5 | 06:00 | 9.50 | B | | | | | | | | | | | |
| 6 | 06:30 | 7.50 | B | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 10 | 07:00 | 9.30 | Y | 1.91 | 7.1 | <4.0 | <5.0 | | | 3.2 | 0.036 | 0.050 | | |
| 11 | 07:00 | 9.20 | Y | | | | | | | | | | | |
| 12 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | 07:00 | 9.00 | Y | 1.91 | 6.3 | | | | | | | | | |
| 17 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 18 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 19 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 20 | 06:15 | 9.00 | Y | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | 07:00 | 9.30 | Y | | | | | | | | | | | |
| 24 | 07:00 | 9.00 | Y | 1.91 | 6.6 | <3.3 | <5.0 | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | 06:36 | 6.90 | Y | | | | | | | | | | | |
| 27 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | Holiday | | N | | | | | | | | | | | |
| 31 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 1.81 | | 0.0 | 0.0 | | | 3.2 | 0.036 | 0.050 | | |
| Maximum | | | | 1.91 | 7.4 | <4.0 | <5.0 | | | 3.2 | 0.036 | 0.050 | | |
| Minimum | | | | 1.51 | 6.3 | <3.3 | <5.0 | | | 3.2 | 0.036 | 0.050 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | | **Discharge No.** 002 | **Month** May | **Year** 2005 |
| **Facility Name** | Asheville Steam Electric Plant | | **Class** P/C I | **County** Buncombe | |
| **Operator In Responsible Charge** | Regina G. Elledge | | **Grade** P/C I | **Phone** (828) 687-5247 | |
| **Certified Laboratories** | (1) Asheville Steam Electric Plant | | (2) | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | |

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **Date**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 30.5 | | | 120 | 120 | | | | | | | | |
| 2 | 305.5 | 32.3 | 80 | | 120 | 120 | | | | | | | | |
| 3 | 305.5 | 31.9 | 20 | | 100 | 100 | | | | | | | | |
| 4 | 305.5 | 31.7 | 40 | | 120 | 120 | 7.3 | | | | | | | |
| 5 | 305.5 | 31.9 | 20 | | 120 | 120 | | | | | | | | |
| 6 | 299.8 | 32.5 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 33.6 | | | 100 | 100 | | | | | | | | |
| 8 | 305.5 | 33.0 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 32.8 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 33.5 | | | 0 | 0 | 7.6 | | | | | | | |
| 11 | 305.5 | 34.6 | | | 0 | 0 | | | | | | | | |
| 12 | 305.5 | 35.0 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 35.1 | | | 0 | 0 | | | | | | | | |
| 14 | 305.5 | 34.7 | | | 0 | 0 | | | | | | | | |
| 15 | 305.5 | 34.6 | | | 0 | 0 | | | | | | | | |
| 16 | 292.9 | 35.2 | | | 0 | 0 | 7.4 | | | | | | | |
| 17 | 305.5 | 34.8 | | | 0 | 0 | | | | | | | | |
| 18 | 305.5 | 34.7 | | | 0 | 0 | | | | | | | | |
| 19 | 305.5 | 35.5 | | | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 36.7 | | | 0 | 0 | | | | | | | | |
| 21 | 214.9 | 34.1 | | | 0 | 0 | | | | | | | | |
| 22 | 156.8 | 33.2 | | | 0 | 0 | | | | | | | | |
| 23 | 287.4 | 35.5 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 34.5 | | | 0 | 0 | 7.4 | | | | | | | |
| 25 | 305.5 | 34.4 | | | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 34.4 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 35.7 | | | 0 | 0 | | | | | | | | |
| 28 | 305.5 | 35.0 | | | 0 | 0 | | | | | | | | |
| 29 | 305.5 | 34.2 | | | 0 | 0 | | | | | | | | |
| 30 | 305.5 | 33.3 | | | 0 | 0 | | | | | | | | |
| 31 | 305.5 | 34.6 | | | 0 | 0 | | | | | | | | |
| Average | 296.6 | 34.0 | 40 | | 22 | 22 | | | | | | | | |
| Maximum | 305.5 | 36.7 | 80 | | 120 | 120 | 7.6 | | | | | | | |
| Minimum | 156.8 | 30.5 | 20 | | 0 | 0 | 7.3 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

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| | | |
|---|---|---|
| **William A. Phipps** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | May | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
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| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

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| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

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(x)
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Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
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| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month June | Year 2005

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:48 | 9.20 | Y | | | | | | | | | | | |
| 2 | 07:00 | 9.50 | Y | 2.33 | 7.0 | | | | | | | | | |
| 3 | 06:42 | 8.30 | Y | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 7 | 06:30 | 8.00 | B | 1.70 | 6.6 | <3.3 | <5.0 | | | <2.0 | 0.084 | 0.052 | | |
| 8 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 9 | 06:30 | 4.50 | B | | | | | | | | | | | |
| 10 | 06:30 | 6.50 | B | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | 06:30 | 9.50 | Y | 5.10 | 7.1 | | | | | | | | | |
| 14 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 15 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 16 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 17 | 07:00 | 7.50 | Y | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 21 | 07:00 | 9.50 | Y | 2.33 | 6.7 | 4.7 | <5.0 | | | | | | | |
| 22 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 23 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 24 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | 07:00 | 9.00 | Y | 7.86 | 7.4 | | | | | | | | | |
| 28 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 29 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 30 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.86 | | 2.4 | 0.0 | | | 0.0 | 0.084 | 0.052 | | |
| Maximum | | | | 7.86 | 7.4 | 4.7 | <5.0 | | | <2.0 | 0.084 | 0.052 | | |
| Minimum | | | | 1.70 | 6.6 | <3.3 | <5.0 | | | <2.0 | 0.084 | 0.052 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month June | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 290.3 | 34.1 | | | 0 | 0 | | | | | | | | |
| 2 | 285.6 | 33.5 | | | 0 | 0 | 7.5 | | | | | | | |
| 3 | 294.8 | 33.1 | | | 0 | 0 | | | | | | | | |
| 4 | 305.5 | 34.4 | | | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 35.6 | | | 0 | 0 | | | | | | | | |
| 6 | 305.5 | 36.7 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 37.6 | | | 0 | 0 | 6.9 | | | | | | | |
| 8 | 305.5 | 37.8 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 38.7 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 38.8 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 38.0 | | | 0 | 0 | | | | | | | | |
| 12 | 305.5 | 38.2 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 38.6 | | | 0 | 0 | 7.3 | | | | | | | |
| 14 | 305.5 | 39.2 | | | 0 | 0 | | | | | | | | |
| 15 | 305.5 | 40.5 | | | 0 | 0 | | | | | | | | |
| 16 | 305.5 | 39.2 | | | 0 | 0 | | | | | | | | |
| 17 | 305.5 | 38.7 | | | 0 | 0 | | | | | | | | |
| 18 | 305.5 | 38.5 | | | 0 | 0 | | | | | | | | |
| 19 | 305.5 | 38.2 | | | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 38.3 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 37.9 | | | 0 | 0 | 7.2 | | | | | | | |
| 22 | 305.5 | 40.0 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 40.2 | | | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 38.7 | | | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | | |
| 27 | 285.9 | 40.5 | | | 0 | 0 | 7.6 | | | | | | | |
| 28 | 185.7 | 39.8 | | | 0 | 0 | | | | | | | | |
| 29 | 155.5 | 41.4 | | | 0 | 0 | | | | | | | | |
| 30 | 155.5 | 40.7 | | | 0 | 0 | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 289.3 | 38.3 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 41.4 | | | 0 | 0 | 7.6 | | | | | | | |
| Minimum | 155.5 | 33.1 | | | 0 | 0 | 6.9 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | June | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
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| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
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| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

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All monitoring data and sampling frequencies do NOT meet permit requirements

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William A. Phipps
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2005
Permit Exp. Date

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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month July | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant (3) Environmental Testing Solutions
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 08:30 | 8.00 | Y | | | | | | | | | | | |
| 5 | 07:00 | 9.00 | Y | 2.11 | 7.2 | <3.3 | <5.0 | 2.5 | <0.1 | 2.5 | 0.11 | 0.074 | >5.6 | |
| 6 | 07:00 | 4.00 | Y | | | | | | | | | | | |
| 7 | 07:00 | 9.30 | Y | | | | | | | | | | | |
| 8 | 07:00 | 6.00 | Y | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 06:30 | 9.50 | Y | 2.33 | 7.2 | | | | | | | | | |
| 12 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 06:00 | 8.50 | B | | | | | | | | | | | |
| 14 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 15 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | 07:10 | 9.00 | Y | 2.11 | 6.8 | 9.7 | <5.0 | | | | | | | |
| 19 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 20 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 21 | 05:30 | 5.50 | B | | | | | | | | | | | |
| 22 | 06:30 | 11.50 | B | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | 06:15 | 7.30 | B | | | | | | | | | | | |
| 26 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 27 | 06:30 | 8.00 | B | 2.78 | 7.1 | | | | | | | | | |
| 28 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 29 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | N | | | | | | | | | | | |
| Average | | | | 2.33 | | 4.8 | 0.0 | 2.5 | 0 | 2.5 | 0.11 | 0.074 | >5.6 | |
| Maximum | | | | 2.78 | 7.2 | 9.7 | <5.0 | 2.5 | <0.1 | 2.5 | 0.11 | 0.074 | >5.6 | |
| Minimum | | | | 2.11 | 6.8 | <3.3 | <5.0 | 2.5 | <0.1 | 2.5 | 0.11 | 0.074 | >5.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements [XXXX]

All monitoring data and sampling frequencies do NOT meet permit requirements [ ]

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | | **Discharge No.** 002 | **Month** July | **Year** 2005 |
| **Facility Name** | Asheville Steam Electric Plant | | **Class** P/C I | | **County** Buncombe |
| **Operator In Responsible Charge** | Regina G. Elledge | | **Grade** P/C I | | **Phone** (828) 687-5247 |
| **Certified Laboratories** | (1) Asheville Steam Electric Plant | | (2) PACE Labs | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | |

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **Date**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 155.5 | 40.2 | | | 0 | 0 | | | | | | | | |
| 2 | 210.7 | 38.1 | | | 0 | 0 | | | | | | | | |
| 3 | 305.5 | 35.9 | | | 0 | 0 | | | | | | | | |
| 4 | 294.5 | 37.1 | | | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 40.4 | | 2.3 | 0 | 0 | 7.6 | | | | | | | |
| 6 | 305.5 | 40.2 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 41.1 | | | 0 | 0 | | | | | | | | |
| 8 | 305.5 | 39.6 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 38.4 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 39.0 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 40.4 | | | 0 | 0 | 7.6 | | | | | | | |
| 12 | 305.5 | 41.3 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 40.2 | | | 0 | 0 | | | | | | | | |
| 14 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | | |
| 15 | 305.5 | 39.3 | | | 0 | 0 | | | | | | | | |
| 16 | 305.5 | 39.6 | | | 0 | 0 | | | | | | | | |
| 17 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | | |
| 18 | 305.5 | 40.4 | | | 0 | 0 | 7.4 | | | | | | | |
| 19 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 41.0 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 43.0 | | | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 42.0 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 42.4 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 42.3 | | | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 43.3 | | | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 43.8 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 45.1 | | | 0 | 0 | 7.4 | | | | | | | |
| 28 | 305.5 | 45.9 | | | 0 | 0 | | | | | | | | |
| 29 | 305.5 | 45.4 | | | 0 | 0 | | | | | | | | |
| 30 | 305.5 | 44.2 | | | 0 | 0 | | | | | | | | |
| 31 | 305.5 | 42.7 | | | 0 | 0 | | | | | | | | |
| Average | 297.2 | 41.1 | | 2.3 | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 45.9 | | 2.3 | 0 | 0 | 7.6 | | | | | | | |
| Minimum | 155.5 | 35.9 | | 2.3 | 0 | 0 | 7.4 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **William A. Phipps** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | July | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
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| 18 | | | | | | | | | | | | | | |
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| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 001 **Month** August **Year** 2005
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Regina G. Elledge **Grade** P/C I **Phone** (828) 687-5247
**Certified Laboratories:** (1) PACE Labs (2) Asheville Steam Electric Plant
**Check If ORC has Changed** **Person (s) Collecting Samples:** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 2 | 07:00 | 9.00 | Y | 2.33 | 7.0 | <5.0 | <5.0 | | | <2 | 0.054 | 0.068 | | |
| 3 | 06:00 | 4.00 | Y | | | | | | | | | | | |
| 4 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 5 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 05:00 | 11.70 | Y | | | | | | | | | | | |
| 9 | 06:00 | 10.50 | Y | 3.01 | 7.0 | | | | | | | | | |
| 10 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 11 | 06:00 | 10.50 | Y | | | | | | | | | | | |
| 12 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 16 | 06:30 | 8.00 | B | 2.33 | 6.7 | 4.4 | <5.0 | | | | | | | |
| 17 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 18 | 06:30 | 8.50 | B | | | | | | | | | | | |
| 19 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 23 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 24 | 10:00 | 6.00 | Y | 1.91 | 6.8 | | | | | | | | | |
| 25 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 26 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 30 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 31 | 07:00 | 9.00 | Y | 2.33 | 6.6 | | | | | | | | | |
| **Average** | | | | 2.38 | | 2.2 | 0 | | | 0 | 0.054 | 0.068 | | |
| **Maximum** | | | | 3.01 | 7.0 | 4.4 | <5.0 | | | <2 | 0.054 | 0.068 | | |
| **Minimum** | | | | 1.91 | 6.6 | <5.0 | <5.0 | | | <2 | 0.054 | 0.068 | | |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G | |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive** **Arden, N.C.** **28704** | **(828)684-4286** | **December 31, 2005**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 002 **Month** August **Year** 2005
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Regina G. Elledge **Grade** P/C I **Phone** (828) 687-5247
**Certified Laboratories** (1) Asheville Steam Electric Plant
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **Date**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 44.0 | | | 0 | 0 | | | | | | | | |
| 2 | 305.5 | 44.1 | | | 0 | 0 | 7.5 | | | | | | | |
| 3 | 305.5 | 44.8 | | | 0 | 0 | | | | | | | | |
| 4 | 305.5 | 44.9 | | | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 44.9 | | | 0 | 0 | | | | | | | | |
| 6 | 305.5 | 45.6 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 45.0 | | | 0 | 0 | | | | | | | | |
| 8 | 305.5 | 45.3 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 45.0 | | | 0 | 0 | 7.4 | | | | | | | |
| 10 | 305.5 | 44.9 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 45.0 | | | 0 | 0 | | | | | | | | |
| 12 | 305.5 | 44.7 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 45.1 | | | 0 | 0 | | | | | | | | |
| 14 | 305.5 | 44.4 | | | 0 | 0 | | | | | | | | |
| 15 | 305.5 | 44.8 | | | 0 | 0 | | | | | | | | |
| 16 | 305.5 | 45.0 | | | 0 | 0 | 7.2 | | | | | | | |
| 17 | 305.5 | 43.6 | | | 0 | 0 | | | | | | | | |
| 18 | 305.5 | 43.8 | | | 0 | 0 | | | | | | | | |
| 19 | 305.5 | 43.8 | | | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 44.0 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 44.0 | | | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 43.0 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 43.2 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 42.9 | | | 0 | 0 | 7.5 | | | | | | | |
| 25 | 305.5 | 43.3 | | | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 42.9 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 42.6 | | | 0 | 0 | | | | | | | | |
| 28 | 305.5 | 43.0 | | | 0 | 0 | | | | | | | | |
| 29 | 305.5 | 43.6 | | | 0 | 0 | | | | | | | | |
| 30 | 305.5 | 43.7 | | | 0 | 0 | | | | | | | | |
| 31 | 305.5 | 42.9 | | | 0 | 0 | 7.4 | | | | | | | |
| Average | 305.5 | 44.1 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 45.6 | | | 0 | 0 | 7.5 | | | | | | | |
| Minimum | 305.5 | 42.6 | | | 0 | 0 | 7.2 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) Signature of Permittee** **Date**

**200 CP&L Drive** **Arden, N.C.** **28704** **(828)684-4286** **December 31, 2005**
Permittee Address Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | August | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | | | | | |
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| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month September | Year 2005

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 09:00 | 7.00 | Y | | | | | | | | | | | |
| 2 | 06:15 | 8.25 | B | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | Holiday | | N | | | | | | | | | | | |
| 6 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 7 | 07:00 | 9.00 | Y | 2.78 | 6.7 | <2 | <5 | | | <2 | 0.036 | 0.070 | | |
| 8 | 06:30 | 10.50 | Y | | | | | | | | | | | |
| 9 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 06:30 | 8.50 | Y | | | | | | | | | | | |
| 14 | 07:00 | 8.00 | Y | 2.33 | 6.7 | | | | | | | | | |
| 15 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 16 | 07:00 | 7.50 | Y | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 07:00 | 9.00 | Y | 2.55 | 6.4 | 1.3 | <5 | | | | | | | |
| 20 | 15:00 | 4.00 | Y | | | | | | | | | | | |
| 21 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 22 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 23 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 27 | 07:00 | 9.00 | Y | 2.78 | 7.0 | | | | | | | | | |
| 28 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 29 | 06:45 | 11.00 | Y | | | | | | | | | | | |
| 30 | 06:00 | 4.00 | B | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 2.61 | | 0.6 | 0 | | | 0 | 0.036 | 0.070 | | |
| Maximum | | | | 2.78 | 7.0 | 1.3 | <5.0 | | | <2 | 0.036 | 0.070 | | |
| Minimum | | | | 2.33 | 6.4 | <2 | <5.0 | | | <2 | 0.036 | 0.070 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month September | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 41.4 | | | 0 | 0 | | | | | | | | |
| 2 | 305.5 | 41.0 | | | 0 | 0 | | | | | | | | |
| 3 | 305.5 | 41.0 | | | 0 | 0 | | | | | | | | |
| 4 | 305.1 | 40.6 | | | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 39.7 | | | 0 | 0 | | | | | | | | |
| 6 | 305.5 | 41.2 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 40.3 | | | 0 | 0 | 7.8 | | | | | | | |
| 8 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 40.7 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 39.5 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 39.7 | | | 0 | 0 | | | | | | | | |
| 12 | 305.5 | 40.7 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 41.0 | | | 0 | 0 | | | | | | | | |
| 14 | 305.5 | 40.9 | | | 0 | 0 | 8.7 | | | | | | | |
| 15 | 305.5 | 40.9 | | | 0 | 0 | | | | | | | | |
| 16 | 305.5 | 41.3 | | | 0 | 0 | | | | | | | | |
| 17 | 305.5 | 42.2 | | | 0 | 0 | | | | | | | | |
| 18 | 303.5 | 41.6 | | | 0 | 0 | | | | | | | | |
| 19 | 297.7 | 42.3 | | | 0 | 0 | 9.1*** | | | | | | | |
| 20 | 305.5 | 42.6 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 42.2 | | | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 42.6 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 42.3 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 42.4 | | | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 39.8 | | | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 41.2 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 41.2 | | | 0 | 0 | 9.0*** | | | | | | | |
| 28 | 305.5 | 41.0 | | | 0 | 0 | | | | | | | | |
| 29 | 305.5 | 41.4 | | | 0 | 0 | | | | | | | | |
| 30 | 305.4 | 41.2 | | | 0 | 0 | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 305.2 | 41.2 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 42.6 | | | 0 | 0 | 9.1 | | | | | | | |
| Minimum | 297.7 | 39.5 | | | 0 | 0 | 7.8 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
***Algae Bloom in Lake Julian.
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | September | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
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| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
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| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month October | Year 2005

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant (3) Environmental Testing Solutions

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 07:00 | 9.00 | B | | | | | | | | | | | |
| 4 | 07:00 | 9.00 | B | | | | | | | | | | | |
| 5 | 07:00 | 9.00 | B | 1.70 | 6.5 | | | | | | | | | |
| 6 | 07:00 | 9.00 | B | | | | | | | | | | | |
| 7 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 8 | 08:00 | 8.00 | Y | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 06:30 | 10.50 | Y | | | | | | | | | | | |
| 11 | 06:00 | 10.00 | Y | 2.55 | 7.4 | 6.0 | <5 | 4.7 | <0.1 | <2 | 0.076 | 0.075 | >5.6 | |
| 12 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 13 | 06:00 | 10.50 | Y | | | | | | | | | | | |
| 14 | 06:00 | 9.00 | Y | | 7.2 | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 18 | 06:30 | 8.50 | Y | 2.55 | 7.3 | | | | | | | | | |
| 19 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 20 | 06:00 | 11.00 | Y | | | | | | | | | | | |
| 21 | 06:40 | 8.50 | Y | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 06:30 | 10.50 | Y | | | | | | | | | | | |
| 25 | 07:00 | 9.20 | Y | | | | | | | | | | | |
| 26 | 06:30 | 10.30 | Y | 2.55 | 7.0 | 8.4 | <5 | | | | | | | |
| 27 | 07:00 | 10.30 | Y | | | | | | | | | | | |
| 28 | 07:10 | 8.00 | Y | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | 06:30 | 5.50 | Y | | | | | | | | | | | |
| Average | | | | 2.34 | | 7.2 | 0 | 4.7 | 0 | 0 | 0.076 | 0.075 | >5.6 | |
| Maximum | | | | 2.55 | 7.4 | 8.4 | <5.0 | 4.7 | <0.1 | <2 | 0.076 | 0.075 | >5.6 | |
| Minimum | | | | 1.70 | 6.5 | 6.0 | <5.0 | 4.7 | <0.1 | <2 | 0.076 | 0.075 | >5.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | | **Discharge No.** 002 | **Month** October | **Year** 2005 |
| **Facility Name** | Asheville Steam Electric Plant | | **Class** P/C I | | **County** Buncombe |
| **Operator In Responsible Charge** | Regina G. Elledge | | **Grade** P/C I | | **Phone** (828) 687-5247 |
| **Certified Laboratories** | (1) Asheville Steam Electric Plant | | (2) PACE Labs | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | |

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **Date**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 211.3 | 37.2 | | | 0 | 0 | | | | | | | | |
| 2 | 264.1 | 37.5 | | | 0 | 0 | | | | | | | | |
| 3 | 305.5 | 39.6 | | | 0 | 0 | | | | | | | | |
| 4 | 305.5 | 40.2 | | | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 40.5 | | | 0 | 0 | 8.9 | | | | | | | |
| 6 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 41.0 | | | 0 | 0 | | | | | | | | |
| 8 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 39.0 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 39.8 | | <2 | 0 | 0 | 8.7 | | | | | | | |
| 12 | 305.5 | 40.2 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 38.9 | | | 0 | 0 | | | | | | | | |
| 14 | 305.5 | 39.1 | | | 0 | 0 | | | | | | | | |
| 15 | 305.5 | 38.2 | | | 0 | 0 | | | | | | | | |
| 16 | 305.5 | 36.0 | | | 0 | 0 | | | | | | | | |
| 17 | 305.5 | 36.4 | | | 0 | 0 | | | | | | | | |
| 18 | 305.5 | 36.2 | | | 0 | 0 | 8.3 | | | | | | | |
| 19 | 305.5 | 36.8 | | | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 37.1 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 37.4 | | | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 36.0 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 32.4 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 34.8 | | | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 33.7 | | | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 32.9 | | | 0 | 0 | 7.6 | | | | | | | |
| 27 | 305.5 | 33.2 | | | 0 | 0 | | | | | | | | |
| 28 | 305.5 | 32.5 | | | 0 | 0 | | | | | | | | |
| 29 | 305.5 | 33.1 | | | 0 | 0 | | | | | | | | |
| 30 | 318.3 | 32.8 | | | 0 | 0 | | | | | | | | |
| 31 | 305.5 | 33.0 | | | 0 | 0 | | | | | | | | |
| Average | 301.6 | 37.0 | | 0 | 0 | 0 | | | | | | | | |
| Maximum | 318.3 | 41.0 | | <2 | 0 | 0 | 8.9 | | | | | | | |
| Minimum | 211.3 | 32.4 | | <2 | 0 | 0 | 7.6 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

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| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

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# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | October | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

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**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
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| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **William A. Phipps** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
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| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
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| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month November | Year 2005

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant (3)

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper ug/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 2 | 07:00 | 9.50 | Y | 2.11 | 6.7 | | | | | | | | | |
| 3 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 4 | 06:30 | 10.00 | Y | | | | | | | | | | | |
| 5 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 6 | 05:30 | 2.50 | Y | | | | | | | | | | | |
| 7 | 06:30 | 10.50 | Y | | | | | | | | | | | |
| 8 | 06:30 | 11.20 | Y | | | | | | | | | | | |
| 9 | 06:30 | 11.50 | Y | 1.51 | 6.5 | <3.3 | <5.0 | | | 4.7 | 0.014 | 0.018 | | |
| 10 | 06:30 | 12.50 | Y | | | | | | | | | | | |
| 11 | 06:00 | 13.25 | Y | | | | | | | | | | | |
| 12 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 06:10 | 11.50 | Y | 1.15 | 6.6 | | | | | | | | | |
| 15 | 06:30 | 11.50 | Y | | | | | | | | | | | |
| 16 | 17:45 | 6.25 | Y | | | | | | | | | | | |
| 17 | 00:00 | 12.25 | Y | | | | | | | | | | | |
| 18 | 00:00 | 12.25 | Y | | | | | | | | | | | |
| 19 | 00:00 | 12.25 | Y | | | | | | | | | | | |
| 20 | 00:00 | 12.25 | Y | | | | | | | | | | | |
| 21 | 00:00 | 6.00 | Y | | | | | | | | | | | |
| 22 | 05:45 | 12.25 | Y | | | | | | | | | | | |
| 23 | 05:45 | 11.75 | Y | | | | | | | | | | | |
| 24 | 11:30 | 2.00 | Y | | | | | | | | | | | |
| 25 | 12:30 | 4.00 | Y | 3.01 | 6.4 | | | | | | | | | |
| 26 | 09:00 | 8.00 | Y | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | 06:00 | 12.50 | Y | 3.25 | 7.4 | <2.0 | <5.0 | | | | | | | |
| 29 | 05:30 | 11.50 | Y | | | | | | | | | | | |
| 30 | 05:45 | 11.00 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 2.21 | | 0.0 | 0 | | | 4.7 | 0.014 | 0.018 | | |
| Maximum | | | | 3.25 | 7.4 | <3.3 | <5.0 | | | 4.7 | 0.014 | 0.018 | | |
| Minimum | | | | 1.15 | 6.4 | <2.0 | <5.0 | | | 4.7 | 0.014 | 0.018 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.4 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements [XXXX]

All monitoring data and sampling frequencies do NOT meet permit requirements [ ]

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**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2005**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month November | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper ug/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 32.3 | | | 0 | 0 | | | | | | | | |
| 2 | 305.5 | 32.3 | | | 0 | 0 | 7.6 | | | | | | | |
| 3 | 305.5 | 33.2 | | | 0 | 0 | | | | | | | | |
| 4 | 304.5 | 32.9 | | | 0 | 0 | | | | | | | | |
| 5 | 250.2 | 29.6 | | | 0 | 0 | | | | | | | | |
| 6 | 241.6 | 29.7 | | | 0 | 0 | | | | | | | | |
| 7 | 155.5 | 32.4 | | | 0 | 0 | | | | | | | | |
| 8 | 155.5 | 32.0 | | | 0 | 0 | | | | | | | | |
| 9 | 155.5 | 31.5 | | | 0 | 0 | 8.1 | | | | | | | |
| 10 | 155.5 | 31.2 | | | 0 | 0 | | | | | | | | |
| 11 | 155.5 | 31.7 | | | 0 | 0 | | | | | | | | |
| 12 | 155.5 | 30.2 | | | 0 | 0 | | | | | | | | |
| 13 | 155.5 | 28.1 | | | 0 | 0 | | | | | | | | |
| 14 | 155.5 | 29.3 | | | 0 | 0 | 8.0 | | | | | | | |
| 15 | 157.7 | 29.2 | | | 0 | 0 | | | | | | | | |
| 16 | 284.1 | 26.7 | | | 0 | 0 | | | | | | | | |
| 17 | 305.5 | 26.9 | | | 0 | 0 | | | | | | | | |
| 18 | 305.5 | 29.2 | | | 0 | 0 | | | | | | | | |
| 19 | 305.5 | 29.0 | | | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 27.9 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 28.3 | | | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 29.7 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 28.8 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 26.2 | | | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 26.9 | | | 0 | 0 | 7.1 | | | | | | | |
| 26 | 305.5 | 28.4 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 27.0 | | | 0 | 0 | | | | | | | | |
| 28 | 305.5 | 27.9 | | | 0 | 0 | 7.3 | | | | | | | |
| 29 | 305.5 | 26.9 | | | 0 | 0 | | | | | | | | |
| 30 | 305.5 | 27.7 | | | 0 | 0 | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 255.9 | 29.4 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 33.2 | | | 0 | 0 | 8.1 | | | | | | | |
| Minimum | 155.5 | 26.2 | | | 0 | 0 | 7.1 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | November | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
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| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

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| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
| Permittee Address | | Phone Number | Permit Exp. Date |

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month | Year
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

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North Carolina Division of Water Quality
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
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Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chlorides mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
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| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | There was no effluent discharged during the month. | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
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| Average | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2005

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 11.50 | Y | | | | | | | | | | | |
| 2 | 06:00 | 11.50 | Y | | | | | | | | | | | |
| 3 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | 06:00 | 10.50 | Y | | | | | | | | | | | |
| 6 | 06:30 | 10.25 | Y | | | | | | | | | | | |
| 7 | 06:00 | 10.20 | Y | | | | | | | | | | | |
| 8 | 06:00 | 11.30 | Y | 3.25 | 7.0 | 2.9 | <5.0 | | | <0.002 | 0.14 | 0.099 | | |
| 9 | 06:15 | 9.50 | Y | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 06:30 | 10.30 | Y | | | | | | | | | | | |
| 13 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 14 | 06:30 | 10.00 | Y | 2.78 | 7.1 | | | | | <0.002 | 0.15 | 0.108 | | |
| 15 | 09:30 | 6.50 | Y | | | | | | | | | | | |
| 16 | 06:45 | 8.00 | Y | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 20 | 06:00 | 11.50 | Y | 3.75 | 6.8 | <1.8 | <5.0 | | | <0.002 | 0.13 | 0.120 | | |
| 21 | 06:00 | 11.20 | Y | | | | | | | | | | | |
| 22 | 06:30 | 10.70 | Y | | | | | | | | | | | |
| 23 | Holiday | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | Holiday | | N | | | | | | | | | | | |
| 27 | 06:42 | 9.30 | Y | | | | | | | | | | | |
| 28 | 07:00 | 9.00 | Y | 3.25 | 6.8 | | | | | <0.002 | 0.11 | 0.130 | | |
| 29 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 30 | 06:00 | 9.20 | Y | | | | | | | | | | | |
| 31 | 07:00 | 8.50 | Y | | | | | | | | | | | |
| Average | | | | 3.26 | | 1.4 | 0 | | | 0 | 0.13 | 0.114 | | |
| Maximum | | | | 3.75 | 7.1 | 2.9 | <5.0 | | | <0.002 | 0.15 | 0.130 | | |
| Minimum | | | | 2.78 | 6.8 | <1.8 | <5.0 | | | <0.002 | 0.11 | 0.099 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

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William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | <0.001 | <0.001 | 35 | <0.002 | 1.3 | <0.005 | 0.13 | 0.014 | <0.002 | <0.010 | 0.016 | 0.022 | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | <0.001 | <0.001 | 84 | <0.002 | 1.1 | <0.005 | 0.13 | 0.017 | <0.002 | <0.010 | 0.072 | 0.091 | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | <0.001 | <0.001 | 91 | <0.002 | 1.1 | <0.005 | 0.097 | 0.019 | <0.002 | <0.010 | 0.038 | 0.132 | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | <0.001 | <0.001 | 150 | <0.002 | 1.1 | <0.005 | 0.11 | 0.017 | <0.002 | <0.010 | 0.020 | 0.095 | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0 | 90 | 0 | 1.2 | 0 | 0.117 | 0.017 | 0 | 0 | 0.036 | 0.085 | | | |
| Maximum | <0.001 | <0.001 | 150 | <0.002 | 1.3 | <0.005 | 0.130 | 0.019 | <0.002 | <0.010 | 0.072 | 0.132 | | | |
| Minimum | <0.001 | <0.001 | 35 | <0.002 | 1.1 | <0.005 | 0.097 | 0.014 | <0.002 | <0.010 | 0.016 | 0.022 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month December | Year 2005
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 01042 Total Copper mg/L | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | 00400 pH Units | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 28.4 | | | 0 | 0 | | | | | | | | |
| 2 | 305.5 | 28.6 | | | 0 | 0 | | | | | | | | |
| 3 | 305.5 | 28.4 | | | 0 | 0 | | | | | | | | |
| 4 | 248.0 | 22.6 | | | 0 | 0 | | | | | | | | |
| 5 | 240.7 | 24.5 | | | 0 | 0 | | | | | | | | |
| 6 | 240.7 | 24.1 | | | 0 | 0 | | | | | | | | |
| 7 | 252.9 | 24.4 | | | 0 | 0 | | | | | | | | |
| 8 | 254.3 | 23.8 | | | 0 | 0 | 7.6 | | | | | | | |
| 9 | 302.4 | 23.9 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 26.6 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 26.1 | | | 0 | 0 | | | | | | | | |
| 12 | 305.5 | 25.7 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 26.2 | | | 0 | 0 | | | | | | | | |
| 14 | 293.8 | 27.9 | | | 0 | 0 | 7.4 | | | | | | | |
| 15 | 248.4 | 29.5 | | | 0 | 0 | | | | | | | | |
| 16 | 248.5 | 28.9 | | | 0 | 0 | | | | | | | | |
| 17 | 248.4 | 28.8 | | | 0 | 0 | | | | | | | | |
| 18 | 248.4 | 27.8 | | | 0 | 0 | | | | | | | | |
| 19 | 248.4 | 29.6 | | | 0 | 0 | | | | | | | | |
| 20 | 248.4 | 29.6 | | | 0 | 0 | 7.1 | | | | | | | |
| 21 | 248.4 | 29.9 | | | 0 | 0 | | | | | | | | |
| 22 | 248.4 | 29.9 | | | 0 | 0 | | | | | | | | |
| 23 | 248.4 | 30.1 | | | 0 | 0 | | | | | | | | |
| 24 | 248.4 | 26.8 | | | 0 | 0 | | | | | | | | |
| 25 | 248.4 | 25.0 | | | 0 | 0 | | | | | | | | |
| 26 | 248.4 | 26.8 | | | 0 | 0 | | | | | | | | |
| 27 | 248.4 | 28.3 | | | 0 | 0 | | | | | | | | |
| 28 | 248.4 | 28.9 | | | 0 | 0 | 7.1 | | | | | | | |
| 29 | 248.4 | 28.6 | | | 0 | 0 | | | | | | | | |
| 30 | 248.4 | 28.7 | | | 0 | 0 | | | | | | | | |
| 31 | 248.4 | 28.6 | | | 0 | 0 | | | | | | | | |
| Average | 264.3 | 27.3 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 30.1 | | | 0 | 0 | 7.6 | | | | | | | |
| Minimum | 240.7 | 22.6 | | | 0 | 0 | 7.1 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | G | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2005
Permittee Address | Phone Number | Permit Exp. Date

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# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | December | **Year** | 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
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**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
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| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

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| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2005** |
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**EFFLUENT**

**AMMENDED**

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | December | **Year** 2005 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | **Phone** | (828) 687-5247 | |
| **Certified Laboratories:** | (1) PACE Labs | | (2) | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

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(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | 0.312 | <2.2 | 0.234 | 0.031 | <0.005 | <0.001 | <0.001 | 280 | <0.002 | <0.002 | 0.51 | <0.005 | 0.012 | <0.005 | <0.002 | 0.013 |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | <2.0 | 0.673 | 0.064 | <0.005 | <0.001 | <0.001 | 660 | 0.002 | <0.002 | 0.62 | <0.005 | 0.014 | 0.0062 | <0.002 | <0.010 |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | <1.8 | 1.55 | 0.092 | <0.005 | <0.001 | <0.001 | 1200 | 0.0023 | <0.002 | 1.0 | <0.005 | 0.021 | 0.0075 | <0.002 | 0.012 |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | 4.0 | 0.902 | 0.170 | <0.005 | <0.001 | <0.001 | 1300 | <0.002 | <0.002 | 1.3 | <0.005 | 0.079 | 0.011 | <0.002 | 0.010 |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| **Average** | 0.312 | 1 | 0.840 | 0.089 | 0 | 0 | 0 | 860 | 0.0011 | 0 | 0.86 | 0 | 0.032 | 0.0062 | 0 | 0.009 |
| **Maximum** | 0.312 | 4 | 1.550 | 0.170 | <0.005 | <0.001 | <0.001 | 1300 | 0.0023 | <0.002 | 1.3 | <0.005 | 0.079 | 0.011 | <0.002 | 0.013 |
| **Minimum** | 0.312 | <1.8 | 0.234 | 0.031 | <0.005 | <0.001 | <0.001 | 280 | <0.002 | <0.002 | 0.51 | <0.005 | 0.012 | <0.005 | <0.002 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2005**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

AMENDED

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 12/14/2005

| | µg/l | Percentage |
|---|---|---|
| Selenate | 9.38 | 9.90 |
| Selenite | 85.4 | 90.10 |

Outfall 005

Sample Date: 12/14/2005

| | µg/l | Percentage |
|---|---|---|
| Selenate | 63.1 | 100.00 |
| Selenite | <1.6 | 0.00 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month January | Year 2006

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | Holiday | | N | | | | | | | | | | | |
| 3 | 07:00 | 10.30 | Y | | | | | | | | | | | |
| 4 | 07:00 | 7.00 | Y | 3.25 | 7.0 | 4.0 | <5.0 | 2.0 | <0.1 | <0.002 | 0.082 | 0.110 | | |
| 5 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 6 | 05:45 | 9.25 | B | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 10 | 07:00 | 9.00 | Y | | 6.5 | | | | | | | | >5.6 | |
| 11 | 07:00 | 9.50 | Y | 3.25 | | | | | | <0.002 | 0.071 | 0.120 | | |
| 12 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 13 | 07:00 | 8.00 | Y | | 7.6 | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | 06:15 | 9.50 | Y | | | | | | | | | | | |
| 17 | 06:30 | 9.50 | Y | 2.55 | 6.9 | | | | | 0.002 | 0.065 | 0.120 | | |
| 18 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 19 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 20 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 24 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 25 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 26 | 07:00 | 9.00 | Y | 3.25 | 6.9 | | | | | <0.002 | 0.050 | 0.110 | | |
| 27 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 31 | 06:30 | 10.00 | Y | | | | | | | | | | | |
| Average | | | | 3.08 | | 4.0 | 0 | 2.0 | 0 | 0 | 0.067 | 0.115 | >5.6 | |
| Maximum | | | | 3.25 | 7.6 | 4.0 | <5.0 | 2.0 | <0.1 | 0.002 | 0.082 | 0.120 | >5.6 | |
| Minimum | | | | 2.55 | 6.5 | 4.0 | <5.0 | 2.0 | <0.1 | <0.002 | 0.050 | 0.110 | >5.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month January | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | <0.001 | <0.001 | 120 | <0.002 | 1.2 | <0.005 | 0.10 | 0.016 | <0.002 | <0.010 | 0.026 | 0.0998 | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | <0.001 | <0.001 | 220 | <0.002 | 0.94 | <0.005 | 0.10 | 0.017 | <0.002 | <0.010 | 0.023 | 0.0878 | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | <0.001 | <0.001 | 190 | 0.0022 | 0.99 | <0.005 | 0.13 | 0.019 | <0.002 | <0.010 | 0.034 | 0.0776 | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | <0.001 | <0.001 | 100 | <0.002 | 1.0 | <0.005 | 0.097 | 0.021 | <0.002 | <0.010 | 0.045 | 0.0432 | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0 | 158 | 0.0006 | 1.03 | 0 | 0.107 | 0.018 | 0 | 0 | 0.032 | 0.0771 | | | |
| Maximum | <0.001 | <0.001 | 220 | 0.0022 | 1.2 | <0.005 | 0.130 | 0.021 | <0.002 | <0.010 | 0.045 | 0.0998 | | | |
| Minimum | <0.001 | <0.001 | 100 | <0.002 | 0.94 | <0.005 | 0.097 | 0.016 | <0.002 | <0.010 | 0.023 | 0.0432 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month January | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 248.4 | 28.3 | | | 0 | 0 | | | | | | | | |
| 2 | 248.4 | 29.3 | | | 0 | 0 | | | | | | | | |
| 3 | 248.4 | 28.9 | | | 0 | 0 | | | | | | | | |
| 4 | 248.4 | 30.2 | | 7.2 | 0 | 0 | | | | | | | | |
| 5 | 248.4 | 30.6 | | | 0 | 0 | | | | | | | | |
| 6 | 248.4 | 29.7 | | | 0 | 0 | | | | | | | | |
| 7 | 248.4 | 30.2 | | | 0 | 0 | | | | | | | | |
| 8 | 248.4 | 29.4 | | | 0 | 0 | | | | | | | | |
| 9 | 248.4 | 29.3 | 110 | | 20 | 20 | | | | | | | | |
| 10 | 248.4 | 28.3 | | 7.5 | 0 | 0 | | | | | | | | |
| 11 | 248.4 | 28.4 | | | 0 | 0 | | | | | | | | |
| 12 | 248.4 | 29.1 | | | 0 | 0 | | | | | | | | |
| 13 | 248.4 | 28.9 | | | 0 | 0 | | | | | | | | |
| 14 | 248.4 | 29.6 | | | 0 | 0 | | | | | | | | |
| 15 | 248.4 | 27.5 | | | 0 | 0 | | | | | | | | |
| 16 | 248.4 | 29.7 | 60 | | 80 | 80 | | | | | | | | |
| 17 | 248.4 | 29.3 | 20 | 7.9 | 120 | 120 | | | | | | | | |
| 18 | 248.4 | 28.7 | 20 | | 120 | 120 | | | | | | | | |
| 19 | 248.4 | 27.5 | 70 | | 120 | 120 | | | | | | | | |
| 20 | 248.4 | 27.2 | | | 0 | 0 | | | | | | | | |
| 21 | 248.4 | 26.9 | | | 120 | 120 | | | | | | | | |
| 22 | 248.4 | 27.4 | | | 120 | 120 | | | | | | | | |
| 23 | 248.4 | 29.7 | 30 | | 120 | 120 | | | | | | | | |
| 24 | 248.4 | 29.0 | 70 | | 120 | 120 | | | | | | | | |
| 25 | 248.4 | 30.0 | 50 | | 120 | 120 | | | | | | | | |
| 26 | 248.4 | 29.4 | 70 | 7.4 | 120 | 120 | | | | | | | | |
| 27 | 248.4 | 29.2 | | | 0 | 0 | | | | | | | | |
| 28 | 248.4 | 28.0 | | | 120 | 120 | | | | | | | | |
| 29 | 248.4 | 27.1 | | | 120 | 120 | | | | | | | | |
| 30 | 248.4 | 27.8 | <20 | | 60 | 40 | | | | | | | | |
| 31 | 248.4 | 28.4 | | | 0 | 0 | | | | | | | | |
| Average | 248.4 | 28.8 | 50 | | 48 | 47 | | | | | | | | |
| Maximum | 248.4 | 30.6 | 110 | 7.9 | 120 | 120 | | | | | | | | |
| Minimum | 248.4 | 26.9 | <20 | 7.2 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | January | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month January | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
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Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | 0.502 | 4.8 | 0.949 | 0.14 | <0.005 | <0.001 | <0.001 | 950 | <0.002 | <0.002 | 1.4 | <0.005 | 0.075 | 0.0086 | <0.002 | <0.010 |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | 9.2 | 0.723 | 0.18 | <0.005 | <0.001 | <0.001 | 1400 | 0.0038 | <0.002 | 1.3 | <0.005 | 0.016 | 0.0058 | <0.002 | <0.010 |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | 8.7 | 0.631 | 0.17 | <0.005 | <0.001 | <0.001 | 1400 | 0.0049 | <0.002 | 1.3 | <0.005 | 0.016 | <0.005 | <0.002 | <0.010 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | 2.6 | 0.616 | 0.13 | <0.005 | <0.001 | <0.001 | 1100 | 0.0053 | <0.002 | 1.0 | <0.005 | 0.0076 | <0.005 | <0.002 | <0.010 |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.502 | 6.325 | 0.730 | 0.16 | 0 | 0 | 0 | 1212 | 0.0035 | 0 | 1.2 | 0 | 0.0287 | 0.0036 | 0 | 0 |
| Maximum | 0.502 | 9.2 | 0.949 | 0.18 | <0.005 | <0.001 | <0.001 | 1400 | 0.0053 | <0.002 | 1.4 | <0.005 | 0.0750 | 0.0086 | <0.002 | <0.010 |
| Minimum | 0.502 | 2.6 | 0.616 | 0.13 | <0.005 | <0.001 | <0.001 | 950 | <0.002 | <0.002 | 1.0 | <0.005 | 0.0076 | <0.005 | <0.002 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 1/11/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate | 26.8 | 20.33 |
| Selenite | 105 | 79.67 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month February | Year 2006

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 9.00 | Y | 3.25 | 6.8 | 8.0 | <5.0 | | | <0.002 | 0.041 | 0.10 | | |
| 2 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 3 | 05:00 | 5.50 | B | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 7 | 06:30 | 9.50 | Y | 2.55 | 7.0 | | | | | <0.002 | 0.090 | 0.12 | | |
| 8 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 9 | 06:45 | 9.00 | Y | | | | | | | | | | | |
| 10 | 06:30 | 8.80 | Y | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 14 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 15 | 06:45 | 9.25 | Y | 3.75 | 7.4 | | | | | <0.002 | 0.120 | 0.138 | | |
| 16 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 17 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 21 | 06:30 | 9.50 | Y | 2.55 | 7.6 | | | | | <0.002 | 0.098 | 0.14 | | |
| 22 | 07:05 | 9.00 | Y | | | | | | | | | | | |
| 23 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 24 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 28 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.03 | | 8.0 | 0 | | | 0 | 0.087 | 0.124 | | |
| Maximum | | | | 3.75 | 7.6 | 8.0 | <5.0 | | | <0.002 | 0.120 | 0.140 | | |
| Minimum | | | | 2.55 | 6.8 | 8.0 | <5.0 | | | <0.002 | 0.041 | 0.100 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month February | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | <0.001 | <0.001 | 130 | <0.002 | 0.82 | <0.005 | 0.090 | 0.019 | <0.002 | <0.010 | 0.032 | 0.0510 | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | <0.001 | <0.001 | 140 | 0.0026 | 0.97 | <0.005 | 0.11 | 0.016 | <0.002 | <0.010 | 0.021 | 0.0371 | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | <0.001 | <0.001 | 130 | 0.0031 | 1.3 | <0.005 | 0.081 | 0.015 | <0.002 | <0.010 | 0.014 | 0.0441 | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | <0.001 | <0.001 | 170 | 0.003 | 0.82 | <0.005 | 0.13 | 0.015 | <0.002 | <0.010 | 0.015 | 0.0842 | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0 | 142 | 0.0022 | 0.98 | 0 | 0.103 | 0.016 | 0 | 0 | 0.020 | 0.0541 | | | |
| Maximum | <0.001 | <0.001 | 170 | 0.0031 | 1.3 | <0.005 | 0.130 | 0.019 | <0.002 | <0.010 | 0.032 | 0.0842 | | | |
| Minimum | <0.001 | <0.001 | 130 | <0.002 | 0.82 | <0.005 | 0.081 | 0.015 | <0.002 | <0.010 | 0.014 | 0.0371 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month February | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 248.4 | 29.5 | | 7.3 | 0 | 0 | | | | | | | | |
| 2 | 248.4 | 30.0 | | | 0 | 0 | | | | | | | | |
| 3 | 248.4 | 28.4 | | | 0 | 0 | | | | | | | | |
| 4 | 248.4 | 29.2 | | | 0 | 0 | | | | | | | | |
| 5 | 248.4 | 30.0 | | | 0 | 0 | | | | | | | | |
| 6 | 248.4 | 29.9 | | | 0 | 0 | | | | | | | | |
| 7 | 248.4 | 29.3 | | 7.3 | 0 | 0 | | | | | | | | |
| 8 | 248.4 | 30.0 | | | 0 | 0 | | | | | | | | |
| 9 | 248.4 | 29.8 | | | 0 | 0 | | | | | | | | |
| 10 | 248.4 | 30.2 | | | 0 | 0 | | | | | | | | |
| 11 | 248.4 | 30.3 | | | 0 | 0 | | | | | | | | |
| 12 | 248.4 | 29.1 | | | 0 | 0 | | | | | | | | |
| 13 | 248.4 | 29.7 | | | 0 | 0 | | | | | | | | |
| 14 | 248.4 | 29.6 | | | 0 | 0 | | | | | | | | |
| 15 | 248.4 | 28.9 | | 7.2 | 0 | 0 | | | | | | | | |
| 16 | 248.4 | 28.4 | | | 0 | 0 | | | | | | | | |
| 17 | 248.4 | 28.8 | | | 0 | 0 | | | | | | | | |
| 18 | 248.4 | 29.7 | | | 0 | 0 | | | | | | | | |
| 19 | 248.4 | 24.7 | | | 0 | 0 | | | | | | | | |
| 20 | 248.4 | 24.7 | | | 0 | 0 | | | | | | | | |
| 21 | 252.0 | 27.3 | | 6.9 | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 28.0 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 27.9 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 28.2 | | | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 28.6 | | | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 27.2 | | | 0 | 0 | | | | | | | | |
| 27 | 268.0 | 30.2 | | | 0 | 0 | | | | | | | | |
| 28 | 248.4 | 28.7 | | | 0 | 0 | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 259.4 | 28.8 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 30.3 | | 7.3 | 0 | 0 | | | | | | | | |
| Minimum | 248.4 | 24.7 | | 6.9 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | February | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month February | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.445 | 3.8 | 0.518 | 0.13 | <0.005 | <0.001 | <0.001 | 1200 | 0.0063 | <0.002 | 1.1 | <0.005 | 0.010 | <0.005 | <0.002 | <0.010 |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | 5.3 | 0.320 | 0.15 | <0.005 | <0.001 | <0.001 | 1200 | 0.0080 | <0.002 | 1.3 | <0.005 | 0.0099 | <0.005 | <0.002 | <0.010 |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | 6.7 | 0.553 | 0.14 | <0.005 | <0.001 | <0.001 | 1200 | 0.0072 | <0.002 | 1.7 | <0.005 | 0.0068 | <0.005 | <0.002 | 0.010 |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | 4.0 | 0.673 | 0.2 | <0.005 | <0.001 | <0.001 | 1100 | 0.0091 | <0.002 | 1.1 | <0.005 | 0.0087 | <0.005 | <0.002 | 0.013 |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.445 | 5.0 | 0.516 | 0.16 | 0 | 0 | 0 | 1175 | 0.0076 | 0 | 1.3 | 0 | 0.0088 | 0 | 0 | 0.006 |
| Maximum | 0.445 | 6.7 | 0.673 | 0.20 | <0.005 | <0.001 | <0.001 | 1200 | 0.0091 | <0.002 | 1.7 | <0.005 | 0.0100 | <0.005 | <0.002 | 0.013 |
| Minimum | 0.445 | 3.8 | 0.320 | 0.13 | <0.005 | <0.001 | <0.001 | 1100 | 0.0063 | <0.002 | 1.1 | <0.005 | 0.0068 | <0.005 | <0.002 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 2/15/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate | 17.7 | 14.08 |
| Selenite | 108 | 85.92 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2006

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 08:30 | 7.50 | Y | | | | | | | | | | | |
| 2 | 07:00 | 9.00 | Y | 3.01 | 8.0 | 5.5 | <5 | | | <0.002 | 0.120 | 0.130 | | |
| 3 | 05:00 | 9.50 | B | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 7 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 8 | 07:00 | 9.00 | Y | 3.25 | 7.6 | | | | | 0.051 | 0.140 | 0.130 | | |
| 9 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 10 | 07:00 | 5.00 | Y | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 14 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 15 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 16 | 07:00 | 9.00 | Y | 3.50 | 7.7 | | | | | <0.002 | 0.110 | 0.116 | | |
| 17 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 21 | 07:00 | 9.00 | Y | 1.91 | 7.0 | | | | | 0.002 | 0.039 | 0.072 | | |
| 22 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 23 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 24 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 28 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 29 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 30 | 07:00 | 9.00 | Y | 2.78 | 7.0 | | | | | <0.002 | <0.005 | 0.160 | | |
| 31 | 00:00 | 10.75 | B | | | | | | | | | | | |
| Average | | | | 2.89 | | 5.5 | 0 | | | 0.011 | 0.082 | 0.122 | | |
| Maximum | | | | 3.50 | 8.0 | 5.5 | <5.0 | | | 0.051 | 0.140 | 0.160 | | |
| Minimum | | | | 1.91 | 7.0 | 5.5 | <5.0 | | | <0.002 | <0.005 | 0.072 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | <0.001 | <0.001 | 58 | 0.0023 | 1.2 | <0.005 | 0.096 | 0.0091 | <0.002 | <0.010 | <0.010 | 0.0908 | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | <0.001 | <0.001 | 63 | 0.0025 | 1.2 | 0.014 | 0.096 | 0.011 | <0.002 | <0.010 | 0.010 | 0.0795 | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | 0.001 | <0.001 | 58 | <0.002 | 1.7 | <0.005 | 0.085 | 0.011 | <0.002 | <0.010 | 0.022 | 0.0893 | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | <0.001 | <0.001 | 40 | <0.002 | 1.8 | <0.005 | 0.17 | 0.017 | <0.002 | <0.010 | 0.031 | 0.0294 | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | <0.001 | <0.001 | 9.9 | 0.0085 | 0.99 | <0.005 | 0.012 | 0.0084 | <0.002 | <0.010 | 0.013 | 0.00486 | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0 | 46 | 0.003 | 1.38 | 0.003 | 0.092 | 0.011 | 0 | 0 | 0.015 | 0.0588 | | | |
| Maximum | 0.001 | <0.001 | 63 | 0.0085 | 1.8 | 0.014 | 0.170 | 0.017 | <0.002 | <0.010 | 0.031 | 0.0908 | | | |
| Minimum | <0.001 | <0.001 | 9.9 | <0.002 | 0.99 | <0.005 | 0.012 | 0.008 | <0.002 | <0.010 | <0.010 | 0.0049 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month March | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 248.4 | 29.2 | | | 0 | 0 | | | | | | | | |
| 2 | 248.4 | 29.6 | | 7.9 | 0 | 0 | | | | | | | | |
| 3 | 248.4 | 30.0 | | | 0 | 0 | | | | | | | | |
| 4 | 248.4 | 31.3 | | | 0 | 0 | | | | | | | | |
| 5 | 248.4 | 31.1 | | | 0 | 0 | | | | | | | | |
| 6 | 248.4 | 31.9 | | | 0 | 0 | | | | | | | | |
| 7 | 272.5 | 31.0 | | | 0 | 0 | | | | | | | | |
| 8 | 305.5 | 30.1 | | 7.7 | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 29.7 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 30.0 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 29.2 | | | 0 | 0 | | | | | | | | |
| 12 | 253.9 | 26.4 | | | 0 | 0 | | | | | | | | |
| 13 | 248.4 | 27.2 | | | 0 | 0 | | | | | | | | |
| 14 | 248.4 | 27.8 | | | 0 | 0 | | | | | | | | |
| 15 | 248.4 | 27.5 | | | 0 | 0 | | | | | | | | |
| 16 | 297.5 | 31.3 | | 7.8 | 0 | 0 | | | | | | | | |
| 17 | 305.5 | 30.3 | | | 0 | 0 | | | | | | | | |
| 18 | 266.0 | 26.6 | | | 0 | 0 | | | | | | | | |
| 19 | 245.8 | 26.0 | | | 0 | 0 | | | | | | | | |
| 20 | 170.0 | 28.8 | | | 0 | 0 | | | | | | | | |
| 21 | 155.5 | 29.6 | | 7.5 | 0 | 0 | | | | | | | | |
| 22 | 155.5 | 28.9 | | | 0 | 0 | | | | | | | | |
| 23 | 155.5 | 29.0 | | | 0 | 0 | | | | | | | | |
| 24 | 155.5 | 28.6 | | | 0 | 0 | | | | | | | | |
| 25 | 155.5 | 28.1 | | | 0 | 0 | | | | | | | | |
| 26 | 193.5 | 26.1 | | | 0 | 0 | | | | | | | | |
| 27 | 227.8 | 25.1 | | | 0 | 0 | | | | | | | | |
| 28 | 300.9 | 25.3 | | | 0 | 0 | | | | | | | | |
| 29 | 305.5 | 26.9 | | | 0 | 0 | | | | | | | | |
| 30 | 305.5 | 28.8 | | 7.4 | 0 | 0 | | | | | | | | |
| 31 | 305.5 | 28.8 | | | 0 | 0 | | | | | | | | |
| Average | 247.9 | 28.7 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 31.9 | | 7.9 | 0 | 0 | | | | | | | | |
| Minimum | 155.5 | 25.1 | | 7.4 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | March | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month March | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | 0.431 | 1.8 | 0.950 | 0.14 | <0.005 | <0.001 | <0.001 | 850 | 0.012 | <0.002 | 1.2 | <0.005 | 0.0077 | 0.0085 | <0.002 | <0.010 |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | 3.5 | 1.020 | 0.15 | <0.005 | <0.001 | <0.001 | 960 | 0.0054 | 0.049 | 1.5 | 0.0098 | 0.015 | 0.0076 | <0.002 | <0.010 |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | 2.5 | 1.230 | 0.14 | <0.005 | <0.001 | <0.001 | 1100 | 0.0042 | <0.002 | 1.9 | <0.005 | 0.011 | 0.0052 | <0.002 | 0.013 |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | 3.1 | 1.020 | 0.078 | <0.005 | <0.001 | <0.001 | 690 | 0.0029 | <0.002 | 2.2 | <0.005 | 0.018 | 0.0051 | <0.002 | <0.010 |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | 0 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | 0 | | | | | | | | | | | | | | | |
| 31 | | 5.2 | 0.891 | 0.10 | <0.005 | <0.001 | <0.001 | 810 | 0.0028 | <0.002 | 1.4 | <0.005 | 0.01 | 0.0057 | <0.002 | 0.014 |
| Average | 0.144 | 3.2 | 1.022 | 0.12 | 0 | 0 | 0 | 882 | 0.0055 | 0.010 | 1.6 | 0.0020 | 0.0123 | 0.0064 | 0 | 0.005 |
| Maximum | 0.431 | 5.2 | 1.230 | 0.15 | <0.005 | <0.001 | <0.001 | 1100 | 0.012 | 0.049 | 2.2 | 0.0098 | 0.0180 | 0.0085 | <0.002 | 0.014 |
| Minimum | 0 | 1.8 | 0.891 | 0.078 | <0.005 | <0.001 | <0.001 | 690 | 0.0028 | <0.002 | 1.2 | <0.005 | 0.0077 | 0.0051 | <0.002 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 3/16/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 14.5 | 14.56 |
| Selenite [SE (IV)] | 85.1 | 85.44 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month April | Year 2006

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 07:00 | 7.50 | Y | | | | | | | | | | | |
| 4 | 07:00 | 9.00 | Y | 2.55 | 6.8 | 8.2 | <5 | 3.9 | <0.100 | <0.002 | 0.039 | 0.076 | >5.6 | |
| 5 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 6 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 7 | 07:00 | 8.50 | Y | | 8.5 | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 11 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 12 | 07:00 | 9.00 | Y | 1.91 | 6.5 | | | | | 0.0053 | <0.005 | 0.072 | | |
| 13 | 05:00 | 8.75 | B | | | | | | | | | | | |
| 14 | Holiday | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 05:00 | 9.50 | B | | | | | | | | | | | |
| 18 | 05:00 | 9.50 | B | | | | | | | | | | | |
| 19 | 07:30 | 7.50 | B | | | | | | | | | | | |
| 20 | 05:00 | 9.50 | B | 1.51 | 7.1 | | | | | <0.002 | 0.021 | 0.100 | | |
| 21 | 05:00 | 9.50 | B | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 25 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 26 | 07:00 | 9.20 | Y | 0.53 | 6.7 | | | | | 0.0034 | 0.0052 | 0.190 | | |
| 27 | 07:00 | 9.20 | Y | | | | | | | | | | | |
| 28 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 1.62 | | 8.2 | 0 | 3.9 | 0 | 0.0022 | 0.0163 | 0.110 | >5.6 | |
| Maximum | | | | 2.55 | 8.5 | 8.2 | <5.0 | 3.9 | <0.100 | 0.0053 | 0.039 | 0.190 | >5.6 | |
| Minimum | | | | 0.53 | 6.5 | 8.2 | <5.0 | 3.9 | <0.100 | <0.002 | <0.005 | 0.072 | >5.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit/Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month April | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | <0.001 | <0.001 | 98 | <0.002 | 1.2 | <0.005 | 0.14 | 0.021 | <0.002 | <0.010 | 0.023 | 0.0894 | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | <0.001 | 0.0011 | 300 | 0.0026 | 1.0 | <0.005 | 0.21 | 0.024 | <0.002 | <0.010 | 0.049 | 0.227 | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | <0.001 | <0.001 | 200 | 0.0023 | 0.99 | <0.005 | 0.17 | 0.018 | <0.002 | <0.010 | 0.040 | 0.199 | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | <0.001 | <0.001 | 580 | 0.003 | 0.95 | <0.005 | 0.82 | 0.0065 | <0.002 | <0.010 | 0.029 | 0.637 | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0.0003 | 294 | 0.002 | 1.04 | 0 | 0.34 | 0.0174 | 0 | 0 | 0.035 | 0.2881 | | | |
| Maximum | <0.001 | 0.0011 | 580 | 0.003 | 1.2 | <0.005 | 0.82 | 0.024 | <0.002 | <0.010 | 0.049 | 0.6370 | | | |
| Minimum | <0.001 | <0.001 | 98 | <0.002 | 0.95 | <0.005 | 0.14 | 0.0065 | <0.002 | <0.010 | 0.023 | 0.0894 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Limit | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month April | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 29.3 | | | 0 | 0 | | | | | | | | |
| 2 | 292.8 | 29.0 | | | 0 | 0 | | | | | | | | |
| 3 | 305.5 | 31.1 | | | 0 | 0 | | | | | | | | |
| 4 | 305.5 | 30.0 | | 7.5 | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 30.7 | | | 0 | 0 | | | | | | | | |
| 6 | 305.5 | 30.2 | | | 0 | 0 | | | | | | | | |
| 7 | 301.4 | 30.5 | | | 0 | 0 | | | | | | | | |
| 8 | 240.7 | 28.7 | | | 0 | 0 | | | | | | | | |
| 9 | 195.4 | 29.7 | | | 0 | 0 | | | | | | | | |
| 10 | 150.0 | 32.1 | | | 0 | 0 | | | | | | | | |
| 11 | 150.0 | 32.0 | | | 0 | 0 | | | | | | | | |
| 12 | 150.0 | 31.3 | | 7.3 | 0 | 0 | | | | | | | | |
| 13 | 150.0 | 32.5 | | | 0 | 0 | | | | | | | | |
| 14 | 150.0 | 32.0 | | | 0 | 0 | | | | | | | | |
| 15 | 150.0 | 32.2 | | | 0 | 0 | | | | | | | | |
| 16 | 150.0 | 32.6 | | | 0 | 0 | | | | | | | | |
| 17 | 102.3 | 22.7 | | | 0 | 0 | | | | | | | | |
| 18 | 105.7 | 23.0 | | | 0 | 0 | | | | | | | | |
| 19 | 150.0 | 32.1 | | | 0 | 0 | | | | | | | | |
| 20 | 150.0 | 32.6 | | 7.4 | 0 | 0 | | | | | | | | |
| 21 | 150.0 | 32.3 | | | 0 | 0 | | | | | | | | |
| 22 | 150.0 | 32.8 | | | 0 | 0 | | | | | | | | |
| 23 | 150.0 | 31.6 | | | 0 | 0 | | | | | | | | |
| 24 | 150.0 | 33.0 | | | 0 | 0 | | | | | | | | |
| 25 | 150.0 | 33.3 | | | 0 | 0 | | | | | | | | |
| 26 | 150.0 | 35.2 | | 7.7 | 0 | 0 | | | | | | | | |
| 27 | 150.0 | 33.6 | | | 0 | 0 | | | | | | | | |
| 28 | 150.0 | 33.7 | | | 0 | 0 | | | | | | | | |
| 29 | 150.0 | 33.6 | | | 0 | 0 | | | | | | | | |
| 30 | 150.0 | 30.5 | | | 0 | 0 | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 187.2 | 31.1 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 35.2 | | 7.7 | 0 | 0 | | | | | | | | |
| Minimum | 102.3 | 22.7 | | 7.3 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit/Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | April | Year | 2006 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Regina G. Elledge | Grade | P/C I | | Phone | (828) 687-5247 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| William A. Phipps | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| 200 CP&L Drive | Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010 |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | April | **Year** 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | (828) 687-5247 |
| **Certified Laboratories:** | (1) PACE Labs | | (2) | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
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**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | 0.325 | 3.5 | 0.972 | 0.11 | <0.005 | <0.001 | <0.001 | 970 | 0.0035 | <0.002 | 1.8 | <0.005 | 0.011 | 0.0055 | <0.002 | <0.010 |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | 1.8 | 1.48 | 0.23 | <0.005 | <0.001 | <0.001 | 1400 | 0.0077 | <0.002 | 1.8 | <0.005 | <0.005 | <0.005 | <0.002 | <0.010 |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | 6.6 | 1.27 | 0.31 | <0.005 | <0.001 | <0.001 | 1100 | 0.0055 | <0.002 | 1.3 | <0.005 | 0.046 | 0.0064 | <0.002 | <0.010 |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | 8.8 | 1.03 | 0.23 | <0.005 | <0.001 | <0.001 | 730 | 0.0047 | <0.002 | 0.99 | <0.005 | 0.013 | <0.005 | <0.002 | <0.010 |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| **Average** | 0.325 | 5.2 | 1.188 | 0.22 | 0 | 0 | 0 | 1050 | 0.0054 | 0 | 1.5 | 0 | 0.0180 | 0.0030 | 0 | 0 |
| **Maximum** | 0.325 | 8.8 | 1.480 | 0.31 | <0.005 | <0.001 | <0.001 | 1400 | 0.0077 | <0.002 | 1.8 | <0.005 | 0.0460 | 0.0064 | <0.002 | <0.010 |
| **Minimum** | 0.325 | 1.8 | 0.972 | 0.11 | <0.005 | <0.001 | <0.001 | 730 | 0.0035 | <0.002 | 0.99 | <0.005 | <0.005 | <0.005 | <0.002 | <0.010 |
| **Comp. (C)/Grab (G)** | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Limit** | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 4/4/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 14.0 | 19.39 |
| Selenite [SE (IV)] | 58.2 | 80.61 |

**EFFLUENT** **AMENDED**

**NPDES Permit No.** NC0000396 **Discharge No.** 001 **Month** May **Year** 2006
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Regina G. Elledge **Grade** P/C I **Phone** (828) 687-5247
**Certified Laboratories:** (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting
**Check If ORC has Changed** **Person (s) Collecting Samples:** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15:00 | 1.50 | Y | | | | | | | | | | |
| 2 | 07:00 | 10.00 | Y | | | | | | | | | | |
| 3 | 07:00 | 9.50 | Y | 1.15 | 6.9 | 2.2 | <5.0 | | | <0.002 | 0.026 | 0.120 | |
| 4 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 5 | 07:00 | 8.00 | Y | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | |
| 8 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 9 | 07:10 | 9.00 | Y | | | | | | | | | | |
| 10 | 07:00 | 9.00 | Y | 1.15 | 6.6 | | | | | <0.002 | 0.039 | 0.170 | |
| 11 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 12 | 05:00 | 9.50 | B | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | |
| 15 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 16 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 17 | 07:00 | 9.00 | Y | 2.33 | 7.1 | | | | | <0.002 | <0.005 | 0.122 | |
| 18 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 19 | 07:00 | 8.00 | Y | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | |
| 22 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 23 | 06:30 | 9.60 | Y | 3.25 | 7.7 | | | | | <0.002 | 0.098 | 0.100 | |
| 24 | 05:00 | 9.50 | B | | | | | | | | | | |
| 25 | 05:00 | 9.50 | B | | | | | | | | | | |
| 26 | 06:30 | 8.00 | B | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | |
| 29 | Holiday | | N | | | | | | | | | | |
| 30 | 06:42 | 9.30 | Y | 2.33 | 7.1 | | | | | <0.002 | <0.005 | <0.005 | |
| 31 | 06:30 | 9.70 | Y | | | | | | | | | | |
| **Average** | | | | 2.04 | | 2.2 | 0 | | | 0 | 0.033 | 0.102 | |
| **Maximum** | | | | 3.25 | 7.7 | 2.2 | <5.0 | | | <0.002 | 0.098 | 0.170 | |
| **Minimum** | | | | 1.15 | 6.6 | 2.2 | <5.0 | | | <0.002 | <0.005 | <0.005 | |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements **XXXX**
All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) Signature of Permittee** Date

**200 CP&L Drive** **Arden, N.C.** **28704** **(828)684-4286** **December 31, 2010**
Permittee Address Phone Number Permit Exp. Date

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | <0.001 | <0.001 | 200 | <0.002 | 1.1 | <0.005 | 0.210 | 0.014 | <0.002 | <0.01 | 0.040 | 0.3120 | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | <0.001 | <0.001 | 330 | 0.0025 | 1.2 | <0.005 | 0.230 | 0.014 | <0.002 | <0.01 | 0.038 | 0.3730 | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | <0.001 | <0.001 | 100 | 0.0032 | 0.91 | <0.005 | 0.070 | 0.0066 | <0.002 | <0.01 | 0.021 | 0.1300 | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | <0.001 | <0.001 | 62 | 0.0034 | 0.91 | <0.005 | 0.096 | 0.0099 | <0.002 | <0.01 | 0.027 | 0.0979 | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | <0.001 | <0.001 | 90 | <0.002 | 1.4 | <0.005 | 0.058 | <0.005 | <0.002 | <0.01 | 0.014 | 0.1140 | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0 | 156 | 0.0018 | 1.10 | 0 | 0.133 | 0.0089 | 0 | 0 | 0.028 | 0.2054 | | | |
| Maximum | <0.001 | <0.001 | 330 | 0.0034 | 1.4 | <0.005 | 0.230 | 0.014 | <0.002 | <0.010 | 0.040 | 0.3730 | | | |
| Minimum | <0.001 | <0.001 | 62 | <0.002 | 0.91 | <0.005 | 0.058 | <0.005 | <0.002 | <0.010 | 0.014 | 0.0979 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

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Signature of Permittee** Date

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Phone Number

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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month May | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 150.0 | 32.5 | | | 0 | 0 | | | | | | | | |
| 2 | 150.0 | 32.4 | | | 0 | 0 | | | | | | | | |
| 3 | 150.0 | 32.3 | | 7.6 | 0 | 0 | | | | | | | | |
| 4 | 150.0 | 32.3 | | | 0 | 0 | | | | | | | | |
| 5 | 150.0 | 33.5 | | | 0 | 0 | | | | | | | | |
| 6 | 136.4 | 28.0 | | | 0 | 0 | | | | | | | | |
| 7 | 150.0 | 33.0 | | | 0 | 0 | | | | | | | | |
| 8 | 150.0 | 34.7 | <20 | | 80 | 0 | | | | | | | | |
| 9 | 150.0 | 32.6 | <20 | | 120 | 0 | | | | | | | | |
| 10 | 150.0 | 32.8 | 40 | 7.5 | 120 | 0 | | | | | | | | |
| 11 | 205.1 | 31.1 | 20 | | 120 | 0 | | | | | | | | |
| 12 | 305.5 | 27.9 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 27.6 | | | 120 | 0 | | | | | | | | |
| 14 | 305.1 | 27.2 | | | 120 | 0 | | | | | | | | |
| 15 | 299.5 | 28.4 | 90 | | 120 | 0 | | | | | | | | |
| 16 | 240.9 | 29.2 | 60 | | 120 | 0 | | | | | | | | |
| 17 | 240.7 | 29.6 | 70 | 7.6 | 120 | 0 | | | | | | | | |
| 18 | 240.7 | 28.5 | 40 | | 120 | 60 | | | | | | | | |
| 19 | 240.7 | 31.8 | | | 0 | 0 | | | | | | | | |
| 20 | 280.9 | 30.9 | | | 120 | 120 | | | | | | | | |
| 21 | 305.5 | 32.0 | | | 120 | 120 | | | | | | | | |
| 22 | 305.5 | 33.2 | 50 | | 120 | 120 | | | | | | | | |
| 23 | 305.5 | 33.5 | 70 | 7.9 | 120 | 120 | | | | | | | | |
| 24 | 305.5 | 34.1 | 30 | | 120 | 120 | | | | | | | | |
| 25 | 305.5 | 34.8 | 60 | | 120 | 120 | | | | | | | | |
| 26 | 305.5 | 36.3 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 36.0 | | | 120 | 120 | | | | | | | | |
| 28 | 305.5 | 34.8 | | | 120 | 120 | | | | | | | | |
| 29 | 305.5 | 34.7 | Holiday | | 120 | 120 | | | | | | | | |
| 30 | 269.4 | 35.4 | 80 | 7.7 | 120 | 80 | | | | | | | | |
| 31 | 240.7 | 35.8 | 40 | | 120 | 0 | | | | | | | | |
| Average | 239.1 | 32.2 | 46 | | 80 | 39 | | | | | | | | |
| Maximum | 305.5 | 36.3 | 90 | 7.9 | 120 | 120 | | | | | | | | |
| Minimum | 136.4 | 27.2 | <20 | 7.5 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | May | Year | 2006 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Regina G. Elledge | Grade | P/C I | | Phone | (828) 687-5247 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| William A. Phipps | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| 200 CP&L Drive | Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010 |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month May | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | 0.363 | 4.7 | 1.7 | 0.29 | <0.005 | <0.001 | <0.001 | 920 | 0.0027 | <0.002 | 1.3 | <0.005 | 0.0092 | <0.005 | <0.002 | <0.01 |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | 16 | 1.4 | 0.36 | <0.005 | <0.001 | <0.001 | 1100 | 0.0034 | <0.002 | 1.5 | <0.005 | 0.028 | 0.0053 | <0.002 | <0.01 |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | 0.390 | 5.1 | 1.77 | 0.196 | 0.068 | <0.001 | <0.001 | 850 | 0.0029 | <0.002 | 1.3 | <0.005 | 0.14 | 0.014 | <0.002 | 0.035 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | 5.8 | 1.34 | 0.24 | <0.005 | <0.001 | <0.001 | 700 | <0.002 | <0.002 | 1.1 | <0.005 | 0.074 | 0.0068 | <0.002 | 0.018 |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | 5.5 | 1.05 | 0.19 | <0.005 | <0.001 | <0.001 | 770 | 0.0036 | <0.002 | 1.4 | <0.005 | 0.15 | 0.0051 | <0.002 | 0.014 |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.376 | 7.4 | 1.452 | 0.255 | 0.014 | 0 | 0 | 868 | 0.0025 | 0 | 1.3 | 0 | 0.0802 | 0.0062 | 0 | 0.013 |
| Maximum | 0.39 | 16 | 1.770 | 0.36 | 0.068 | <0.001 | <0.001 | 1100 | 0.0036 | <0.002 | 1.5 | <0.005 | 0.15 | 0.014 | <0.002 | 0.035 |
| Minimum | 0.363 | 4.7 | 1.050 | 0.190 | <0.005 | <0.001 | <0.001 | 700 | <0.002 | <0.002 | 1.1 | <0.005 | 0.0092 | <0.005 | <0.002 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 5/17/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 40.8 | 34.34 |
| Selenite [SE (IV)] | 78 | 65.66 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month June | Year 2006

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 2 | 06:15 | 6.00 | Y | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | 06:30 | 8.50 | Y | | | | | | | | | | | |
| 6 | 06:30 | 9.50 | Y | 2.11 | 7.1 | | | | | <0.002 | 0.098 | 0.110 | | |
| 7 | 06:45 | 9.25 | Y | | | | | | | | | | | |
| 8 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 9 | 05:00 | 9.50 | B | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 07:00 | 0.75 | Y | | | | | | | | | | | |
| 14 | 06:00 | 10.00 | Y | 3.50 | 7.2 | 5.6 | <5.0 | | | 0.0061 | 0.140 | 0.100 | | |
| 15 | 06:00 | 7.50 | Y | | | | | | | | | | | |
| 16 | 07:00 | 6.00 | Y | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 20 | 04:30 | 10.00 | B | | | | | | | | | | | |
| 21 | 07:30 | 8.50 | Y | 3.50 | 7.0 | | | | | 0.0049 | 0.130 | 0.083 | | |
| 22 | 06:30 | 11.00 | Y | | | | | | | | | | | |
| 23 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 27 | 06:00 | 10.00 | Y | 4.82 | 7.2 | | | | | 0.0032 | 0.110 | 0.064 | | |
| 28 | 04:30 | 9.30 | B | | | | | | | | | | | |
| 29 | 04:30 | 10.50 | B | | | | | | | | | | | |
| 30 | 07:00 | 2.00 | B | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.48 | | 5.6 | 0 | | | 0.0036 | 0.120 | 0.089 | | |
| Maximum | | | | 4.82 | 7.2 | 5.6 | <5.0 | | | 0.0061 | 0.140 | 0.110 | | |
| Minimum | | | | 2.11 | 7.0 | 5.6 | <5.0 | | | <0.002 | 0.098 | 0.064 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

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William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month June | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | <0.001 | <0.001 | 120 | 0.0028 | 0.78 | <0.005 | 0.14 | 0.012 | <0.002 | <0.010 | <0.010 | 0.0500 | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | <0.001 | <0.001 | 29 | 0.0033 | 1.20 | <0.005 | 0.064 | 0.011 | <0.002 | <0.010 | 0.014 | 0.0201 | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | <0.001 | 0.0014 | 28 | <0.002 | 0.69 | <0.005 | 0.086 | <0.005 | 0.0034 | <0.010 | 0.011 | 0.0307 | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | <0.001 | <0.001 | 57 | <0.002 | 0.85 | <0.005 | 0.11 | 0.015 | <0.002 | <0.010 | 0.043 | 0.0649 | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0.00035 | 58 | 0.001525 | 0.88 | 0 | 0.100 | 0.010 | 0.0008 | 0 | 0.017 | 0.0414 | | | |
| Maximum | <0.001 | 0.0014 | 120 | 0.0033 | 1.20 | <0.005 | 0.140 | 0.015 | 0.0034 | <0.010 | 0.043 | 0.0649 | | | |
| Minimum | <0.001 | <0.001 | 28 | <0.002 | 0.69 | <0.005 | 0.064 | <0.005 | <0.002 | <0.010 | <0.010 | 0.0201 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | | |

Facility Status: (Please Check one of the following)

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All monitoring data and sampling frequencies do NOT meet permit requirements

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**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month June | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

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North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 240.7 | 35.9 | 30 | | 120 | 0 | | | | | | | | |
| 2 | 191.8 | 38.1 | | | 0 | 0 | | | | | | | | |
| 3 | 176.9 | 37.8 | | | 120 | 0 | | | | | | | | |
| 4 | 240.7 | 34.5 | | | 120 | 0 | | | | | | | | |
| 5 | 282.6 | 35.1 | 60 | | 100 | 80 | | | | | | | | |
| 6 | 305.5 | 36.0 | 40 | 7.8 | 120 | 120 | | | | | | | | |
| 7 | 305.5 | 36.1 | 50 | | 120 | 120 | | | | | | | | |
| 8 | 305.5 | 37.0 | 50 | | 120 | 120 | | | | | | | | |
| 9 | 305.5 | 37.0 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 37.7 | | | 120 | 120 | | | | | | | | |
| 11 | 305.5 | 37.4 | | | 120 | 120 | | | | | | | | |
| 12 | 305.5 | 38.2 | 40 | | 60 | 60 | | | | | | | | |
| 13 | 303.4 | 38.0 | | | 0 | 0 | | | | | | | | |
| 14 | 303.9 | 38.5 | | 8.3 | 0 | 0 | | | | | | | | |
| 15 | 305.5 | 38.1 | 30 | | 80 | 80 | | | | | | | | |
| 16 | 305.5 | 38.4 | | | 0 | 0 | | | | | | | | |
| 17 | 305.5 | 38.6 | | | 120 | 120 | | | | | | | | |
| 18 | 305.5 | 38.8 | | | 120 | 120 | | | | | | | | |
| 19 | 305.5 | 39.9 | 50 | | 80 | 80 | | | | | | | | |
| 20 | 305.5 | 40.3 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 40.7 | | 8.4 | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 41.2 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 41.6 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 40.8 | | | 120 | 120 | | | | | | | | |
| 25 | 305.5 | 41.2 | | | 120 | 120 | | | | | | | | |
| 26 | 305.5 | 42.0 | 50 | | 120 | 120 | | | | | | | | |
| 27 | 305.5 | 41.6 | 20 | 7.9 | 120 | 120 | | | | | | | | |
| 28 | 305.5 | 40.7 | 30 | | 120 | 120 | | | | | | | | |
| 29 | 305.5 | 41.7 | 30 | | 120 | 120 | | | | | | | | |
| 30 | 305.5 | 41.4 | | | 0 | 0 | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 292.2 | 38.8 | 40 | | 75 | 62 | | | | | | | | |
| Maximum | 305.5 | 42.0 | 60 | 8.4 | 120 | 120 | | | | | | | | |
| Minimum | 176.9 | 34.5 | 20 | 7.8 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | June | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
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| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | | | |
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| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month June | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
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North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01022 Total Boron mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.265 | 6 | 0.626 | 0.40 | <0.005 | <0.001 | | <0.001 | 1200 | 0.0083 | <0.002 | 1.3 | <0.005 | 0.200 | 0.0082 | <0.002 | <0.010 |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | 0.338 | 8.2 | 0.545 | 0.34 | <0.005 | <0.001 | 10 | <0.001 | 270 | 0.0066 | <0.002 | 1.7 | <0.005 | 0.130 | 0.0065 | <0.002 | 0.022 |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | 0.325 | 26.0 | 0.545 | 0.37 | <0.005 | <0.001 | 11 | <0.001 | 820 | <0.002 | 0.011 | 1.4 | <0.005 | 0.320 | 0.0051 | 0.0023 | 0.014 |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | 0.473 | 4.9 | 1.400 | 0.16 | <0.005 | <0.001 | 8.2 | <0.001 | 990 | 0.002 | <0.002 | 1.4 | <0.005 | 0.310 | 0.0096 | <0.002 | 0.017 |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.350 | 11.3 | 0.779 | 0.32 | 0 | 0 | 9.7 | 0 | 820 | 0.0042 | 0.003 | 1.4 | 0 | 0.240 | 0.0074 | 0.000575 | 0.013 |
| Maximum | 0.473 | 26 | 1.400 | 0.40 | <0.005 | <0.001 | 11 | <0.001 | 1200 | 0.0083 | 0.011 | 1.7 | <0.005 | 0.320 | 0.0096 | 0.0023 | 0.022 |
| Minimum | 0.265 | 4.9 | 0.545 | 0.16 | <0.005 | <0.001 | 8.2 | <0.001 | 270 | <0.002 | <0.002 | 1.3 | <0.005 | 0.130 | 0.0051 | <0.002 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 6/14/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 18.7 | 19.38 |
| Selenite [SE (IV)] | 77.8 | 80.62 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month July | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 06:00 | 4.00 | Y | | | | | | | | | | | |
| 4 | Holiday | | N | | | | | | | | | | | |
| 5 | 06:45 | 10.50 | Y | 3.25 | 6.9 | | | | | <0.002 | 0.085 | 0.073 | | |
| 6 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 7 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 11 | 06:30 | 10.00 | Y | 2.55 | 7.0 | 2.4 | <5.0 | 7.6 | 0.23 | 0.0028 | 0.081 | 0.078 | >5.6 | |
| 12 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 06:00 | 7.50 | Y | | | | | | | | | | | |
| 14 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 18 | 07:00 | 9.00 | Y | 2.78 | 7.0 | | | | | <0.002 | 0.073 | 0.081 | | |
| 19 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 20 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 21 | 06:30 | 5.00 | Y | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 25 | 04:30 | 10.00 | B | 3.25 | 6.9 | | | | | <0.002 | 0.090 | 0.084 | | |
| 26 | 04:30 | 10.00 | B | | | | | | | | | | | |
| 27 | 04:30 | 10.50 | B | | | | | | | | | | | |
| 28 | 04:00 | 8.00 | B | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| Average | | | | 2.96 | | 2.4 | 0 | 7.6 | 0.23 | 0.0007 | 0.082 | 0.079 | >5.6 | |
| Maximum | | | | 3.25 | 7.0 | 2.4 | <5.0 | 7.6 | 0.23 | 0.0028 | 0.090 | 0.084 | >5.6 | |
| Minimum | | | | 2.55 | 6.9 | 2.4 | <5.0 | 7.6 | 0.23 | <0.002 | 0.073 | 0.073 | >5.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

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William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month July | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
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| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | <0.001 | <0.001 | 110 | <0.002 | 1.1 | <0.005 | 0.120 | 0.014 | <0.002 | <0.010 | 0.025 | 0.1120 | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | <0.001 | <0.001 | 150 | <0.002 | 0.84 | <0.005 | 0.150 | 0.015 | <0.002 | 0.020 | 0.025 | 0.0776 | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | <0.001 | <0.001 | 260 | 0.0025 | 0.80 | <0.005 | 0.180 | 0.014 | <0.002 | <0.010 | 0.015 | 0.0888 | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | <0.001 | <0.001 | 150 | <0.002 | 1.2 | <0.005 | 0.140 | 0.018 | <0.002 | <0.010 | 0.017 | 0.0433 | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0 | 168 | 0.0006 | 0.980 | 0 | 0.148 | 0.015 | 0 | 0.005 | 0.020 | 0.0804 | | | |
| Maximum | <0.001 | <0.001 | 260 | 0.0025 | 1.2 | <0.005 | 0.180 | 0.018 | <0.002 | 0.020 | 0.025 | 0.1120 | | | |
| Minimum | <0.001 | <0.001 | 110 | <0.002 | 0.80 | <0.005 | 0.120 | 0.014 | <0.002 | <0.010 | 0.015 | 0.0433 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month July | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 40.8 | | | 120 | 120 | | | | | | | | |
| 2 | 305.5 | 38.4 | | | 120 | 120 | | | | | | | | |
| 3 | 305.5 | 38.9 | <20 | | 60 | 40 | | | | | | | | |
| 4 | 305.5 | 41.7 | | | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 41.6 | | 8.2 | 0 | 0 | | | | | | | | |
| 6 | 305.5 | 41.4 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 39.8 | | | 0 | 0 | | | | | | | | |
| 8 | 305.5 | 40.0 | | | 120 | 120 | | | | | | | | |
| 9 | 305.5 | 40.1 | | | 120 | 120 | | | | | | | | |
| 10 | 305.5 | 41.6 | 80 | | 120 | 120 | | | | | | | | |
| 11 | 305.5 | 42.1 | 120 | 7.4 | 120 | 120 | | | | | | | | |
| 12 | 305.5 | 42.1 | 60 | | 120 | 120 | | | | | | | | |
| 13 | 305.5 | 42.1 | 110 | | 120 | 120 | | | | | | | | |
| 14 | 305.5 | 42.3 | | | 0 | 0 | | | | | | | | |
| 15 | 305.5 | 42.8 | | | 120 | 120 | | | | | | | | |
| 16 | 305.5 | 43.4 | | | 120 | 120 | | | | | | | | |
| 17 | 305.5 | 43.2 | <20 | | 60 | 40 | | | | | | | | |
| 18 | 305.5 | 43.4 | | 8.0 | 0 | 0 | | | | | | | | |
| 19 | 305.5 | 44.2 | | | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 44.1 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 43.6 | | | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 44.8 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 43.4 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 43.5 | | | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 43.8 | | 7.6 | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 44.0 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 43.9 | | | 0 | 0 | | | | | | | | |
| 28 | 305.5 | 44.6 | | | 0 | 0 | | | | | | | | |
| 29 | 305.5 | 43.9 | | | 0 | 0 | | | | | | | | |
| 30 | 305.5 | 42.4 | | | 0 | 0 | | | | | | | | |
| 31 | 305.5 | 44.5 | 50 | | 80 | 80 | | | | | | | | |
| Average | 305.5 | 42.5 | 60 | | 45 | 44 | | | | | | | | |
| Maximum | 305.5 | 44.8 | 120 | 8.2 | 120 | 120 | | | | | | | | |
| Minimum | 305.5 | 38.4 | <20 | 7.4 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | July | Year | 2006 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Regina G. Elledge | Grade | P/C I | | Phone | (828) 687-5247 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| William A. Phipps | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| 200 CP&L Drive | Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010 |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month June | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | Total Boron mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | 0.376 | 11 | 1.54 | 0.18 | <0.005 | <0.001 | 12.0 | <0.001 | 1500 | 0.0033 | <0.002 | 2.1 | <0.005 | 0.190 | 0.0061 | <0.002 | 0.013 |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | 0.325 | 9 | 0.964 | 0.14 | <0.005 | <0.001 | 10.0 | <0.001 | 1500 | 0.0045 | <0.002 | 1.6 | <0.005 | 0.140 | <0.005 | 0.002 | <0.010 |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | 0.517 | <2.0 | 0.743 | 0.16 | <0.005 | <0.001 | 11.0 | <0.001 | 1400 | 0.0046 | <0.002 | 1.3 | <0.005 | 0.570 | 0.0094 | <0.002 | <0.010 |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | 0.325 | 10 | 0.492 | 0.27 | <0.005 | <0.001 | 12.0 | <0.001 | 1700 | 0.0045 | <0.002 | 2 | <0.005 | 0.480 | 0.014 | <0.002 | <0.010 |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.386 | 7.5 | 0.935 | 0.19 | 0 | 0 | 11.3 | 0 | 1525 | 0.0042 | 0.000 | 1.8 | 0.0000 | 0.345 | 0.0074 | 0.0005 | 0.0033 |
| Maximum | 0.517 | 11 | 1.540 | 0.27 | <0.005 | <0.001 | 12.0 | <0.001 | 1700 | 0.0046 | <0.002 | 2.1 | <0.005 | 0.570 | 0.014 | 0.002 | 0.013 |
| Minimum | 0.325 | <2.0 | 0.492 | 0.14 | <0.005 | <0.001 | 10.0 | <0.001 | 1400 | 0.0033 | <0.002 | 1.3 | <0.005 | 0.140 | <0.005 | <0.002 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 7/11/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 16.8 | 24.89 |
| Selenite [SE (IV)] | 50.7 | 75.11 |

## EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 001 Month August Year 2006
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Regina G. Elledge Grade P/C I Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting
Check If ORC has Changed Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 2 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 3 | 05:30 | 9.00 | Y | 3.01 | 7.1 | 2.0 | <5.0 | | | <0.002 | 0.110 | 0.110 | | |
| 4 | 05:30 | 10.00 | B | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 8 | 05:30 | 1.70 | B | | | | | | | | | | | |
| 9 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 10 | 05:30 | 9.00 | B | 3.25 | 6.7 | | | | | <0.002 | 0.085 | 0.110 | | |
| 11 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 06:00 | 10.20 | Y | | | | | | | | | | | |
| 15 | 07:00 | 9.00 | Y | 3.01 | 7.0 | | | | | <0.002 | 0.070 | 0.103 | | |
| 16 | 07:00 | 4.50 | Y | | | | | | | | | | | |
| 17 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 18 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 22 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 23 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 24 | 06:30 | 11.00 | Y | 2.78 | 7.2 | | | | | <0.005 | 0.130 | 0.140 | | |
| 25 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 29 | 07:00 | 9.00 | Y | 3.01 | 7.3 | | | | | <0.005 | 0.140 | 0.140 | | |
| 30 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 31 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 3.01 | | 2.0 | 0 | | | 0 | 0.107 | 0.121 | | |
| Maximum | | | | 3.25 | 7.3 | 2.0 | <5.0 | | | <0.005 | 0.140 | 0.140 | | |
| Minimum | | | | 2.78 | 6.7 | 2.0 | <5.0 | | | <0.002 | 0.070 | 0.103 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704 (828)684-4286 December 31, 2010
Permittee Address Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month August | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | <0.001 | <0.001 | 140 | <0.002 | 1.0 | <0.005 | 0.240 | 0.013 | <0.002 | <0.010 | 0.016 | 0.0890 | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | <0.001 | <0.001 | 170 | <0.002 | 1.1 | <0.005 | 0.220 | 0.014 | <0.002 | <0.010 | 0.038 | 0.0778 | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | <0.001 | <0.001 | 130 | <0.002 | 1.3 | <0.005 | 0.190 | 0.015 | <0.002 | <0.010 | 0.030 | 0.1010 | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | <0.001 | <0.001 | 180 | <0.005 | 1.6 | <0.005 | 0.160 | 0.010 | <0.005 | <0.010 | 0.014 | 0.1430 | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | <0.001 | <0.001 | 210 | <0.005 | 1.2 | <0.005 | 0.150 | 0.0072 | <0.005 | <0.010 | <0.010 | 0.1760 | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0 | 166 | 0 | 1.2 | 0 | 0.192 | 0.012 | 0 | 0 | 0.020 | 0.1174 | | | |
| Maximum | <0.001 | <0.001 | 210 | <0.005 | 1.6 | <0.005 | 0.240 | 0.015 | <0.005 | <0.010 | 0.038 | 0.1760 | | | |
| Minimum | <0.001 | <0.001 | 130 | <0.002 | 1.0 | <0.005 | 0.150 | 0.0072 | <0.002 | <0.010 | <0.010 | 0.0778 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month August | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 45.2 | 40 | | 120 | 120 | | | | | | | | |
| 2 | 305.5 | 45.4 | 30 | | 120 | 120 | | | | | | | | |
| 3 | 305.5 | 46.2 | 30 | 8.4 | 120 | 120 | | | | | | | | |
| 4 | 305.5 | 45.7 | | | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 45.8 | | | 0 | 0 | | | | | | | | |
| 6 | 305.5 | 44.7 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 45.3 | | | 0 | 0 | | | | | | | | |
| 8 | 305.5 | 45.1 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 44.9 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 45.3 | | 8.3 | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 45.0 | | | 0 | 0 | | | | | | | | |
| 12 | 305.5 | 42.1 | | | 0 | 0 | | | | | | | | |
| 13 | 305.2 | 41.1 | | | 0 | 0 | | | | | | | | |
| 14 | 305.5 | 42.7 | | | 0 | 0 | | | | | | | | |
| 15 | 305.5 | 43.4 | | 8.4 | 0 | 0 | | | | | | | | |
| 16 | 305.5 | 44.1 | | | 0 | 0 | | | | | | | | |
| 17 | 305.5 | 44.0 | | | 0 | 0 | | | | | | | | |
| 18 | 305.5 | 44.1 | | | 0 | 0 | | | | | | | | |
| 19 | 305.5 | 43.7 | | | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 43.4 | | | 0 | 0 | | | | | | | | |
| 21 | 305.5 | 44.3 | | | 0 | 0 | | | | | | | | |
| 22 | 305.5 | 44.3 | | | 0 | 0 | | | | | | | | |
| 23 | 305.5 | 44.0 | | | 0 | 0 | | | | | | | | |
| 24 | 305.5 | 44.0 | | 8.6 | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 43.5 | | | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 42.3 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 43.1 | | | 0 | 0 | | | | | | | | |
| 28 | 305.5 | 43.9 | 40 | | 80 | 80 | | | | | | | | |
| 29 | 305.5 | 44.6 | <20 | 8.7 | 120 | 120 | | | | | | | | |
| 30 | 305.5 | 44.4 | 40 | | 120 | 120 | | | | | | | | |
| 31 | 305.5 | 43.6 | 40 | | 120 | 120 | | | | | | | | |
| Average | 305.5 | 44.2 | 31 | | 26 | 26 | | | | | | | | |
| Maximum | 305.5 | 46.2 | 40 | 8.7 | 120 | 120 | | | | | | | | |
| Minimum | 305.2 | 41.1 | <20 | 8.3 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | August | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month August | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | Total Boron mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | 0.338 | 8.9 | 0.875 | 0.40 | <0.005 | <0.001 | 13.0 | 0.001 | 1800 | 0.0034 | <0.002 | 1.5 | <0.005 | 2.000 | 0.014 | 0.0031 | 0.027 |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | 13.0 | 1.140 | 0.44 | <0.005 | <0.001 | 13.0 | <0.001 | 1700 | <0.002 | <0.002 | 2.0 | <0.005 | 1.100 | 0.0072 | <0.002 | 0.026 |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | 0.363 | 5.3 | 1.280 | 0.38 | <0.005 | <0.001 | | <0.001 | 1400 | <0.002 | <0.002 | 1.9 | <0.005 | 0.540 | 0.0056 | <0.002 | 0.018 |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | 0.376 | 8.7 | 1.430 | 0.46 | <0.005 | <0.001 | | <0.001 | 1600 | <0.005 | <0.005 | 2.6 | <0.005 | 0.320 | 0.0096 | 0.024 | 0.016 |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.363 | 4.7 | 2.170 | 0.41 | <0.005 | <0.001 | | <0.001 | 1800 | <0.005 | <0.005 | 2.2 | <0.005 | 0.420 | 0.0079 | <0.005 | 0.017 |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.360 | 8.1 | 1.379 | 0.42 | 0 | 0 | 13.0 | 0 | 1660 | 0.0007 | 0 | 2.0 | 0 | 0.876 | 0.0089 | 0.0054 | 0.021 |
| Maximum | 0.376 | 13.0 | 2.170 | 0.46 | <0.005 | <0.001 | 13.0 | <0.001 | 1800 | 0.0034 | <0.005 | 2.6 | <0.005 | 2.000 | 0.014 | 0.024 | 0.027 |
| Minimum | 0.338 | 4.7 | 0.875 | 0.38 | <0.005 | <0.001 | 13.0 | <0.001 | 1400 | <0.002 | <0.002 | 1.5 | <0.005 | 0.320 | 0.0056 | <0.002 | 0.016 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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William A. Phipps
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 8/15/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 37.3 | 35.63 |
| Selenite [SE (IV)] | 67.4 | 64.37 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month September | Year 2006

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 06:00 | 11.00 | Y | | | | | | | | | | | |
| 5 | 06:30 | 11.00 | Y | | | | | | | | | | | |
| 6 | 06:00 | 9.00 | Y | 3.50 | 7.2 | | | | | <0.005 | 0.090 | 0.100 | | |
| 7 | 07:00 | 9.00 | B | | | | | | | | | | | |
| 8 | 06:30 | 7.00 | B | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 12 | 07:00 | 10.50 | Y | | | | | | | | | | | |
| 13 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 14 | 06:30 | 9.00 | Y | 2.78 | 7.2 | <1.8 | <5.0 | | | 0.0056 | 0.075 | 0.096 | | |
| 15 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | 06:00 | 5.00 | Y | | | | | | | | | | | |
| 19 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 20 | 06:00 | 10.80 | Y | | | | | | | | | | | |
| 21 | 06:15 | 10.00 | Y | 1.91 | 7.2 | | | | | <0.005 | 0.092 | 0.120 | | |
| 22 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 26 | 07:00 | 9.50 | Y | 3.25 | 6.6 | | | | | <0.005 | 0.007 | 0.037 | | |
| 27 | 07:00 | 9.50 | Y | | | | | | | | | | | |
| 28 | 06:00 | 10.50 | Y | | | | | | | | | | | |
| 29 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 2.86 | | 0 | 0 | | | 0.0014 | 0.066 | 0.088 | | |
| Maximum | | | | 3.50 | 7.2 | <1.8 | <5.0 | | | 0.0056 | 0.092 | 0.120 | | |
| Minimum | | | | 1.91 | 6.6 | <1.8 | <5.0 | | | <0.005 | 0.007 | 0.037 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month September | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | <0.001 | <0.001 | 120 | <0.005 | 1.1 | <0.005 | 0.170 | 0.015 | <0.005 | <0.010 | 0.043 | 0.191 | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | <0.001 | <0.001 | 110 | <0.005 | 0.82 | <0.005 | 0.200 | 0.017 | <0.005 | <0.010 | 0.032 | 0.132 | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | <0.001 | <0.001 | 310 | <0.005 | 0.92 | <0.005 | 0.250 | 0.017 | <0.005 | <0.010 | 0.035 | 0.0787 | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | <0.001 | <0.001 | 95 | <0.005 | 0.62 | <0.005 | 0.220 | 0.023 | <0.005 | <0.010 | 0.044 | 0.0539 | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0 | 159 | 0 | 0.86 | 0 | 0.210 | 0.018 | 0 | 0 | 0.038 | 0.1139 | | | |
| Maximum | <0.001 | <0.001 | 310 | <0.005 | 1.1 | <0.005 | 0.250 | 0.023 | <0.005 | <0.010 | 0.044 | 0.191 | | | |
| Minimum | <0.001 | <0.001 | 95 | <0.005 | 0.62 | <0.005 | 0.170 | 0.015 | <0.005 | <0.010 | 0.032 | 0.0539 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 002 Month September Year 2006
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Regina G. Elledge Grade P/C I Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant (2)
Check If ORC has Changed Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 42.0 | | | 0 | 0 | | | | | | | | |
| 2 | 305.5 | 40.0 | | | 120 | 120 | | | | | | | | |
| 3 | 305.5 | 38.5 | | | 120 | 120 | | | | | | | | |
| 4 | 305.5 | 37.7 | <20 | | 80 | 80 | | | | | | | | |
| 5 | 305.5 | 38.6 | | | 0 | 0 | | | | | | | | |
| 6 | 305.5 | 40.0 | | 8.2 | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 39.5 | | | 0 | 0 | | | | | | | | |
| 8 | 305.5 | 40.2 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 39.6 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 39.4 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 40.3 | 40 | | 60 | 80 | | | | | | | | |
| 12 | 305.5 | 39.8 | 40 | | 120 | 120 | | | | | | | | |
| 13 | 305.5 | 38.6 | 70 | | 120 | 120 | | | | | | | | |
| 14 | 305.5 | 38.9 | 50 | 8.4 | 120 | 120 | | | | | | | | |
| 15 | 305.5 | 38.7 | | | 0 | 0 | | | | | | | | |
| 16 | 305.5 | 37.2 | | | 120 | 120 | | | | | | | | |
| 17 | 305.5 | 37.7 | | | 120 | 120 | | | | | | | | |
| 18 | 305.5 | 38.5 | 30 | | 120 | 120 | | | | | | | | |
| 19 | 305.5 | 39.5 | 40 | | 120 | 120 | | | | | | | | |
| 20 | 259.1 | 36.3 | 40 | | 120 | 120 | | | | | | | | |
| 21 | 248.4 | 35.6 | 70 | 8.3 | 120 | 120 | | | | | | | | |
| 22 | 248.4 | 35.2 | | | 0 | 0 | | | | | | | | |
| 23 | 248.4 | 34.8 | | | 120 | 120 | | | | | | | | |
| 24 | 254.2 | 36.2 | | | 120 | 120 | | | | | | | | |
| 25 | 305.5 | 37.3 | <20 | | 60 | 40 | | | | | | | | |
| 26 | 305.5 | 37.0 | | 7.6 | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 37.2 | | | 0 | 0 | | | | | | | | |
| 28 | 291.9 | 35.3 | | | 0 | 0 | | | | | | | | |
| 29 | 244.1 | 33.6 | | | 0 | 0 | | | | | | | | |
| 30 | 243.9 | 33.1 | | | 0 | 0 | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 292.0 | 37.9 | 38 | | 59 | 59 | | | | | | | | |
| Maximum | 305.5 | 42.0 | 70 | 8.4 | 120 | 120 | | | | | | | | |
| Minimum | 243.9 | 33.1 | <20 | 7.6 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704 (828)684-4286 December 31, 2010
Permittee Address Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | September | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month September | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | 0.417 | 18 | 2.740 | 0.32 | <0.005 | <0.001 | <0.001 | 1200 | <0.005 | <0.005 | 1.8 | <0.005 | 0.170 | 0.0089 | <0.005 | 0.014 |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | 0.417 | 3.3 | 1.110 | 0.34 | <0.005 | <0.001 | <0.001 | 940 | <0.005 | <0.005 | 1.2 | <0.005 | 0.170 | 0.0087 | <0.005 | 0.021 |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | 0.363 | 10 | 0.662 | 0.47 | <0.005 | <0.001 | <0.001 | 2000 | <0.005 | <0.005 | 1.6 | <0.005 | 0.270 | 0.013 | <0.005 | 0.038 |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | 0.325 | 8 | 0.945 | 0.35 | <0.005 | <0.001 | <0.001 | 1500 | <0.005 | <0.005 | 1.6 | <0.005 | 0.240 | 0.013 | <0.005 | 0.013 |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.380 | 9.8 | 1.364 | 0.37 | 0 | 0 | 0 | 1410 | 0.0000 | 0 | 1.6 | 0 | 0.212 | 0.0109 | 0 | 0.022 |
| Maximum | 0.417 | 18 | 2.740 | 0.47 | <0.005 | <0.001 | <0.001 | 2000 | <0.005 | <0.005 | 1.8 | <0.005 | 0.270 | 0.013 | <0.005 | 0.038 |
| Minimum | 0.325 | 3.3 | 0.662 | 0.32 | <0.005 | <0.001 | <0.001 | 940 | <0.005 | <0.005 | 1.2 | <0.005 | 0.170 | 0.0087 | <0.005 | 0.013 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

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**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 9/21/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 74.1 | 58.39 |
| Selenite [SE (IV)] | 52.8 | 41.61 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month October | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | 07:00 | 5.00 | Y | | | | | | | | | | | |
| 3 | 06:30 | 9.50 | Y | 1.91 | 7.2 | | | | | <0.005 | 0.018 | 0.086 | | |
| 4 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 5 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 6 | 07:00 | 9.70 | Y | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 10 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 11 | 06:30 | 9.50 | Y | 3.25 | 8.0 | 4.6 | <5.0 | 43 | 0.595 | <0.005 | 0.047 | 0.086 | | |
| 12 | 06:30 | 9.80 | Y | | | | | | | | | | | |
| 13 | 06:30 | 6.20 | Y | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 17 | 07:00 | 9.00 | Y | | | | | | | | | | >7.6 | |
| 18 | 07:00 | 9.20 | Y | | | | | | | | | | | |
| 19 | 06:30 | 10.70 | Y | 3.25 | 6.8 | | | | | 0.028 | 0.086 | 0.057 | | |
| 20 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | 06:30 | 8.10 | Y | | | | | | | | | | | |
| 24 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 25 | 07:00 | 9.00 | Y | 2.78 | 6.6 | | | | | 0.019 | 0.054 | 0.043 | | |
| 26 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 27 | 07:00 | 7.00 | Y | | | | | | | | | | | |
| 28 | 07:00 | 3.50 | Y | | | | | | | | | | | |
| 29 | 07:20 | 0.20 | Y | | | | | | | | | | | |
| 30 | 06:20 | 9.00 | Y | | | | | | | | | | | |
| 31 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 2.80 | | 4.6 | 0 | 43 | 0.595 | 0.012 | 0.051 | 0.068 | >7.6 | |
| Maximum | | | | 3.25 | 8.0 | 4.6 | <5.0 | 43 | 0.595 | 0.028 | 0.086 | 0.086 | >7.6 | |
| Minimum | | | | 1.91 | 6.6 | 4.6 | <5.0 | 43 | 0.595 | <0.005 | 0.018 | 0.043 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | October | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | | **Phone** | (828) 687-5247 |
| **Certified Laboratories:** | (1) PACE Labs | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | <0.001 | <0.001 | 230 | <0.005 | 0.80 | <0.005 | 0.240 | 0.021 | <0.005 | <0.010 | 0.028 | 0.140 | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | <0.001 | <0.001 | 120 | <0.005 | 0.96 | <0.005 | 0.140 | 0.015 | <0.005 | <0.010 | 0.022 | 0.0722 | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | <0.001 | 0.0022 | 120 | <0.005 | 0.75 | <0.005 | 0.180 | 0.032 | <0.005 | <0.010 | 0.069 | 0.101 | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | <0.001 | 0.0025 | 57 | <0.005 | 0.92 | <0.005 | 0.180 | 0.032 | <0.005 | <0.010 | 0.067 | 0.274 | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| **Average** | 0 | 0.001175 | 132 | 0 | 0.86 | 0 | 0.185 | 0.025 | 0 | 0 | 0.046 | 0.147 | | | |
| **Maximum** | <0.001 | 0.0025 | 230 | <0.005 | 0.96 | <0.005 | 0.240 | 0.032 | <0.005 | <0.010 | 0.069 | 0.274 | | | |
| **Minimum** | <0.001 | <0.001 | 57 | <0.005 | 0.75 | <0.005 | 0.140 | 0.015 | <0.005 | <0.010 | 0.022 | 0.0722 | | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| **Monthly Limit** | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month October | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 240.9 | 32.7 | | | 0 | 0 | | | | | | | | |
| 2 | 240.7 | 33.0 | 120 | | 120 | 120 | | | | | | | | |
| 3 | 282.8 | 34.7 | <20 | 7.7 | 120 | 120 | | | | | | | | |
| 4 | 305.5 | 35.5 | 60 | | 120 | 120 | | | | | | | | |
| 5 | 305.5 | 36.5 | 100 | | 120 | 120 | | | | | | | | |
| 6 | 305.5 | 36.3 | | | 0 | 0 | | | | | | | | |
| 7 | 305.5 | 34.0 | | | 120 | 120 | | | | | | | | |
| 8 | 305.5 | 32.9 | | | 120 | 120 | | | | | | | | |
| 9 | 305.5 | 34.7 | 150 | | 120 | 120 | | | | | | | | |
| 10 | 305.5 | 35.7 | 120 | | 120 | 120 | | | | | | | | |
| 11 | 305.5 | 35.6 | 120 | 7.8 | 80 | 80 | | | | | | | | |
| 12 | 305.5 | 35.7 | | | 0 | 0 | | | | | | | | |
| 13 | 305.5 | 35.0 | | | 0 | 0 | | | | | | | | |
| 14 | 305.5 | 34.3 | | | 120 | 120 | | | | | | | | |
| 15 | 305.5 | 33.0 | | | 120 | 120 | | | | | | | | |
| 16 | 305.5 | 34.5 | <20 | | 60 | 40 | | | | | | | | |
| 17 | 305.5 | 32.9 | | | 0 | 0 | | | | | | | | |
| 18 | 305.5 | 32.9 | | | 0 | 0 | | | | | | | | |
| 19 | 305.5 | 33.5 | | 7.8 | 0 | 0 | | | | | | | | |
| 20 | 305.5 | 34.1 | | | 0 | 0 | | | | | | | | |
| 21 | 244.4 | 31.1 | | | 0 | 0 | | | | | | | | |
| 22 | 240.7 | 30.5 | | | 0 | 0 | | | | | | | | |
| 23 | 240.7 | 32.7 | | | 0 | 0 | | | | | | | | |
| 24 | 242.6 | 35.5 | | | 0 | 0 | | | | | | | | |
| 25 | 305.5 | 32.7 | | 7.2 | 0 | 0 | | | | | | | | |
| 26 | 305.5 | 33.2 | | | 0 | 0 | | | | | | | | |
| 27 | 305.5 | 33.2 | | | 0 | 0 | | | | | | | | |
| 28 | 305.5 | 31.7 | | | 0 | 0 | | | | | | | | |
| 29 | 318.3 | 31.1 | | | 0 | 0 | | | | | | | | |
| 30 | 305.5 | 31.9 | 70 | | 80 | 80 | | | | | | | | |
| 31 | 305.5 | 32.0 | 70 | | 120 | 120 | | | | | | | | |
| Average | 292.8 | 33.6 | 81 | | 50 | 49 | | | | | | | | |
| Maximum | 318.3 | 36.5 | 150 | 7.8 | 120 | 120 | | | | | | | | |
| Minimum | 240.7 | 30.5 | <20 | 7.2 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | October | Year | 2006 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Regina G. Elledge | Grade | P/C I | | Phone | (828) 687-5247 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month October | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | 0.312 | 8.0 | 0.984 | 0.380 | <0.005 | <0.001 | <0.001 | 1500 | 0.0056 | <0.005 | 1.2 | <0.005 | 0.096 | 0.011 | <0.005 | <0.010 |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | 0.403 | 17.0 | 0.590 | 0.470 | <0.005 | <0.001 | <0.001 | 1500 | 0.0094 | <0.005 | 1.8 | <0.005 | 0.075 | 0.0074 | <0.005 | <0.010 |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | 0.403 | 7.4 | 1.530 | 0.340 | <0.005 | <0.001 | <0.001 | 1100 | 0.011 | <0.005 | 1.8 | <0.005 | 0.072 | 0.014 | <0.005 | <0.010 |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | 0.350 | <1.8 | 3.590 | 0.290 | <0.005 | <0.001 | <0.001 | 510 | 0.022 | <0.005 | 2.8 | <0.005 | 0.034 | 0.011 | <0.005 | 0.011 |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.367 | 8.1 | 1.674 | 0.370 | 0 | 0 | 0 | 1152 | 0.0120 | 0 | 1.9 | 0 | 0.069 | 0.0108 | 0 | 0.003 |
| Maximum | 0.403 | 17.0 | 3.590 | 0.470 | <0.005 | <0.001 | <0.001 | 1500 | 0.022 | <0.005 | 2.8 | <0.005 | 0.096 | 0.014 | <0.005 | 0.011 |
| Minimum | 0.312 | <1.8 | 0.590 | 0.290 | <0.005 | <0.001 | <0.001 | 510 | 0.0056 | <0.005 | 1.2 | <0.005 | 0.034 | 0.0074 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 10/11/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 43.7 | 55.53 |
| Selenite [SE (IV)] | 35.0 | 44.47 |

AMENDED

# EFFLUENT

| | | | | | |
|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** November | **Year** 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** Buncombe | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | **Phone** | (828) 687-5247 |
| **Certified Laboratories:** | (1) PACE Labs | | (2) Asheville Steam Electric Plant | | |
| | (3) Applied Speciation and Consulting | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples:** | Lab Staff | | |

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 9.00 | Y | 3.25 | 6.3 | | | | | 0.026 | 0.170 | 0.049 | |
| 2 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 3 | 07:00 | 8.00 | Y | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | |
| 6 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 7 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 8 | 07:00 | 9.00 | Y | 5.10 | 6.8 | <3.3 | <5.0 | | | 0.010 | 0.140 | 0.065 | |
| 9 | 09:10 | 7.00 | Y | | | | | | | | | | |
| 10 | 05:00 | 8.00 | B | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | |
| 13 | 07:00 | 9.10 | Y | | | | | | | | | | |
| 14 | 07:00 | 9.00 | Y | 3.75 | 6.8 | | | | | 0.0058 | 0.110 | 0.059 | |
| 15 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 16 | 07:00 | 8.00 | Y | | | | | | | | | | |
| 17 | 07:00 | 8.00 | Y | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | |
| 20 | 06:00 | 10.00 | Y | | | | | | | | | | |
| 21 | 06:00 | 10.00 | Y | 3.50 | 6.4 | | | | | 0.0068 | 0.046 | 0.087 | |
| 22 | 05:30 | 9.00 | B | | | | | | | | | | |
| 23 | Holiday | | N | | | | | | | | | | |
| 24 | Holiday | | N | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | |
| 27 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 28 | 07:00 | 9.00 | Y | 1.51 | 6.4 | | | | | <0.005 | 0.074 | 0.180 | |
| 29 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 30 | 07:00 | 9.00 | Y | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| **Average** | | | | 3.42 | | 0 | 0 | | | 0.010 | 0.108 | 0.088 | |
| **Maximum** | | | | 5.10 | 6.8 | <3.3 | <5.0 | | | 0.026 | 0.170 | 0.180 | |
| **Minimum** | | | | 1.51 | 6.3 | <3.3 | <5.0 | | | <0.005 | 0.046 | 0.049 | |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **William A. Phipps** | | |
| Permittee (Please print or type) | Signature of Permittee** | Date |
| **200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

AMENDED

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month November | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0013 | 0.0038 | 31 | <0.005 | 0.72 | <0.005 | 0.180 | 0.043 | <0.005 | <0.010 | 0.110 | 0.170 | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | 0.0016 | 0.0032 | 37 | <0.005 | 1.1 | <0.005 | 0.150 | 0.032 | <0.005 | <0.010 | 0.083 | 0.0663 | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | <0.001 | 0.0025 | 69 | <0.005 | 0.85 | <0.005 | 0.140 | 0.032 | <0.005 | <0.010 | 0.071 | 0.110 | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | <0.001 | 0.0021 | 95 | <0.005 | 0.89 | <0.005 | 0.160 | 0.032 | <0.005 | <0.010 | 0.072 | 0.097 | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | <0.001 | 0.001 | 480 | <0.005 | 1.1 | <0.005 | 0.210 | 0.022 | <0.005 | <0.010 | 0.023 | 0.183 | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0.0006 | 0.0025 | 142 | 0 | 0.93 | 0 | 0.168 | 0.032 | 0 | 0 | 0.072 | 0.1253 | | | |
| Maximum | 0.0016 | 0.0038 | 480 | <0.005 | 1.1 | <0.005 | 0.210 | 0.043 | <0.005 | <0.010 | 0.110 | 0.183 | | | |
| Minimum | <0.001 | 0.001 | 31 | <0.005 | 0.72 | <0.005 | 0.140 | 0.022 | <0.005 | <0.010 | 0.023 | 0.0663 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

AMENDED

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month November | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
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North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.363 | 5.0 | 2.040 | 0.310 | <0.005 | <0.001 | <0.001 | 340 | 0.023 | <0.005 | 2.8 | <0.005 | 0.043 | 0.014 | <0.005 | 0.016 |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | 0.390 | 5.6 | 1.170 | 0.300 | <0.005 | <0.001 | <0.001 | 500 | 0.016 | <0.005 | 2.7 | <0.005 | 0.120 | 0.011 | <0.005 | <0.010 |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | 0.376 | 6.3 | 1.210 | 0.380 | <0.005 | <0.001 | <0.001 | 840 | 0.016 | <0.005 | 2.7 | <0.005 | 0.045 | 0.013 | <0.005 | <0.010 |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | 0.376 | 2.9 | 1.200 | 0.440 | <0.005 | <0.001 | <0.001 | 1100 | 0.012 | <0.005 | 2.1 | <0.005 | 0.023 | 0.014 | <0.005 | <0.010 |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | 0.390 | 3.8 | 0.701 | 0.560 | <0.005 | <0.001 | <0.001 | 1800 | 0.012 | <0.005 | 2.0 | <0.005 | 0.025 | 0.018 | <0.005 | <0.010 |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.379 | 4.7 | 1.264 | 0.398 | 0 | 0 | 0 | 916 | 0.016 | 0 | 2.5 | 0 | 0.051 | 0.014 | 0 | 0.003 |
| Maximum | 0.390 | 6.3 | 2.040 | 0.560 | <0.005 | <0.001 | <0.001 | 1800 | 0.023 | <0.005 | 2.8 | <0.005 | 0.120 | 0.018 | <0.005 | 0.016 |
| Minimum | 0.363 | 2.9 | 0.701 | 0.300 | <0.005 | <0.001 | <0.001 | 340 | 0.012 | <0.005 | 2.0 | <0.005 | 0.023 | 0.011 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2006

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 5 | 06:30 | 9.30 | Y | 3.25 | 6.6 | 6.8 | <0.005 | | | <0.005 | 0.054 | 0.109 | | |
| 6 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 7 | 07:00 | 7.00 | Y | | | | | | | | | | | |
| 8 | 05:00 | 8.50 | B | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 07:00 | 9.00 | Y | 3.01 | 6.3 | | | | | <0.005 | 0.060 | 0.130 | | |
| 12 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 06:00 | 10.00 | Y | 2.78 | | | | | | | | | | |
| 14 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 15 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 19 | 07:00 | 9.00 | Y | 1.91 | 6.4 | | | | | <0.005 | 0.071 | 0.150 | | |
| 20 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 21 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 22 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | Holiday | | N | | | | | | | | | | | |
| 26 | 07:00 | 5.00 | Y | 2.55 | 6.3 | | | | | 0.0066 | 0.038 | 0.080 | | |
| 27 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 28 | 06:30 | 9.70 | Y | | | | | | | | | | | |
| 29 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | N | | | | | | | | | | | |
| Average | | | | 2.70 | | 6.8 | 0 | | | 0.0016 | 0.056 | 0.117 | | |
| Maximum | | | | 3.25 | 6.6 | 6.8 | <5.0 | | | 0.0066 | 0.071 | 0.150 | | |
| Minimum | | | | 1.91 | 6.3 | 6.8 | <5.0 | | | <0.005 | 0.038 | 0.080 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

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## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | December | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | **Phone** | (828) 687-5247 | | |
| **Certified Laboratories:** | (1) PACE Labs | | (2) | | | | |
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**Raleigh, N. C. 27699-1617**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | <0.001 | 0.0012 | 230 | <0.005 | 0.92 | <0.005 | 0.160 | 0.025 | <0.005 | <0.010 | 0.036 | 0.0959 | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | <0.001 | 0.0011 | 270 | <0.005 | 1.20 | <0.005 | 0.150 | 0.023 | <0.005 | <0.010 | 0.032 | 0.0866 | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | <0.001 | <0.001 | 320 | <0.005 | 0.92 | <0.005 | 0.200 | 0.021 | <0.005 | <0.010 | 0.027 | 0.161 | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | <0.001 | 0.001 | 160 | <0.005 | 1.3 | <0.005 | 0.210 | 0.024 | <0.005 | <0.010 | 0.055 | 0.0665 | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0.0008 | 245 | 0 | 1.08 | 0 | 0.180 | 0.023 | 0 | 0 | 0.038 | 0.1025 | | | |
| Maximum | <0.001 | 0.0012 | 320 | <0.005 | 1.3 | <0.005 | 0.210 | 0.025 | <0.005 | <0.010 | 0.055 | 0.161 | | | |
| Minimum | <0.001 | <0.001 | 160 | <0.005 | 0.92 | <0.005 | 0.150 | 0.021 | <0.005 | <0.010 | 0.027 | 0.0665 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month December | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 30.1 | | | 0 | 0 | | | | | | | | |
| 2 | 305.5 | 30.2 | | | 0 | 0 | | | | | | | | |
| 3 | 305.5 | 30.7 | | | 0 | 0 | | | | | | | | |
| 4 | 305.5 | 30.1 | | | 0 | 0 | | | | | | | | |
| 5 | 305.5 | 29.5 | | 7.4 | 0 | 0 | | | | | | | | |
| 6 | 305.5 | 29.6 | | | 0 | 0 | | | | | | | | |
| 7 | 300.3 | 29.4 | | | 0 | 0 | | | | | | | | |
| 8 | 305.5 | 28.1 | | | 0 | 0 | | | | | | | | |
| 9 | 305.5 | 28.1 | | | 0 | 0 | | | | | | | | |
| 10 | 305.5 | 28.0 | | | 0 | 0 | | | | | | | | |
| 11 | 305.5 | 28.0 | | 7.4 | 0 | 0 | | | | | | | | |
| 12 | 272.6 | 27.0 | | | 0 | 0 | | | | | | | | |
| 13 | 208.2 | 27.2 | | | 0 | 0 | | | | | | | | |
| 14 | 240.7 | 25.8 | | | 0 | 0 | | | | | | | | |
| 15 | 177.1 | 28.5 | | | 0 | 0 | | | | | | | | |
| 16 | 238.4 | 25.8 | | | 0 | 0 | | | | | | | | |
| 17 | 240.7 | 24.9 | | | 0 | 0 | | | | | | | | |
| 18 | 150.9 | 29.0 | | | 0 | 0 | | | | | | | | |
| 19 | 150.0 | 29.2 | | 7.2 | 0 | 0 | | | | | | | | |
| 20 | 179.5 | 27.8 | | | 0 | 0 | | | | | | | | |
| 21 | 240.7 | 26.4 | | | 0 | 0 | | | | | | | | |
| 22 | 206.0 | 25.4 | | | 0 | 0 | | | | | | | | |
| 23 | 183.6 | 26.0 | | | 0 | 0 | | | | | | | | |
| 24 | 183.6 | 26.5 | | | 0 | 0 | | | | | | | | |
| 25 | 183.6 | 26.6 | | | 0 | 0 | | | | | | | | |
| 26 | 164.7 | 26.4 | | 6.8 | 0 | 0 | | | | | | | | |
| 27 | 90.7 | 31.2 | | | 0 | 0 | | | | | | | | |
| 28 | 90.7 | 30.6 | | | 0 | 0 | | | | | | | | |
| 29 | 139.9 | 28.1 | | | 0 | 0 | | | | | | | | |
| 30 | 183.7 | 25.0 | | | 0 | 0 | | | | | | | | |
| 31 | 183.6 | 25.2 | | | 0 | 0 | | | | | | | | |
| Average | 227.9 | 27.9 | | | 0 | 0 | | | | | | | | |
| Maximum | 305.5 | 31.2 | | 7.4 | 0 | 0 | | | | | | | | |
| Minimum | 90.7 | 24.9 | | 6.8 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | December | **Year** | 2006 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month December | Year 2006
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | 0.390 | 7.0 | 0.717 | 0.570 | <0.005 | <0.001 | <0.001 | 1900 | 0.011 | <0.005 | 2.1 | <0.005 | 0.037 | 0.013 | <0.005 | <0.010 |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | 0.403 | 4.0 | 0.487 | 0.580 | <0.005 | <0.001 | <0.001 | 1900 | 0.0097 | <0.005 | 2.0 | <0.005 | 0.026 | 0.014 | <0.005 | <0.010 |
| 12 | | | | | | | | | | | | | | | | |
| 13 | 0.417 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | 0.376 | 4.2 | 0.785 | 0.400 | <0.005 | <0.001 | <0.001 | 1600 | 0.012 | <0.005 | 1.3 | <0.005 | 0.024 | 0.014 | <0.005 | <0.010 |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | 0.363 | <1.8 | 0.483 | 0.260 | <0.005 | <0.001 | <0.001 | 1100 | 0.010 | <0.005 | 2.0 | <0.005 | 0.150 | 0.016 | <0.005 | <0.010 |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.390 | 3.8 | 0.618 | 0.452 | 0 | 0 | 0 | 1625 | 0.011 | 0 | 1.8 | 0 | 0.059 | 0.014 | 0 | 0 |
| Maximum | 0.417 | 7.0 | 0.785 | 0.580 | <0.005 | <0.001 | <0.001 | 1900 | 0.012 | <0.005 | 2.1 | <0.005 | 0.150 | 0.016 | <0.005 | <0.010 |
| Minimum | 0.363 | <1.8 | 0.483 | 0.260 | <0.005 | <0.001 | <0.001 | 1100 | 0.0097 | <0.005 | 1.3 | <0.005 | 0.024 | 0.013 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 12/5/2006

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 71.8 | 64.68 |
| Selenite [SE (IV)] | 39.2 | 35.32 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month January | Year 2007

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock | Operator Time On Site | * ORC On Site | 50050 Flow Effluent Daily Rate | 00400 pH | 00530 Total Suspended Residue | 00556 Oil & Grease | 00600 Total Nitrogen | 00665 Total Phosphorous | 01042 Total Copper | 1002 Total Arsenic | 1147 Total Selenium | THP3B Chronic Toxicity | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hrs | Hrs | Y/B/N | MGD | Units | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | % Eff | |
| 1 | Holiday | | | | | | | | | | | | | |
| 2 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 3 | 06:30 | 9.50 | Y | 3.01 | 6.3 | 5.3 | <5.0 | 12.0 | <0.1 | 0.0074 | 0.013 | 0.071 | >7.6 | |
| 4 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 5 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 06:30 | 8.50 | Y | | | | | | | | | | | |
| 9 | 07:00 | 9.00 | Y | 1.91 | 6.1 | | | | | 0.0096 | <0.005 | 0.064 | | |
| 10 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 11 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 12 | 06:30 | 8.50 | Y | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 16 | 07:00 | 9.00 | Y | 3.25 | 6.3 | | | | | 0.014 | 0.005 | 0.051 | | |
| 17 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 18 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 19 | 06:30 | 4.00 | B | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 23 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 24 | 06:00 | 9.00 | Y | 3.25 | 6.2 | | | | | <0.005 | 0.039 | 0.096 | | |
| 25 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 26 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 30 | 07:00 | 9.00 | Y | 3.75 | 6.4 | | | | | <0.005 | 0.033 | 0.063 | | |
| 31 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 3.03 | | 5.3 | 0 | 12.0 | 0 | 0.0062 | 0.018 | 0.069 | >7.6 | |
| Maximum | | | | 3.75 | 6.4 | 5.3 | <5.0 | 12.0 | <0.1 | 0.014 | 0.039 | 0.096 | >7.6 | |
| Minimum | | | | 1.91 | 6.1 | 5.3 | <5.0 | 12.0 | <0.1 | <0.005 | <0.005 | 0.051 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month January | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | <0.001 | <0.001 | 180 | <0.005 | 0.87 | 0.014 | 0.24 | 0.031 | <0.005 | <0.010 | 0.061 | 0.0693 | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | <0.001 | <0.001 | 220 | <0.005 | 0.66 | 0.020 | 0.29 | 0.032 | <0.005 | <0.010 | 0.079 | 0.0834 | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | <0.001 | 0.0014 | 82 | <0.005 | 0.90 | 0.010 | 0.23 | 0.034 | <0.005 | <0.010 | 0.074 | 0.0477 | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | <0.001 | 0.0013 | 150 | <0.005 | 1.0 | <0.005 | 0.22 | 0.032 | <0.005 | 0.010 | 0.053 | 0.0615 | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | <0.001 | 0.0015 | 89 | <0.005 | 0.84 | <0.005 | 0.18 | 0.028 | <0.005 | <0.010 | 0.044 | 0.0566 | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0.0008 | 144 | 0 | 0.85 | 0.0088 | 0.23 | 0.031 | 0 | 0.002 | 0.062 | 0.0637 | | | |
| Maximum | <0.001 | 0.0015 | 220 | <0.005 | 1.0 | 0.020 | 0.29 | 0.034 | <0.005 | 0.010 | 0.079 | 0.0834 | | | |
| Minimum | <0.001 | <0.001 | 82 | <0.005 | 0.66 | <0.005 | 0.18 | 0.028 | <0.005 | <0.010 | 0.044 | 0.0477 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month January | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 184.5 | 23.5 | | | 0 | 0 | | | | | | | | |
| 2 | 234.7 | 24.4 | | | 0 | 0 | | | | | | | | |
| 3 | 183.6 | 28.9 | | 7.3 | 0 | 0 | | | | | | | | |
| 4 | 183.6 | 24.5 | | | 0 | 0 | | | | | | | | |
| 5 | 183.6 | 22.3 | | | 0 | 0 | | | | | | | | |
| 6 | 135.0 | 21.7 | | | 0 | 0 | | | | | | | | |
| 7 | 92.9 | 31.8 | | | 0 | 0 | | | | | | | | |
| 8 | 92.9 | 29.3 | | | 0 | 0 | | | | | | | | |
| 9 | 92.9 | 31.3 | | 6.7 | 0 | 0 | | | | | | | | |
| 10 | 169.1 | 26.2 | | | 0 | 0 | | | | | | | | |
| 11 | 248.4 | 24.4 | | | 0 | 0 | | | | | | | | |
| 12 | 248.4 | 23.8 | | | 0 | 0 | | | | | | | | |
| 13 | 248.4 | 26.2 | | | 0 | 0 | | | | | | | | |
| 14 | 187.9 | 26.9 | | | 0 | 0 | | | | | | | | |
| 15 | 183.6 | 29.2 | | | 0 | 0 | | | | | | | | |
| 16 | 183.6 | 29.8 | | 7.2 | 0 | 0 | | | | | | | | |
| 17 | 183.6 | 31.1 | | | 0 | 0 | | | | | | | | |
| 18 | 183.6 | 31.0 | | | 0 | 0 | | | | | | | | |
| 19 | 183.6 | 28.0 | | | 0 | 0 | | | | | | | | |
| 20 | 143.8 | 27.0 | | | 0 | 0 | | | | | | | | |
| 21 | 92.9 | 31.5 | | | 0 | 0 | | | | | | | | |
| 22 | 107.3 | 29.8 | | | 0 | 0 | | | | | | | | |
| 23 | 248.4 | 22.9 | | | 0 | 0 | | | | | | | | |
| 24 | 248.4 | 24.8 | | 7.2 | 0 | 0 | | | | | | | | |
| 25 | 248.4 | 25.5 | | | 0 | 0 | | | | | | | | |
| 26 | 248.4 | 25.6 | | | 0 | 0 | | | | | | | | |
| 27 | 248.4 | 25.5 | | | 0 | 0 | | | | | | | | |
| 28 | 206.1 | 27.6 | | | 0 | 0 | | | | | | | | |
| 29 | 183.6 | 30.5 | | | 0 | 0 | | | | | | | | |
| 30 | 183.6 | 30.7 | | 6.9 | 0 | 0 | | | | | | | | |
| 31 | 183.6 | 30.2 | | | 0 | 0 | | | | | | | | |
| Average | 185.4 | 27.3 | | | 0 | 0 | | | | | | | | |
| Maximum | 248.4 | 31.8 | | 7.3 | 0 | 0 | | | | | | | | |
| Minimum | 92.9 | 21.7 | | 6.7 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | January | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month January | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | 0.403 | <3.3 | 0.487 | 0.33 | <0.005 | <0.001 | <0.001 | 1400 | 0.0052 | <0.005 | 1.3 | 0.085 | 0.120 | 0.016 | <0.005 | <0.010 |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | 0.390 | 6.7 | 0.506 | 0.24 | <0.005 | <0.001 | <0.001 | 1100 | 0.0074 | <0.005 | 1.8 | 0.065 | 0.053 | 0.012 | <0.005 | <0.010 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | 0.338 | 4.4 | 0.409 | 0.36 | <0.005 | <0.001 | <0.001 | 1600 | 0.0089 | <0.005 | 1.6 | 0.084 | 0.077 | 0.016 | <0.005 | <0.010 |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | 0.376 | 2 | 0.454 | 0.41 | <0.005 | <0.001 | 0.001 | 1800 | 0.012 | <0.005 | 1.6 | 0.0065 | 0.026 | 0.017 | <0.005 | <0.010 |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | 0.390 | 15 | 0.581 | 0.29 | <0.005 | <0.001 | 0.0014 | 2400 | 0.014 | <0.005 | 1.3 | 0.0074 | 0.048 | 0.018 | <0.005 | 0.014 |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.379 | 5.6 | 0.487 | 0.33 | 0 | 0 | 0.0005 | 1660 | 0.0095 | 0 | 1.5 | 0.04958 | 0.065 | 0.016 | 0 | 0.003 |
| Maximum | 0.403 | 15 | 0.581 | 0.41 | <0.005 | <0.001 | 0.0014 | 2400 | 0.014 | <0.005 | 1.8 | 0.085 | 0.120 | 0.018 | <0.005 | 0.014 |
| Minimum | 0.338 | <3.3 | 0.409 | 0.24 | <0.005 | <0.001 | <0.001 | 1100 | 0.0052 | <0.005 | 1.3 | 0.0065 | 0.026 | 0.012 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 1/3/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 52 | 67.97 |
| Selenite [SE (IV)] | 24.5 | 32.03 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month February | Year 2007

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 5.50 | Y | | | | | | | | | | | |
| 2 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 6 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 7 | 07:00 | 9.00 | Y | 2.33 | 6.6 | | | | | <0.005 | 0.048 | 0.077 | | |
| 8 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 9 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 06:30 | 7.00 | Y | | | | | | | | | | | |
| 13 | 06:30 | 9.50 | Y | 3.01 | 8.3 | 2.4 | <5.0 | | | <0.005 | 0.068 | 0.062 | | |
| 14 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 15 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 16 | 05:00 | 5.00 | B | | | | | | | | | | | |
| 17 | | | Y | | | | | | | | | | | |
| 18 | | | Y | | | | | | | | | | | |
| 19 | 10:00 | 6.00 | Y | | | | | | | | | | | |
| 20 | 06:30 | 9.50 | Y | 3.50 | 6.5 | | | | | <0.002 | 0.088 | 0.077 | | |
| 21 | 07:00 | 6.50 | Y | | | | | | | | | | | |
| 22 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 23 | 06:00 | 4.00 | Y | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 27 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 28 | 07:00 | 9.00 | Y | 3.50 | 6.6 | | | | | 0.002 | 0.033 | 0.079 | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.08 | | 2.4 | 0 | | | 0.0005 | 0.059 | 0.074 | | |
| Maximum | | | | 3.50 | 8.3 | 2.4 | <5.0 | | | 0.002 | 0.088 | 0.079 | | |
| Minimum | | | | 2.33 | 6.5 | 2.4 | <5.0 | | | <0.002 | 0.033 | 0.062 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month February | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | <0.001 | 0.0012 | 99 | <0.005 | 0.82 | <0.005 | 0.21 | 0.024 | <0.005 | <0.010 | 0.025 | 0.0497 | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | <0.001 | 0.0011 | 65 | <0.005 | 1.4 | <0.005 | 0.15 | 0.022 | <0.005 | <0.010 | 0.023 | 0.0743 | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | <0.001 | 0.0012 | 140 | <0.005 | <0.10 | <0.005 | 0.16 | 0.025 | <0.005 | <0.010 | 0.020 | 0.0527 | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | <0.001 | 0.002 | 150 | <0.005 | 0.8 | 0.018 | 0.19 | 0.029 | <0.005 | <0.010 | 0.057 | 0.0656 | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0.0014 | 114 | 0 | 0.76 | 0.004 | 0.18 | 0.025 | 0 | 0 | 0.031 | 0.0606 | | | |
| Maximum | <0.001 | 0.002 | 150 | <0.005 | 1.4 | 0.018 | 0.21 | 0.029 | <0.005 | <0.010 | 0.057 | 0.0743 | | | |
| Minimum | <0.001 | 0.0011 | 65 | <0.005 | <0.10 | <0.005 | 0.15 | 0.022 | <0.005 | <0.010 | 0.020 | 0.0497 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month February | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 30.3 | | | 0 | 0 | | | | | | | | |
| 2 | 183.6 | 27.6 | | | 0 | 0 | | | | | | | | |
| 3 | 132.1 | 28.1 | | | 0 | 0 | | | | | | | | |
| 4 | 189.9 | 17.8 | | | 0 | 0 | | | | | | | | |
| 5 | 95.6 | 22.2 | | | 0 | 0 | | | | | | | | |
| 6 | 98.3 | 26.9 | | | 0 | 0 | | | | | | | | |
| 7 | 188.0 | 22.9 | | 6.9 | 0 | 0 | | | | | | | | |
| 8 | 240.7 | 24.8 | | | 0 | 0 | | | | | | | | |
| 9 | 240.7 | 25.5 | | | 0 | 0 | | | | | | | | |
| 10 | 240.7 | 25.7 | | | 0 | 0 | | | | | | | | |
| 11 | 240.7 | 24.9 | | | 0 | 0 | | | | | | | | |
| 12 | 235.2 | 25.2 | | | 0 | 0 | | | | | | | | |
| 13 | 183.6 | 27.6 | | 7.5 | 0 | 0 | | | | | | | | |
| 14 | 183.6 | 28.5 | | | 0 | 0 | | | | | | | | |
| 15 | 183.6 | 29.3 | | | 0 | 0 | | | | | | | | |
| 16 | 183.6 | 29.2 | | | 0 | 0 | | | | | | | | |
| 17 | 183.6 | 29.5 | | | 0 | 0 | | | | | | | | |
| 18 | 183.6 | 28.1 | | | 0 | 0 | | | | | | | | |
| 19 | 183.6 | 29.4 | | | 0 | 0 | | | | | | | | |
| 20 | 183.6 | 28.9 | | 7.0 | 0 | 0 | | | | | | | | |
| 21 | 183.6 | 26.0 | | | 0 | 0 | | | | | | | | |
| 22 | 183.6 | 27.3 | | | 0 | 0 | | | | | | | | |
| 23 | 183.6 | 30.0 | | | 0 | 0 | | | | | | | | |
| 24 | 183.6 | 31.2 | | | 0 | 0 | | | | | | | | |
| 25 | 183.6 | 30.0 | | | 0 | 0 | | | | | | | | |
| 26 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | | |
| 27 | 183.6 | 30.7 | | | 0 | 0 | | | | | | | | |
| 28 | 183.6 | 30.9 | | 7.2 | 0 | 0 | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 186.0 | 27.4 | | | 0 | 0 | | | | | | | | |
| Maximum | 240.7 | 31.2 | | 7.5 | 0 | 0 | | | | | | | | |
| Minimum | 95.6 | 17.8 | | 6.9 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | February | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month February | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | 0.363 | 24.0 | 0.261 | 0.270 | <0.005 | <0.001 | <0.001 | 880 | 0.011 | <0.005 | 0.1 | 0.0072 | 0.015 | 0.014 | <0.005 | <0.010 |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | 0.363 | 21.0 | 0.672 | 0.290 | <0.005 | <0.001 | 0.0013 | 1600 | 0.011 | <0.005 | 1.7 | 0.0099 | 0.034 | 0.019 | <0.005 | 0.015 |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | 0.363 | 2.2 | 0.455 | 0.380 | <0.005 | <0.001 | 0.0012 | 1800 | 0.019 | <0.002 | 1.5 | <0.005 | 0.029 | 0.02 | <0.005 | <0.010 |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | 0.376 | 4.7 | 0.781 | 0.490 | <0.005 | <0.001 | 0.0011 | 2600 | 0.019 | <0.002 | 1.9 | 0.11 | 0.036 | 0.0072 | <0.005 | <0.010 |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.366 | 13.0 | 0.542 | 0.358 | 0 | 0 | 0.0009 | 1720 | 0.015 | 0 | 1.3 | 0.0318 | 0.028 | 0.015 | 0 | 0.004 |
| Maximum | 0.376 | 24.0 | 0.781 | 0.490 | <0.005 | <0.001 | 0.0013 | 2600 | 0.019 | <0.005 | 1.9 | 0.11 | 0.036 | 0.02 | <0.005 | 0.015 |
| Minimum | 0.363 | 2.2 | 0.261 | 0.270 | <0.005 | <0.001 | <0.001 | 880 | 0.011 | <0.002 | 0.1 | <0.005 | 0.015 | 0.0072 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 2/7/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 39.0 | 61.81 |
| Selenite [SE (IV)] | 24.1 | 38.19 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2007

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
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Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 2 | 05:30 | 8.00 | B | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 6 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 7 | 07:00 | 9.00 | Y | 3.25 | 6.4 | 5.8 | 5.6 | | | <0.002 | 0.016 | 0.093 | | |
| 8 | 07:00 | 10.00 | Y | | | | | | | | | | | |
| 9 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 07:15 | 9.00 | Y | | | | | | | | | | | |
| 13 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 14 | 07:00 | 9.00 | Y | 3.01 | 6.1 | | | | | 0.0082 | 0.0065 | 0.058 | | |
| 15 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 16 | 05:30 | 8.00 | Y | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 20 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 21 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 22 | 06:00 | 10.00 | Y | 1.51 | 6.0 | | | | | 0.018 | <0.005 | 0.092 | | |
| 23 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 27 | 07:00 | 9.00 | Y | 1.33 | 6.1 | | | | | 0.020 | 0.007 | 0.100 | | |
| 28 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 29 | 06:30 | 10.00 | Y | | | | | | | | | | | |
| 30 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 31 | | | N | | | | | | | | | | | |
| Average | | | | 2.28 | | 5.8 | 6 | | | 0.0116 | 0.0074 | 0.086 | | |
| Maximum | | | | 3.25 | 6.4 | 5.8 | 5.6 | | | 0.020 | 0.016 | 0.100 | | |
| Minimum | | | | 1.33 | 6.0 | 5.8 | 5.6 | | | <0.002 | <0.005 | 0.058 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | <0.001 | 0.0016 | 130 | <0.005 | 1.0 | <0.005 | 0.17 | 0.026 | <0.005 | <0.010 | 0.062 | 0.0463 | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | <0.001 | 0.0016 | 110 | <0.005 | 0.62 | <0.005 | 0.22 | 0.029 | <0.005 | <0.010 | 0.073 | 0.0637 | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | <0.001 | 0.0016 | 8200 | 0.0054 | 0.72 | <0.005 | 0.29 | 0.027 | <0.005 | <0.010 | 0.070 | 0.199 | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | <0.001 | 0.0018 | 520 | 0.0053 | 1.1 | <0.005 | 0.33 | 0.028 | <0.005 | <0.010 | 0.055 | 0.288 | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| Average | 0 | 0.0016 | 2240 | 0.0027 | 0.86 | 0 | 0.25 | 0.028 | 0 | 0 | 0.065 | 0.1492 | | | |
| Maximum | <0.001 | 0.0018 | 8200 | 0.0054 | 1.1 | <0.005 | 0.33 | 0.029 | <0.005 | <0.010 | 0.073 | 0.2880 | | | |
| Minimum | <0.001 | 0.0016 | 110 | <0.005 | 0.62 | <0.005 | 0.17 | 0.026 | <0.005 | <0.010 | 0.055 | 0.0463 | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month March | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 32.1 | | | 0 | 0 | | | | | | | | |
| 2 | 183.6 | 28.7 | | | 0 | 0 | | | | | | | | |
| 3 | 183.6 | 32.5 | | | 0 | 0 | | | | | | | | |
| 4 | 183.6 | 31.8 | | | 0 | 0 | | | | | | | | |
| 5 | 183.6 | 32.8 | | | 0 | 0 | | | | | | | | |
| 6 | 183.6 | 32.3 | | | 0 | 0 | | | | | | | | |
| 7 | 183.6 | 29.7 | | 7.0 | 0 | 0 | | | | | | | | |
| 8 | 183.6 | 31.3 | | | 0 | 0 | | | | | | | | |
| 9 | 183.6 | 32.8 | | | 0 | 0 | | | | | | | | |
| 10 | 154.6 | 29.6 | | | 0 | 0 | | | | | | | | |
| 11 | 161.1 | 28.8 | | | 0 | 0 | | | | | | | | |
| 12 | 188.5 | 31.9 | | | 0 | 0 | | | | | | | | |
| 13 | 183.6 | 35.5 | | | 0 | 0 | | | | | | | | |
| 14 | 195.3 | 33.3 | | 6.9 | 0 | 0 | | | | | | | | |
| 15 | 240.7 | 32.4 | | | 0 | 0 | | | | | | | | |
| 16 | 237.7 | 32.9 | | | 0 | 0 | | | | | | | | |
| 17 | 183.6 | 28.1 | | | 0 | 0 | | | | | | | | |
| 18 | 156.0 | 29.1 | | | 0 | 0 | | | | | | | | |
| 19 | 90.7 | 34.0 | | | 0 | 0 | | | | | | | | |
| 20 | 90.7 | 32.9 | | | 0 | 0 | | | | | | | | |
| 21 | 90.7 | 33.4 | | | 0 | 0 | | | | | | | | |
| 22 | 90.7 | 33.9 | | 7.1 | 0 | 0 | | | | | | | | |
| 23 | 90.7 | 33.3 | | | 0 | 0 | | | | | | | | |
| 24 | 90.7 | 33.5 | | | 0 | 0 | | | | | | | | |
| 25 | 90.7 | 32.4 | | | 0 | 0 | | | | | | | | |
| 26 | 90.7 | 33.1 | | | 0 | 0 | | | | | | | | |
| 27 | 90.7 | 33.9 | | 7.2 | 0 | 0 | | | | | | | | |
| 28 | 90.7 | 33.8 | | | 0 | 0 | | | | | | | | |
| 29 | 90.7 | 33.8 | | | 0 | 0 | | | | | | | | |
| 30 | 90.7 | 33.4 | | | 0 | 0 | | | | | | | | |
| 31 | 90.7 | 34.3 | | | 0 | 0 | | | | | | | | |
| Average | 146.2 | 32.3 | | | 0 | 0 | | | | | | | | |
| Maximum | 240.7 | 35.5 | | 7.2 | 0 | 0 | | | | | | | | |
| Minimum | 90.7 | 28.1 | | 6.9 | 0 | 0 | | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | March | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month March | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | 0.390 | 8.6 | 0.362 | 0.520 | <0.005 | <0.001 | 0.001 | 1600 | 0.018 | <0.002 | 2.0 | 0.01 | 0.033 | 0.0052 | <0.005 | <0.010 |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | 0.376 | 11.0 | 0.634 | 0.440 | <0.005 | <0.001 | 0.001 | 1200 | 0.016 | <0.002 | 1.8 | 0.0077 | 0.041 | 0.0084 | <0.005 | 0.01 |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | 0.363 | 3.6 | 0.866 | 0.380 | <0.005 | <0.001 | <0.001 | 1900 | 0.019 | <0.002 | 1.5 | 0.0072 | 0.068 | 0.0064 | <0.005 | 0.012 |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | 0.363 | 7.5 | 1.29 | 0.410 | <0.005 | <0.001 | 0.0012 | 2100 | 0.018 | <0.002 | 2.1 | 0.009 | 0.12 | 0.01 | <0.005 | 0.014 |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.373 | 7.7 | 0.788 | 0.438 | 0 | 0 | 0.0008 | 1700 | 0.018 | 0 | 1.8 | 0.0085 | 0.066 | 0.008 | 0 | 0.009 |
| Maximum | 0.390 | 11.0 | 1.290 | 0.520 | <0.005 | <0.001 | 0.0012 | 2100 | 0.019 | <0.002 | 2.1 | 0.01 | 0.120 | 0.01 | <0.005 | 0.014 |
| Minimum | 0.363 | 3.6 | 0.362 | 0.380 | <0.005 | <0.001 | <0.001 | 1200 | 0.016 | <0.002 | 1.5 | 0.0072 | 0.033 | 0.0052 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 3/7/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 71.0 | 79.42 |
| Selenite [SE (IV)] | 18.4 | 20.58 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month April | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock | Operator Time On Site | * ORC On Site | 50050 Flow Effluent Daily Rate | 00400 pH | 00530 Total Suspended Residue | 00556 Oil & Grease | 00600 Total Nitrogen | 00665 Total Phosphorous | 01042 Total Copper | 1002 Total Arsenic | 1147 Total Selenium | THP3B Chronic Toxicity | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hrs | Hrs | Y/B/N | MGD | Units | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | % Eff | |
| 1 | | | N | | | | | | | | | | | |
| 2 | 06:00 | 10.50 | Y | 1.15 | 6.5 | 2.2 | <5.0 | 13.0 | 0.153 | 0.015 | 0.016 | 0.054 | | |
| 3 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 4 | 07:00 | 8.50 | Y | | | | | | | | | | | |
| 5 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 6 | Holiday | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | 06:30 | 9.00 | Y | | | | | | | | | | | |
| 10 | 07:00 | 9.00 | Y | 1.15 | 6.5 | | | | | 0.004 | 0.0069 | 0.075 | >7.6 | |
| 11 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 12 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 09:20 | 2.00 | Y | | 6.9 | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | 10:30 | 6.00 | Y | | | | | | | | | | | |
| 17 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 18 | 06:30 | 9.00 | Y | 1.51 | 6.6 | | | | | <0.002 | 0.016 | 0.067 | | |
| 19 | 05:00 | 10.50 | B | | | | | | | | | | | |
| 20 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 24 | 06:00 | 9.70 | Y | 1.91 | 6.4 | | | | | 0.034 | 0.021 | 0.042 | | |
| 25 | 07:00 | 6.80 | Y | | | | | | | | | | | |
| 26 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 27 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | 07:00 | 9.00 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 1.43 | | 2.2 | 0 | 13.0 | 0.153 | 0.0130 | 0.0150 | 0.060 | >7.6 | |
| Maximum | | | | 1.91 | 6.9 | 2.2 | <5.0 | 13.0 | 0.153 | 0.034 | 0.021 | 0.075 | >7.6 | |
| Minimum | | | | 1.15 | 6.4 | 2.2 | <5.0 | 13.0 | 0.153 | <0.002 | 0.0069 | 0.042 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2007

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock | Operator Time On Site | * ORC On Site | 50050 Flow Effluent Daily Rate | 00400 pH | 00530 Total Suspended Residue | 00556 Oil & Grease | 00600 Total Nitrogen | 00665 Total Phosphorous | 01042 Total Copper | 1002 Total Arsenic | 1147 Total Selenium | THP3B Chronic Toxicity | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hrs | Hrs | Y/B/N | MGD | Units | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | % Eff | |
| 1 | 06:00 | 10.10 | Y | 1.91 | 6.9 | <1.8 | <5.0 | | | 0.0081 | 0.011 | 0.049 | | |
| 2 | 09:00 | 7.20 | Y | | | | | | | | | | | |
| 3 | 06:00 | 9.20 | Y | | | | | | | | | | | |
| 4 | 06:00 | 8.50 | Y | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 07:00 | 9.00 | B | | | | | | | | | | | |
| 8 | 07:00 | 9.00 | B | | | | | | | | | | | |
| 9 | 07:00 | 9.00 | B | 2.33 | 7.0 | | | | | 0.0500 | 0.012 | 0.047 | | |
| 10 | 07:00 | 9.00 | B | | | | | | | | | | | |
| 11 | 07:00 | 8.50 | B | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 15 | 06:30 | 9.50 | Y | 2.78 | 7.9 | | | | | 0.0380 | 0.019 | 0.042 | | |
| 16 | 06:00 | 9.50 | Y | | | | | | | | | | | |
| 17 | 06:30 | 10.00 | Y | | | | | | | | | | | |
| 18 | 06:30 | 6.50 | Y | | | | | | | | | | | |
| 19 | 16:10 | 1.00 | Y | | | | | | | | | | | |
| 20 | 14:10 | 1.00 | Y | | | | | | | | | | | |
| 21 | 06:00 | 10.30 | Y | | | | | | | | | | | |
| 22 | 06:00 | 9.00 | Y | 2.11 | 7.1 | | | | | 0.0063 | 0.014 | 0.064 | | |
| 23 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 24 | 06:30 | 7.00 | B | | | | | | | | | | | |
| 25 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | 05:30 | 6.50 | B | | | | | | | | | | | |
| 28 | Holiday | | N | | | | | | | | | | | |
| 29 | 06:00 | 10.50 | Y | | | | | | | | | | | |
| 30 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 31 | 06:00 | 11.00 | Y | 2.33 | 7.1 | | | | | 0.0280 | 0.014 | 0.059 | | |
| Average | | | | 2.29 | | 0.0 | 0 | | | 0.0261 | 0.014 | 0.052 | | |
| Maximum | | | | 2.78 | 7.9 | <1.8 | <5.0 | | | 0.050 | 0.019 | 0.064 | | |
| Minimum | | | | 1.91 | 6.9 | <1.8 | <5.0 | | | 0.0063 | 0.011 | 0.042 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828)684-4286
Phone Number

December 31, 2010
Permit Exp. Date

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | <0.001 | 0.0013 | 190 | <0.005 | 0.76 | <0.005 | 0.27 | 0.026 | <0.005 | <0.010 | 0.027 | 0.496 | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | <0.001 | <0.001 | 180 | <0.005 | 0.69 | 0.0079 | 0.24 | 0.024 | <0.005 | <0.010 | 0.021 | 0.257 | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | <0.001 | <0.001 | 180 | <0.005 | 0.68 | 0.0082 | 0.20 | 0.020 | <0.005 | <0.010 | 0.013 | 0.223 | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | <0.001 | <0.001 | 310 | <0.005 | 1.0 | <0.005 | 0.29 | 0.022 | <0.005 | <0.010 | 0.022 | 0.196 | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | <0.001 | <0.001 | 240 | <0.005 | 1.0 | <0.005 | 0.20 | 0.020 | <0.005 | <0.010 | 0.016 | 0.257 | | |
| Average | 0 | 0.0003 | 220 | 0 | 0.83 | 0.0032 | 0.24 | 0.022 | 0 | 0 | 0.020 | 0.286 | | |
| Maximum | <0.001 | 0.0013 | 310 | <0.005 | 1.0 | 0.0082 | 0.29 | 0.026 | <0.005 | <0.010 | 0.027 | 0.496 | | |
| Minimum | <0.001 | <0.001 | 180 | <0.005 | 0.68 | <0.005 | 0.20 | 0.020 | <0.005 | <0.010 | 0.013 | 0.196 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

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**William A. Phipps**
Permittee (Please print or type) | Signature of Permittee** | Date

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**December 31, 2010**
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# EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 002 Month May Year 2007
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Regina G. Elledge Grade P/C I Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant (2)
Check If ORC has Changed Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 118.1 | 32.5 | | 7.2 | 0 | 0 | | | | | | | |
| 2 | 155.5 | 29.2 | | | 0 | 0 | | | | | | | |
| 3 | 162.2 | 29.1 | | | 0 | 0 | | | | | | | |
| 4 | 213.0 | 28.6 | | | 0 | 0 | | | | | | | |
| 5 | 219.4 | 28.8 | | | 0 | 0 | | | | | | | |
| 6 | 218.8 | 29.1 | | | 0 | 0 | | | | | | | |
| 7 | 305.5 | 28.5 | | | 0 | 0 | | | | | | | |
| 8 | 287.3 | 32.1 | | | 0 | 0 | | | | | | | |
| 9 | 248.4 | 34.7 | | 7.5 | 0 | 0 | | | | | | | |
| 10 | 248.4 | 34.7 | | | 0 | 0 | | | | | | | |
| 11 | 248.4 | 35.5 | | | 0 | 0 | | | | | | | |
| 12 | 248.4 | 34.3 | | | 0 | 0 | | | | | | | |
| 13 | 248.4 | 35.0 | | | 0 | 0 | | | | | | | |
| 14 | 248.4 | 36.2 | | | 0 | 0 | | | | | | | |
| 15 | 248.4 | 36.0 | | 7.9 | 0 | 0 | | | | | | | |
| 16 | 248.4 | 36.8 | | | 0 | 0 | | | | | | | |
| 17 | 248.4 | 37.2 | | | 0 | 0 | | | | | | | |
| 18 | 248.4 | 35.5 | | | 0 | 0 | | | | | | | |
| 19 | 248.4 | 30.2 | | | 0 | 0 | | | | | | | |
| 20 | 208.7 | 31.3 | | | 0 | 0 | | | | | | | |
| 21 | 248.4 | 30.2 | | | 0 | 0 | | | | | | | |
| 22 | 248.4 | 35.5 | | 7.4 | 0 | 0 | | | | | | | |
| 23 | 248.4 | 36.4 | | | 0 | 0 | | | | | | | |
| 24 | 273.3 | 35.4 | | | 0 | 0 | | | | | | | |
| 25 | 293.9 | 35.3 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 34.9 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 34.8 | | | 0 | 0 | | | | | | | |
| 28 | 238.8 | 34.0 | | | 0 | 0 | | | | | | | |
| 29 | 203.4 | 35.0 | | | 0 | 0 | | | | | | | |
| 30 | 305.5 | 35.7 | | | 0 | 0 | | | | | | | |
| 31 | 305.5 | 37.0 | | 7.4 | 0 | 0 | | | | | | | |
| Average | 245.1 | 33.5 | | | 0 | 0 | | | | | | | |
| Maximum | 305.5 | 37.2 | | 7.9 | 0 | 0 | | | | | | | |
| Minimum | 118.1 | 28.5 | | 7.2 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee**

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Permittee Address

**(828)684-4286**
Phone Number

**December 31, 2010**
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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | May | Year | 2007 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Regina G. Elledge | Grade | P/C I | | Phone | (828) 687-5247 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| William A. Phipps | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| 200 CP&L Drive | Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010 |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month May | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.350 | 3.3 | 2.2 | 0.230 | <0.005 | <0.001 | <0.001 | 1100 | 0.0064 | <0.002 | 1.2 | <0.005 | 0.20 | <0.005 | <0.005 | <0.010 |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | 0.253 | 2.6 | 1.6 | 0.280 | <0.005 | <0.001 | <0.001 | 1200 | 0.0071 | 0.03 | 1.1 | 0.0054 | 0.14 | <0.005 | <0.005 | <0.010 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | 0.363 | 9.0 | 1.8 | 0.260 | <0.005 | <0.001 | <0.001 | 1400 | 0.420 | 0.037 | 1.3 | 0.0069 | 0.17 | 0.15 | <0.005 | 0.01 |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | 0.338 | 7.5 | 1.5 | 0.310 | <0.005 | <0.001 | <0.001 | 1700 | 0.012 | <0.002 | 1.6 | <0.005 | 0.17 | 0.0068 | <0.005 | 0.015 |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | 0.363 | 18.0 | 1.8 | 0.400 | <0.005 | <0.001 | <0.001 | 1800 | 0.0063 | <0.002 | 1.9 | <0.005 | 0.13 | 0.006 | <0.005 | 0.011 |
| Average | 0.333 | 8.1 | 1.8 | 0.296 | 0 | 0 | 0 | 1440 | 0.090 | 0.013 | 1.4 | 0.0025 | 0.16 | 0.0326 | 0 | 0.007 |
| Maximum | 0.363 | 18.0 | 2.2 | 0.400 | <0.005 | <0.001 | <0.001 | 1800 | 0.420 | 0.037 | 1.9 | 0.0069 | 0.20 | 0.15 | <0.005 | 0.015 |
| Minimum | 0.253 | 2.6 | 1.5 | 0.230 | <0.005 | <0.001 | <0.001 | 1100 | 0.0063 | <0.002 | 1.1 | <0.005 | 0.13 | <0.005 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 5/1/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 46.9 | 83.75 |
| Selenite [SE (IV)] | 9.1 | 16.25 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month June | Year 2007

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:30 | 10.50 | Y | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 07:30 | 10.50 | B | | | | | | | | | | | |
| 5 | 07:40 | 8.50 | B | | | | | | | | | | | |
| 6 | 07:30 | 10.30 | B | 2.78 | 7.3 | | | | | 0.024 | 0.015 | 0.064 | | |
| 7 | 07:30 | 9.50 | B | | | | | | | | | | | |
| 8 | 07:35 | 8.50 | B | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 06:30 | 10.00 | Y | | | | | | | | | | | |
| 12 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 13 | 06:00 | 10.20 | Y | | | | | | | | | | | |
| 14 | 06:00 | 9.50 | Y | 1.70 | 7.3 | 4.0 | <5.0 | | | 0.016 | 0.014 | 0.081 | | |
| 15 | 06:00 | 7.50 | Y | | | | | | | | | | | |
| 16 | 04:45 | 8.25 | Y | | | | | | | | | | | |
| 17 | 05:40 | 3.30 | Y | | | | | | | | | | | |
| 18 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 19 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 20 | 06:00 | 9.00 | Y | 2.55 | 7.8 | | | | | 0.017 | 0.018 | 0.060 | | |
| 21 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 22 | 06:30 | 9.50 | Y | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 26 | 06:00 | 10.80 | Y | | | | | | | | | | | |
| 27 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 28 | 06:00 | 9.00 | Y | 3.01 | 8.5 | | | | | 0.026 | 0.025 | 0.057 | | |
| 29 | 06:00 | 8.00 | Y | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 2.51 | | 4.0 | 0 | | | 0.021 | 0.018 | 0.066 | | |
| Maximum | | | | 3.01 | 8.5 | 4.0 | <5.0 | | | 0.026 | 0.025 | 0.081 | | |
| Minimum | | | | 1.70 | 7.3 | 4.0 | <5.0 | | | 0.016 | 0.014 | 0.057 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

William A. Phipps
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | June | **Year** 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | (828) 687-5247 |
| **Certified Laboratories:** | (1) PACE Labs | | (2) | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | <0.001 | <0.001 | 210 | <0.005 | 0.86 | <0.005 | 0.240 | 0.028 | <0.005 | <0.010 | 0.021 | 0.303 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | <0.001 | <0.001 | 270 | 0.066 | 1.1 | <0.005 | 0.290 | 0.050 | <0.005 | <0.010 | 0.024 | 0.490 | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | <0.001 | 0.001 | 190 | <0.005 | 0.94 | <0.005 | 0.280 | 0.025 | <0.005 | <0.010 | 0.022 | 0.744 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | <0.001 | <0.001 | 230 | <0.005 | 0.99 | <0.005 | 0.250 | 0.020 | <0.005 | <0.010 | 0.014 | 0.671 | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 0 | 0.0002 | 225 | 0.016 | 0.97 | 0 | 0.265 | 0.031 | 0 | 0 | 0.020 | 0.552 | | |
| Maximum | <0.001 | 0.001 | 270 | 0.066 | 1.1 | <0.005 | 0.290 | 0.050 | <0.005 | <0.010 | 0.024 | 0.744 | | |
| Minimum | <0.001 | <0.001 | 190 | <0.005 | 0.86 | <0.005 | 0.240 | 0.020 | <0.005 | <0.010 | 0.014 | 0.303 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements

All monitoring data and sampling frequencies do NOT meet permit requirements XXXX

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 002 Month June Year 2007
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Regina G. Elledge Grade P/C I Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant (2)
Check If ORC has Changed Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 37.0 | | | 0 | 0 | | | | | | | |
| 2 | 305.5 | 36.5 | | | 0 | 0 | | | | | | | |
| 3 | 305.5 | 36.2 | | | 0 | 0 | | | | | | | |
| 4 | 305.5 | 37.2 | | | 0 | 0 | | | | | | | |
| 5 | 305.5 | 37.5 | | | 0 | 0 | | | | | | | |
| 6 | 305.5 | 38.2 | | 7.4 | 0 | 0 | | | | | | | |
| 7 | 305.5 | 38.7 | | | 0 | 0 | | | | | | | |
| 8 | 305.5 | 39.4 | | | 0 | 0 | | | | | | | |
| 9 | 305.5 | 37.9 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 38.2 | | | 0 | 0 | | | | | | | |
| 11 | 305.5 | 39.0 | | | 0 | 0 | | | | | | | |
| 12 | 265.9 | 36.8 | | | 0 | 0 | | | | | | | |
| 13 | 240.7 | 35.9 | | | 0 | 0 | | | | | | | |
| 14 | 206.4 | 37.1 | | 7.4 | 0 | 0 | | | | | | | |
| 15 | 184.6 | 38.4 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 36.3 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 37.5 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 38.5 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 39.7 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 38.9 | | 7.6 | 0 | 0 | | | | | | | |
| 21 | 305.5 | 38.7 | | | 0 | 0 | | | | | | | |
| 22 | 289.4 | 36.2 | | | 0 | 0 | | | | | | | |
| 23 | 248.4 | 36.7 | | | 0 | 0 | | | | | | | |
| 24 | 248.4 | 36.6 | | | 0 | 0 | | | | | | | |
| 25 | 271.1 | 37.9 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 40.1 | 20 | | 80 | 80 | | | | | | | |
| 27 | 305.5 | 39.9 | <20 | | 120 | 120 | | | | | | | |
| 28 | 305.5 | 41.2 | 40 | 7.9 | 120 | 120 | | | | | | | |
| 29 | 305.5 | 41.6 | | | 0 | 0 | | | | | | | |
| 30 | 305.5 | 40.7 | | | 120 | 120 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 289.2 | 38.2 | 20 | | 15 | 15 | | | | | | | |
| Maximum | 305.5 | 41.6 | 40 | 7.9 | 120 | 120 | | | | | | | |
| Minimum | 184.6 | 35.9 | <20 | 7.4 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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Signature of Permittee**

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | June | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **William A. Phipps** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month June | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | 0.312 | 16.0 | 2.4 | 0.450 | <0.005 | <0.001 | <0.001 | 1700 | 0.023 | <0.002 | 1.7 | <0.005 | 0.28 | 0.013 | <0.005 | 0.013 |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | 0.350 | 17.0 | 3.7 | 0.320 | <0.005 | <0.001 | <0.001 | 1400 | 0.0056 | <0.002 | 1.7 | <0.005 | 0.28 | <0.005 | <0.005 | 0.015 |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | 0.325 | 44.0 | 6.8 | 0.260 | <0.005 | <0.001 | <0.001 | 1400 | 0.0058 | <0.002 | 1.4 | <0.005 | 0.32 | <0.005 | <0.005 | <0.010 |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | 0.350 | 25.0 | 4.8 | 0.290 | <0.005 | <0.001 | <0.001 | 1800 | <0.005 | <0.002 | 1.7 | <0.005 | 0.22 | 0.0067 | <0.005 | <0.010 |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.334 | 25.5 | 4.4 | 0.330 | 0 | 0 | 0 | 1575 | 0.009 | 0 | 1.6 | 0 | 0.28 | 0.0049 | 0 | 0.007 |
| Maximum | 0.350 | 44.0 | 6.8 | 0.450 | <0.005 | <0.001 | <0.001 | 1800 | 0.023 | <0.002 | 1.7 | <0.005 | 0.32 | 0.013 | <0.005 | 0.015 |
| Minimum | 0.312 | 16.0 | 2.4 | 0.260 | <0.005 | <0.001 | <0.001 | 1400 | <0.005 | <0.002 | 1.4 | <0.005 | 0.22 | <0.005 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**William A. Phipps**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 6/14/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 72.3 | 79.71 |
| Selenite [SE (IV)] | 18.4 | 20.29 |

## EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 001 Month July Year 2007
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Regina G. Elledge Grade P/C I Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting (4) Environmental Testing Solutions
Check If ORC has Changed Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | |
| 2 | 06:00 | 9.00 | Y | | | | | | | | | | |
| 3 | 06:00 | 10.00 | Y | 2.78 | 8.7 | 3.6 | <5.0 | 18.0 | <0.1 | 0.0150 | 0.031 | 0.054 | |
| 4 | | | N | | | | | | | | | | |
| 5 | 06:00 | 9.00 | Y | | | | | | | | | | |
| 6 | 05:45 | 8.00 | B | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | |
| 9 | 06:00 | 9.00 | Y | | | | | | | | | | |
| 10 | 06:00 | 6.00 | Y | | | | | | | | | | >7.6 |
| 11 | 06:00 | 9.50 | Y | | | | | | | | | | |
| 12 | 06:00 | 9.00 | Y | 1.91 | 8.0 | | | | | 0.0083 | 0.034 | 0.129 | |
| 13 | 06:00 | 9.00 | Y | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | |
| 16 | 07:00 | 9.00 | B | | | | | | | | | | |
| 17 | 06:00 | 9.00 | Y | | | | | | | | | | |
| 18 | 06:00 | 9.50 | Y | 3.25 | 8.1 | | | | | 0.0120 | 0.036 | 0.110 | |
| 19 | 06:00 | 9.00 | Y | | | | | | | | | | |
| 20 | 06:00 | 5.50 | Y | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | |
| 23 | 07:00 | 11.00 | B | | | | | | | | | | |
| 24 | 07:00 | 11.00 | B | 2.78 | 7.6 | | | | | 0.0045 | 0.037 | 0.081 | |
| 25 | 05:30 | 10.50 | B | | | | | | | | | | |
| 26 | 07:00 | 10.00 | B | | | | | | | | | | |
| 27 | 07:00 | 5.00 | B | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | |
| 30 | 05:30 | 8.50 | Y | | | | | | | | | | |
| 31 | 06:00 | 9.00 | Y | | | | | | | | | | |
| Average | | | | 2.68 | | 3.6 | 0 | 18.0 | 0 | 0.010 | 0.034 | 0.094 | >7.6 |
| Maximum | | | | 3.25 | 8.7 | 3.6 | <5.0 | 18.0 | <0.1 | 0.015 | 0.037 | 0.129 | >7.6 |
| Minimum | | | | 1.91 | 7.6 | 3.6 | <5.0 | 18.0 | <0.1 | 0.005 | 0.031 | 0.054 | >7.6 |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements XXXX
All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704 (828)684-4286 December 31, 2010
Permittee Address Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | July | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | | **Phone** | (828) 687-5247 |
| **Certified Laboratories:** | (1) PACE Labs | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | <0.001 | <0.001 | 210 | <0.005 | 1.1 | <0.005 | 0.190 | 0.018 | <0.005 | <0.010 | 0.021 | 0.421 | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | <0.001 | <0.001 | 400 | <0.005 | 1.2 | <0.005 | 0.320 | 0.018 | <0.005 | <0.010 | 0.082 | 0.391 | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | <0.001 | <0.001 | 280 | <0.005 | 0.89 | <0.005 | 0.270 | 0.019 | <0.005 | <0.010 | 0.040 | 0.132 | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | <0.001 | <0.001 | 260 | <0.005 | 0.82 | <0.005 | 0.210 | 0.016 | <0.005 | <0.010 | 0.035 | 0.136 | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 0 | 0.0000 | 288 | 0 | 1.0 | 0 | 0.248 | 0.018 | 0 | 0 | 0.044 | 0.270 | | |
| Maximum | <0.001 | <0.001 | 400 | <0.005 | 1.2 | <0.005 | 0.320 | 0.019 | <0.005 | <0.010 | 0.082 | 0.421 | | |
| Minimum | <0.001 | <0.001 | 210 | <0.005 | 0.82 | <0.005 | 0.190 | 0.016 | <0.005 | <0.010 | 0.021 | 0.132 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive** **Arden, N.C.** **28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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# EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 002 Month July Year 2007
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Regina G. Elledge Grade P/C I Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant (2)
Check If ORC has Changed Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 40.2 | | | 120 | 120 | | | | | | | |
| 2 | 305.5 | 40.2 | 30 | | 120 | 120 | | | | | | | |
| 3 | 305.5 | 39.7 | 30 | 8.0 | 120 | 120 | | | | | | | |
| 4 | 305.5 | 39.5 | Holiday | | 120 | 120 | | | | | | | |
| 5 | 305.5 | 40.0 | 30 | | 120 | 120 | | | | | | | |
| 6 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 7 | 305.5 | 40.5 | | | 120 | 120 | | | | | | | |
| 8 | 282.1 | 38.1 | | | 120 | 120 | | | | | | | |
| 9 | 240.7 | 38.6 | 40 | | 80 | 80 | | | | | | | |
| 10 | 240.7 | 38.8 | | | 0 | 0 | | | | | | | |
| 11 | 240.7 | 38.5 | | | 0 | 0 | | | | | | | |
| 12 | 262.0 | 38.2 | | 8.0 | 0 | 0 | | | | | | | |
| 13 | 305.5 | 40.5 | | | 0 | 0 | | | | | | | |
| 14 | 305.5 | 39.8 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 39.6 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 41.2 | 40 | | 80 | 80 | | | | | | | |
| 18 | 305.5 | 41.3 | <20 | 8.0 | 60 | 60 | | | | | | | |
| 19 | 305.5 | 41.7 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 41.4 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 40.7 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 40.7 | | | 0 | 0 | | | | | | | |
| 23 | 305.5 | 40.6 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 40.9 | | 7.5 | 0 | 0 | | | | | | | |
| 25 | 305.5 | 41.0 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 40.9 | | | 0 | 0 | | | | | | | |
| 28 | 305.5 | 41.5 | | | 0 | 0 | | | | | | | |
| 29 | 305.5 | 40.9 | | | 0 | 0 | | | | | | | |
| 30 | 305.5 | 41.2 | | | 0 | 0 | | | | | | | |
| 31 | 305.5 | 41.7 | 40 | | 60 | 60 | | | | | | | |
| Average | 297.1 | 40.3 | 30 | | 36 | 36 | | | | | | | |
| Maximum | 305.5 | 41.7 | 40 | 8.0 | 120 | 120 | | | | | | | |
| Minimum | 240.7 | 38.1 | <20 | 7.5 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | July | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month July | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | 0.363 | 28.0 | 3.6 | 0.340 | <0.005 | <0.001 | <0.001 | 1900 | 0.0079 | <0.002 | 2.1 | <0.005 | 0.200 | 0.012 | <0.005 | 0.019 |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | 0.417 | 50.0 | 2.3 | 0.430 | <0.005 | <0.001 | 0.001 | 1900 | 0.015 | <0.002 | 1.7 | <0.005 | 0.23 | 0.010 | <0.005 | 0.082 |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | 0.431 | 7.4 | 1.0 | 0.440 | <0.005 | <0.001 | <0.001 | 1500 | 0.016 | <0.002 | 1.4 | <0.005 | 0.16 | 0.0068 | <0.005 | 0.026 |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | 0.338 | 1.0 | 0.71 | 0.430 | <0.005 | <0.001 | <0.001 | 1800 | 0.012 | <0.002 | 1.4 | <0.005 | 0.14 | 0.0066 | <0.005 | 0.016 |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.387 | 21.6 | 1.90 | 0.410 | 0 | 0 | 0.00025 | 1775 | 0.013 | 0 | 1.6 | 0 | 0.18 | 0.0088 | 0 | 0.036 |
| Maximum | 0.431 | 50.0 | 3.6 | 0.440 | <0.005 | <0.001 | 0.001 | 1900 | 0.016 | <0.002 | 2.1 | <0.005 | 0.23 | 0.012 | <0.005 | 0.082 |
| Minimum | 0.338 | 1.0 | 0.71 | 0.340 | <0.005 | <0.001 | <0.001 | 1500 | 0.0079 | <0.002 | 1.4 | <0.005 | 0.14 | 0.0066 | <0.005 | 0.016 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 7/12/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 98.6 | 81.96 |
| Selenite [SE (IV)] | 21.7 | 18.04 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month August | Year 2007

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 9.50 | Y | 2.78 | 7.6 | | | | | 0.0097 | 0.040 | 0.060 | | |
| 2 | 06:30 | 7.00 | Y | | | | | | | | | | | |
| 3 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 7 | 06:00 | 9.00 | Y | 3.25 | 7.7 | <1.8 | <5.0 | | | 0.0160 | 0.039 | 0.071 | | |
| 8 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 9 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 10 | 06:00 | 8.00 | Y | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | 06:00 | 8.50 | Y | | | | | | | | | | | |
| 14 | 06:00 | 9.00 | Y | 3.01 | 7.5 | | | | | 0.0053 | 0.0474 | 0.0631 | | |
| 15 | 06:00 | 10.80 | Y | | | | | | | | | | | |
| 16 | 06:00 | 8.20 | Y | | | | | | | | | | | |
| 17 | 07:30 | 8.00 | B | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | 08:00 | 7.80 | B | | | | | | | | | | | |
| 21 | 07:40 | 8.90 | B | | | | | | | | | | | |
| 22 | 08:00 | 10.00 | B | 2.78 | 7.1 | | | | | <0.005 | 0.0408 | 0.0862 | | |
| 23 | 06:50 | 10.20 | B | | | | | | | | | | | |
| 24 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 28 | 06:00 | 10.50 | Y | 3.01 | 7.2 | | | | | <0.005 | 0.0454 | 0.0883 | | |
| 29 | 06:00 | 9.50 | Y | | | | | | | | | | | |
| 30 | 06:00 | 11.50 | Y | | | | | | | | | | | |
| 31 | 05:30 | 8.00 | B | | | | | | | | | | | |
| Average | | | | 2.97 | | 0 | 0 | | | 0.0062 | 0.0425 | 0.0737 | | |
| Maximum | | | | 3.25 | 7.7 | <1.8 | <5.0 | | | 0.0160 | 0.0474 | 0.0883 | | |
| Minimum | | | | 2.78 | 7.1 | <1.8 | <5.0 | | | <0.005 | 0.039 | 0.060 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month August | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | <0.001 | 0.0012 | 200 | <0.005 | 0.72 | <0.005 | 0.300 | 0.022 | <0.005 | <0.010 | 0.036 | 0.0530 | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | <0.001 | 0.0014 | 260 | <0.005 | 0.85 | <0.005 | 0.240 | 0.022 | <0.005 | <0.010 | 0.032 | 0.0408 | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | <0.001 | <0.001 | 197 | <0.005 | 0.63 | <0.005 | 0.179 | 0.0169 | <0.005 | <0.010 | 0.0284 | 0.0222 | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | <0.001 | 0.0011 | 236 | <0.005 | 0.76 | <0.005 | 0.159 | 0.0164 | <0.005 | <0.010 | 0.0183 | 0.0308 | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | <0.001 | 0.0014 | 216 | <0.005 | 0.57 | <0.005 | 0.185 | 0.0193 | <0.005 | <0.010 | 0.0203 | 0.0640 | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 0 | 0.0010 | 222 | 0 | 0.71 | 0 | 0.213 | 0.0193 | 0 | 0 | 0.0270 | 0.0422 | | |
| Maximum | <0.001 | 0.0014 | 260 | <0.005 | 0.85 | <0.005 | 0.300 | 0.022 | <0.005 | <0.010 | 0.036 | 0.0640 | | |
| Minimum | <0.001 | <0.001 | 197 | <0.005 | 0.57 | <0.005 | 0.159 | 0.0164 | <0.005 | <0.010 | 0.0183 | 0.0222 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

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Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
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# EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 002 Month August Year 2007
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Regina G. Elledge Grade P/C I Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant (2)
Check If ORC has Changed Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 43.0 | 50 | 7.9 | 120 | 120 | | | | | | | |
| 2 | 305.5 | 42.4 | 50 | | 120 | 120 | | | | | | | |
| 3 | 305.5 | 43.6 | | | 0 | 0 | | | | | | | |
| 4 | 305.5 | 42.4 | | | 120 | 120 | | | | | | | |
| 5 | 305.5 | 42.3 | | | 120 | 120 | | | | | | | |
| 6 | 305.5 | 43.4 | 40 | | 120 | 120 | | | | | | | |
| 7 | 305.5 | 44.2 | 30 | 7.9 | 120 | 120 | | | | | | | |
| 8 | 305.5 | 45.3 | 30 | | 120 | 120 | | | | | | | |
| 9 | 305.5 | 45.8 | 30 | | 120 | 120 | | | | | | | |
| 10 | 305.5 | 45.7 | | | 0 | 0 | | | | | | | |
| 11 | 305.5 | 44.6 | | | 120 | 120 | | | | | | | |
| 12 | 305.5 | 44.3 | | | 120 | 120 | | | | | | | |
| 13 | 305.5 | 45.2 | 40 | | 120 | 120 | | | | | | | |
| 14 | 305.5 | 45.7 | 40 | 7.6 | 120 | 120 | | | | | | | |
| 15 | 305.5 | 45.3 | <30 | | 80 | 80 | | | | | | | |
| 16 | 305.5 | 45.3 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 46.5 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 43.1 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 44.4 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 45.0 | | 7.7 | 0 | 0 | | | | | | | |
| 23 | 305.5 | 45.0 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 44.6 | | | 0 | 0 | | | | | | | |
| 25 | 305.5 | 44.7 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 44.7 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 44.5 | | | 0 | 0 | | | | | | | |
| 28 | 305.5 | 44.2 | 90 | 7.4 | 80 | 80 | | | | | | | |
| 29 | 305.5 | 44.3 | 50 | | 120 | 120 | | | | | | | |
| 30 | 305.5 | 44.5 | 60 | | 80 | 80 | | | | | | | |
| 31 | 305.5 | 44.0 | | | 0 | 0 | | | | | | | |
| Average | 305.5 | 44.2 | 42 | | 58 | 58 | | | | | | | |
| Maximum | 305.5 | 46.5 | 90 | 7.9 | 120 | 120 | | | | | | | |
| Minimum | 305.5 | 40.4 | <30 | 7.4 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | August | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month August | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.242 | 6.0 | 0.49 | 0.390 | <0.005 | <0.001 | 0.0013 | 1800 | 0.013 | <0.002 | 1.6 | <0.005 | 0.42 | 0.010 | <0.005 | 0.033 |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | 0.363 | 4.0 | 0.32 | 0.440 | <0.005 | <0.001 | <0.001 | 1900 | 0.016 | <0.002 | 1.6 | <0.005 | 0.25 | 0.0082 | <0.005 | 0.026 |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | 0.350 | 10.7 | 0.61 | 0.397 | <0.005 | <0.001 | 0.001 | 2000 | 0.0153 | <0.005 | 1.3 | <0.005 | 0.196 | 0.0074 | <0.005 | 0.0275 |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | 0.253 | 5.7 | 0.42 | 0.494 | <0.005 | <0.001 | 0.0011 | 2110 | 0.0157 | <0.005 | 1.5 | <0.005 | 0.114 | 0.0062 | <0.005 | 0.0182 |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | 0.363 | <3.3 | 0.62 | 0.385 | <0.005 | <0.001 | <0.001 | 1780 | 0.0131 | <0.005 | 1.1 | <0.005 | 0.153 | 0.0053 | <0.005 | <0.010 |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.314 | 5.3 | 0.49 | 0.421 | 0 | 0 | 0.0007 | 1918 | 0.0146 | 0 | 1.4 | 0 | 0.227 | 0.0074 | 0 | 0.0209 |
| Maximum | 0.363 | 10.7 | 0.62 | 0.494 | <0.005 | <0.001 | 0.0013 | 2110 | 0.016 | <0.005 | 1.6 | <0.005 | 0.42 | 0.010 | <0.005 | 0.033 |
| Minimum | 0.242 | <3.3 | 0.32 | 0.385 | <0.005 | <0.001 | <0.001 | 1780 | 0.013 | <0.002 | 1.1 | <0.005 | 0.114 | 0.0053 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 8/7/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 45.8 | 72.24 |
| Selenite [SE (IV)] | 17.6 | 27.76 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month September | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 06:15 | 8.30 | B | | | | | | | | | | | |
| 4 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 5 | 05:15 | 11.00 | B | 3.50 | 7.0 | | | | | <0.005 | 0.0652 | 0.1060 | | |
| 6 | 06:30 | 8.00 | B | | | | | | | | | | | |
| 7 | 07:30 | 10.00 | B | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 11 | 06:00 | 10.50 | Y | | | | | | | | | | | |
| 12 | 06:00 | 11.20 | Y | 3.01 | 7.2 | 3.3 | <5.0 | | | <0.005 | 0.0725 | 0.0944 | | |
| 13 | 06:00 | 10.50 | Y | | | | | | | | | | | |
| 14 | 06:00 | 8.20 | Y | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 06:00 | 9.70 | Y | | | | | | | | | | | |
| 18 | 06:00 | 11.00 | Y | | | | | | | | | | | |
| 19 | 06:00 | 9.00 | Y | 3.01 | 7.1 | | | | | 0.0069 | 0.0404 | 0.0782 | | |
| 20 | 05:54 | 4.30 | Y | | | | | | | | | | | |
| 21 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 06:00 | 11.50 | Y | | | | | | | | | | | |
| 25 | 06:00 | 9.50 | Y | 1.15 | 6.5 | | | | | 0.0160 | 0.0354 | 0.1480 | | |
| 26 | 06:00 | 9.50 | Y | | | | | | | | | | | |
| 27 | 06:00 | 9.50 | Y | | | | | | | | | | | |
| 28 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 29 | 02:05 | 6.30 | B | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 2.67 | | 3.3 | 0 | | | 0.0057 | 0.0534 | 0.1066 | | |
| Maximum | | | | 3.50 | 7.2 | 3.3 | <5.0 | | | 0.0160 | 0.0725 | 0.1480 | | |
| Minimum | | | | 1.15 | 6.5 | 3.3 | <5.0 | | | <0.005 | 0.0354 | 0.0782 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements XXXX
All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month October | Year 2007

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
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North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 2 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 3 | 06:00 | 9.00 | Y | 2.33 | 7.2 | | | | | 0.0120 | 0.0256 | 0.0557 | | |
| 4 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 5 | 06:00 | 8.00 | Y | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 9 | 06:00 | 9.00 | Y | 3.25 | 7.5 | <2.0 | <5.0 | 10.6 | <0.10 | 0.0310 | 0.0218 | 0.0708 | | |
| 10 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 11 | 06:00 | 9.50 | Y | | | | | | | | | | | |
| 12 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 16 | 06:00 | 9.50 | Y | 3.01 | 7.3 | | | | | 0.0255 | 0.0238 | 0.0829 | >7.6 | |
| 17 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 18 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 19 | 06:00 | 8.00 | Y | | 6.8 | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 06:00 | 10.00 | Y | 2.55 | 7.2 | | | | | 0.0284 | 0.0165 | 0.0798 | | |
| 23 | 06:00 | 2.00 | Y | | | | | | | | | | | |
| 24 | 07:00 | 10.00 | B | | | | | | | | | | | |
| 25 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 26 | 06:00 | 9.50 | B | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | 06:00 | 8.50 | Y | | | | | | | | | | | |
| 30 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 31 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 2.78 | | 0 | 0 | 10.6 | 0 | 0.0242 | 0.0219 | 0.0723 | >7.6 | |
| Maximum | | | | 3.25 | 7.5 | <2.0 | <5.0 | 10.6 | <0.10 | 0.0310 | 0.0256 | 0.0829 | >7.6 | |
| Minimum | | | | 2.33 | 6.8 | <2.0 | <5.0 | 10.6 | <0.10 | 0.0120 | 0.0165 | 0.0557 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month October | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | <0.001 | 0.0016 | 180 | <0.005 | 1.40 | <0.005 | 0.241 | 0.0247 | <0.005 | <0.010 | 0.0439 | 0.0240 | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | <0.001 | 0.0016 | 155 | <0.005 | 0.75 | <0.005 | 0.163 | 0.0280 | <0.005 | <0.010 | 0.0299 | 0.0258 | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | <0.001 | 0.0017 | 252 | <0.005 | 0.76 | <0.005 | 0.168 | 0.0232 | <0.005 | <0.010 | 0.0325 | 0.0324 | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | <0.001 | 0.0018 | 232 | <0.005 | 1.30 | <0.005 | 0.179 | 0.0253 | <0.005 | <0.010 | 0.0355 | 0.1020 | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 0 | 0.0017 | 205 | 0 | 1.05 | 0 | 0.188 | 0.0253 | 0 | 0 | 0.0354 | 0.0460 | | |
| Maximum | <0.001 | 0.0018 | 252 | <0.005 | 1.40 | <0.005 | 0.241 | 0.0280 | <0.005 | <0.010 | 0.0439 | 0.1020 | | |
| Minimum | <0.001 | 0.0016 | 155 | <0.005 | 0.75 | <0.005 | 0.163 | 0.0232 | <0.005 | <0.010 | 0.0299 | 0.0240 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month October | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 39.1 | 80 | | 120 | 120 | | | | | | | |
| 2 | 305.5 | 39.0 | 90 | | 120 | 120 | | | | | | | |
| 3 | 305.5 | 38.6 | 90 | 8.1 | 120 | 120 | | | | | | | |
| 4 | 305.5 | 39.6 | 60 | | 120 | 120 | | | | | | | |
| 5 | 305.5 | 39.7 | | | 0 | 0 | | | | | | | |
| 6 | 305.5 | 39.9 | | | 120 | 120 | | | | | | | |
| 7 | 305.5 | 40.3 | | | 120 | 120 | | | | | | | |
| 8 | 305.5 | 41.0 | 90 | | 120 | 120 | | | | | | | |
| 9 | 305.5 | 41.7 | 70 | 8.2 | 120 | 120 | | | | | | | |
| 10 | 305.5 | 41.7 | 90 | | 120 | 120 | | | | | | | |
| 11 | 305.5 | 39.9 | <30 | | 60 | 60 | | | | | | | |
| 12 | 305.5 | 38.4 | | | 0 | 0 | | | | | | | |
| 13 | 305.5 | 37.4 | | | 0 | 0 | | | | | | | |
| 14 | 305.5 | 36.5 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 37.4 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 37.3 | | 7.8 | 0 | 0 | | | | | | | |
| 17 | 305.5 | 37.4 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 37.4 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 37.2 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 37.2 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 36.2 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 36.4 | | 7.8 | 0 | 0 | | | | | | | |
| 23 | 305.5 | 37.3 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 37.4 | | | 0 | 0 | | | | | | | |
| 25 | 305.5 | 37.0 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 36.4 | | | 0 | 0 | | | | | | | |
| 27 | 263.4 | 33.0 | | | 0 | 0 | | | | | | | |
| 28 | 248.4 | 32.5 | | | 0 | 0 | | | | | | | |
| 29 | 196.2 | 31.6 | | | 0 | 0 | | | | | | | |
| 30 | 224.5 | 29.8 | | | 0 | 0 | | | | | | | |
| 31 | 184.6 | 33.0 | | | 0 | 0 | | | | | | | |
| Average | 292.3 | 37.3 | 71 | | 37 | 37 | | | | | | | |
| Maximum | 305.5 | 41.7 | 90 | 8.2 | 120 | 120 | | | | | | | |
| Minimum | 184.6 | 29.8 | <30 | 7.8 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | October | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month October | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | 0.350 | 2.4 | <.20 | 0.329 | <0.005 | <0.001 | 0.0011 | 1890 | 0.0159 | <0.005 | 2.4 | <0.005 | 0.0865 | 0.0114 | <0.005 | 0.0192 |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | 0.350 | <2.0 | <0.20 | 0.457 | <0.005 | <0.001 | <0.001 | 1710 | 0.0125 | <0.005 | 1.4 | <0.005 | 0.0840 | 0.0105 | <0.005 | <0.010 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | 0.376 | 7.3 | 1.6 | 0.500 | <0.005 | <0.001 | <0.001 | 2070 | 0.0116 | <0.005 | 2.0 | <0.005 | 0.0479 | 0.0082 | <0.005 | <0.010 |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | 0.363 | 2.9 | 1.6 | 0.542 | <0.005 | <0.001 | <0.001 | 2120 | 0.0118 | <0.005 | 3.2 | <0.005 | 0.0712 | 0.0086 | <0.005 | <0.010 |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0.360 | 3.2 | 0.80 | 0.457 | 0 | 0 | 0.0003 | 1948 | 0.0130 | 0 | 2.2 | 0 | 0.0724 | 0.0097 | 0 | 0.0048 |
| Maximum | 0.376 | 7.3 | 1.60 | 0.542 | <0.005 | <0.001 | 0.0011 | 2120 | 0.0159 | <0.005 | 3.2 | <0.005 | 0.0865 | 0.0114 | <0.005 | 0.0192 |
| Minimum | 0.350 | <2.0 | <0.20 | 0.329 | <0.005 | <0.001 | <0.001 | 1710 | 0.0116 | <0.005 | 1.4 | <0.005 | 0.0479 | 0.0082 | <0.005 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 10/9/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 64.0 | 85.11 |
| Selenite [SE (IV)] | 11.2 | 14.89 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month November | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 2 | 06:00 | 8.00 | Y | 2.33 | 6.9 | | | | | 0.0198 | <0.005 | 0.0878 | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | 06:00 | 9.70 | Y | | | | | | | | | | | |
| 6 | 06:00 | 9.00 | Y | 2.33 | 7.6 | 3.6 | | | | 0.0145 | 0.0092 | 0.0752 | | |
| 7 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 8 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 9 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 13 | 06:00 | 9.20 | Y | | | | | | | | | | | |
| 14 | 06:00 | 9.30 | Y | 2.55 | 7.6 | | <5.0 | | | | | | | |
| 15 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 16 | 06:00 | 9.50 | Y | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 20 | 06:00 | 9.00 | Y | 2.78 | 7.0 | | | | | | | | | |
| 21 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 22 | Holiday | | N | | | | | | | | | | | |
| 23 | Holiday | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 27 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 28 | 06:00 | 9.00 | Y | 2.78 | 7.0 | | | | | | | | | |
| 29 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 30 | 06:00 | 8.00 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 2.55 | | 3.6 | 0 | | | 0.0172 | 0.0046 | 0.0815 | | |
| Maximum | | | | 2.78 | 7.6 | 3.6 | <5.0 | | | 0.0198 | 0.0092 | 0.0878 | | |
| Minimum | | | | 2.33 | 6.9 | 3.6 | <5.0 | | | 0.0145 | <0.005 | 0.0752 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | November | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | | **Phone** | (828) 687-5247 |
| **Certified Laboratories:** | (1) PACE Labs | | | (2) | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | <0.001 | 0.0019 | 275 | <0.005 | 1.20 | <0.005 | 0.289 | 0.0306 | <0.005 | <0.010 | 0.0451 | 0.220 | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | <0.001 | 0.0018 | 216 | 0.0053 | 0.89 | <0.005 | 0.268 | 0.0307 | <0.005 | <0.010 | 0.0401 | 0.290 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | 0.138 | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.152 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | 0.0722 | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | 0 | 0.0018 | 246 | 0.0026 | 1.04 | 0 | 0.278 | 0.0306 | 0 | 0 | 0.0426 | 0.1744 | | |
| **Maximum** | <0.001 | 0.0019 | 275 | 0.0053 | 1.20 | <0.005 | 0.289 | 0.0307 | <0.005 | <0.010 | 0.0451 | 0.290 | | |
| **Minimum** | <0.001 | 0.0018 | 216 | <0.005 | 0.89 | <0.005 | 0.268 | 0.0306 | <0.005 | <0.010 | 0.0401 | 0.0722 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month November | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Regina G. Elledge | Grade P/C I | Phone (828) 687-5247
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 199.8 | 32.2 | | | 0 | 0 | | | | | | | |
| 2 | 240.7 | 30.3 | | 7.8 | 0 | 0 | | | | | | | |
| 3 | 287.5 | 31.3 | | | 0 | 0 | | | | | | | |
| 4 | 318.3 | 31.7 | | | 0 | 0 | | | | | | | |
| 5 | 305.5 | 31.5 | 100 | | 80 | 80 | | | | | | | |
| 6 | 305.5 | 31.4 | 60 | 8.0 | 120 | 120 | | | | | | | |
| 7 | 305.5 | 31.6 | 70 | | 120 | 120 | | | | | | | |
| 8 | 305.5 | 31.5 | 90 | | 120 | 120 | | | | | | | |
| 9 | 305.5 | 31.2 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 30.5 | | | 120 | 120 | | | | | | | |
| 11 | 305.5 | 30.4 | | | 120 | 120 | | | | | | | |
| 12 | 305.5 | 30.5 | 70 | | 120 | 120 | | | | | | | |
| 13 | 305.5 | 30.9 | 70 | | 120 | 120 | | | | | | | |
| 14 | 305.5 | 31.5 | 70 | 8.4 | 120 | 120 | | | | | | | |
| 15 | 305.5 | 31.2 | 40 | | 120 | 120 | | | | | | | |
| 16 | 305.5 | 31.2 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 30.7 | | | 120 | 120 | | | | | | | |
| 18 | 305.5 | 30.3 | | | 120 | 120 | | | | | | | |
| 19 | 305.5 | 30.0 | <30 | | 60 | 40 | | | | | | | |
| 20 | 305.5 | 30.5 | | 8.6 | 0 | 0 | | | | | | | |
| 21 | 305.5 | 30.7 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 30.1 | | | 0 | 0 | | | | | | | |
| 23 | 305.5 | 29.5 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 29.7 | | | 0 | 0 | | | | | | | |
| 25 | 305.5 | 30.0 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 29.4 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 29.6 | | | 0 | 0 | | | | | | | |
| 28 | 304.6 | 30.1 | | 7.7 | 0 | 0 | | | | | | | |
| 29 | 305.5 | 30.2 | | | 0 | 0 | | | | | | | |
| 30 | 305.5 | 30.2 | | | 0 | 0 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 299.6 | 30.7 | 63 | | 49 | 48 | | | | | | | |
| Maximum | 318.3 | 32.2 | 100 | 8.6 | 120 | 120 | | | | | | | |
| Minimum | 199.8 | 29.4 | <30 | 7.7 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | November | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | | **Phone** | | (828) 687-5247 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | November | **Year** 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Regina G. Elledge | **Grade** | P/C I | **Phone** | (828) 687-5247 | |
| **Certified Laboratories:** | (1) PACE Labs | | (2) | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
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**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | 0.417 | 4.4 | 1.2 | 0.476 | <0.005 | <0.001 | <0.001 | 1540 | 0.0173 | <0.005 | 2.6 | <0.005 | 0.0325 | 0.0057 | <0.005 | | <0.010 |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.403 | 5.7 | 2.5 | 0.411 | <0.005 | <0.001 | <0.001 | 1520 | 0.0245 | <0.005 | 1.9 | <0.005 | 0.0443 | 0.0075 | <0.005 | <0.010 | <0.010 |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | 0.363 | | 0.95 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.363 | | 0.83 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | 0.376 | | <0.20 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.384 | 5.0 | 1.10 | 0.444 | 0 | 0 | 0 | 1530 | 0.0209 | 0 | 2.2 | 0 | 0.0384 | 0.0066 | 0 | 0 | 0 |
| **Maximum** | 0.417 | 5.7 | 2.50 | 0.476 | <0.005 | <0.001 | <0.001 | 1540 | 0.0245 | <0.005 | 2.6 | <0.005 | 0.0443 | 0.0075 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.363 | 4.4 | <.20 | 0.411 | <0.005 | <0.001 | <0.001 | 1520 | 0.0173 | <0.005 | 1.9 | <0.005 | 0.0325 | 0.0057 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 11/6/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 64.7 | 92.72 |
| Selenite [SE (IV)] | 5.08 | 7.28 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2007

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed √ | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 4 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 5 | 06:00 | 9.20 | Y | 3.50 | 7.3 | 4.5 | <5.0 | | | | 0.0148 | 0.0430 | | |
| 6 | 06:00 | 9.20 | Y | | | | | | | | | | | |
| 7 | 06:00 | 8.50 | Y | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 11 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 12 | 06:00 | 9.00 | Y | 3.01 | 7.3 | | | | | | | | | |
| 13 | 06:00 | 9.50 | Y | | | | | | | | | | | |
| 14 | 06:00 | 7.50 | Y | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 18 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 19 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 20 | 06:10 | 9.00 | Y | 3.25 | 7.2 | | | | | | | | | |
| 21 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | Holiday | | N | | | | | | | | | | | |
| 25 | Holiday | | N | | | | | | | | | | | |
| 26 | 06:00 | 9.00 | Y | 3.25 | 7.0 | | | | | | | | | |
| 27 | 06:00 | 10.00 | Y | | | | | | | | | | | |
| 28 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 3.25 | | 4.5 | 0 | | | | 0.0148 | 0.0430 | | |
| Maximum | | | | 3.50 | 7.3 | 4.5 | <5.0 | | | | 0.0148 | 0.0430 | | |
| Minimum | | | | 3.01 | 7.0 | 4.5 | <5.0 | | | | 0.0148 | 0.0430 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | December | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | (2) Tritest | | | |
| **Check If ORC has Changed** | √ | **Person (s) Collecting Samples** | | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | 148 | | | | | | | | | 0.0635 | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | 0.110 | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.0972 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | 0.0540 | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 148 | | | | | | | | | 0.0812 | | |
| **Maximum** | | | 148 | | | | | | | | | 0.110 | | |
| **Minimum** | | | 148 | | | | | | | | | 0.0540 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month December | Year 2007
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed √ | Person (s) Collecting Samples Lab Staff

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ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 30.2 | | | 0 | 0 | | | | | | | |
| 2 | 259.4 | 30.6 | | | 0 | 0 | | | | | | | |
| 3 | 240.7 | 32.1 | | | 0 | 0 | | | | | | | |
| 4 | 240.7 | 32.5 | | | 0 | 0 | | | | | | | |
| 5 | 240.7 | 31.3 | | 7.5 | 0 | 0 | | | | | | | |
| 6 | 240.7 | 31.6 | | | 0 | 0 | | | | | | | |
| 7 | 240.7 | 30.8 | | | 0 | 0 | | | | | | | |
| 8 | 240.7 | 30.7 | | | 0 | 0 | | | | | | | |
| 9 | 240.7 | 29.9 | | | 0 | 0 | | | | | | | |
| 10 | 240.7 | 31.3 | | | 0 | 0 | | | | | | | |
| 11 | 240.7 | 32.2 | | | 0 | 0 | | | | | | | |
| 12 | 240.7 | 32.4 | | 7.9 | 0 | 0 | | | | | | | |
| 13 | 240.7 | 31.1 | | | 0 | 0 | | | | | | | |
| 14 | 240.7 | 32.4 | | | 0 | 0 | | | | | | | |
| 15 | 240.7 | 32.4 | | | 0 | 0 | | | | | | | |
| 16 | 240.7 | 32.2 | | | 0 | 0 | | | | | | | |
| 17 | 240.7 | 32.1 | | | 0 | 0 | | | | | | | |
| 18 | 240.7 | 32.1 | | | 0 | 0 | | | | | | | |
| 19 | 244.3 | 31.7 | | | 0 | 0 | | | | | | | |
| 20 | 240.7 | 31.1 | | 7.5 | 0 | 0 | | | | | | | |
| 21 | 240.7 | 31.0 | | | 0 | 0 | | | | | | | |
| 22 | 240.6 | 29.8 | | | 0 | 0 | | | | | | | |
| 23 | 240.7 | 28.8 | | | 0 | 0 | | | | | | | |
| 24 | 240.7 | 28.1 | | | 0 | 0 | | | | | | | |
| 25 | 240.7 | 28.1 | | | 0 | 0 | | | | | | | |
| 26 | 240.7 | 29.6 | | 7.6 | 0 | 0 | | | | | | | |
| 27 | 240.7 | 30.8 | | | 0 | 0 | | | | | | | |
| 28 | 241.2 | 30.7 | | | 0 | 0 | | | | | | | |
| 29 | 240.7 | 28.3 | | | 0 | 0 | | | | | | | |
| 30 | 240.7 | 28.4 | | | 0 | 0 | | | | | | | |
| 31 | 240.7 | 29.2 | | | 0 | 0 | | | | | | | |
| Average | 243.5 | 30.8 | | | 0 | 0 | | | | | | | |
| Maximum | 305.5 | 32.5 | | 7.9 | 0 | 0 | | | | | | | |
| Minimum | 240.6 | 28.1 | | 7.5 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | December | **Year** | 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | √ | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
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## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | December | **Year** 2007 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | (2) Tritest | | | |
| **Check If ORC has Changed** | √ | **Person (s) Collecting Samples** | Lab Staff | | | |

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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
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it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | 0.363 | 4.0 | 0.57 | 0.361 | <0.005 | <0.001 | <0.001 | 1830 | 0.0188 | <0.005 | 1.9 | <0.005 | 0.0341 | 0.0065 | <0.005 | <0.010 | <0.010 |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | 0.363 | | 1.38 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.376 | | 0.69 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | 0.445 | | 0.24 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.387 | 4.0 | 0.72 | 0.361 | 0 | 0 | 0 | 1830 | 0.0188 | 0 | 1.9 | 0 | 0.0341 | 0.0065 | 0 | 0 | 0 |
| **Maximum** | 0.445 | 4.0 | 1.38 | 0.361 | <0.005 | <0.001 | <0.001 | 1830 | 0.0188 | <0.005 | 1.9 | <0.005 | 0.0341 | 0.0065 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.363 | 4.0 | 0.24 | 0.361 | <0.005 | <0.001 | <0.001 | 1830 | 0.0188 | <0.005 | 1.9 | <0.005 | 0.0341 | 0.0065 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 12/5/2007

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 36.8 | 81.42 |
| Selenite [SE (IV)] | 8.4 | 18.58 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month January | Year 2008

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions, Inc.

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 2 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 3 | 06:00 | 9.40 | Y | 4.01 | 6.5 | | | | | | | | | |
| 4 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 06:00 | 9.20 | Y | | | | | | | | | | | |
| 8 | 06:00 | 9.50 | Y | | 6.7 | | | | | | | | >7.6 | |
| 9 | 06:00 | 9.00 | Y | 3.01 | | 8.5 | <5.0 | 5.5 | <0.0001 | 0.0571 | 0.0167 | 0.0580 | | |
| 10 | 06:00 | 9.00 | Y | | | | | | | | | | | |
| 11 | 06:00 | 8.00 | Y | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 15 | 06:00 | 9.30 | Y | 2.78 | 6.2 | | | | | | | | | |
| 16 | 05:45 | 9.70 | Y | | | | | | | | | | | |
| 17 | 06:00 | 7.20 | Y | | | | | | | | | | | |
| 18 | 05:30 | 7.00 | Y | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 22 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 23 | 05:30 | 12.00 | Y | 3.25 | 6.4 | | | | | | | | | |
| 24 | 05:15 | 11.70 | Y | | | | | | | | | | | |
| 25 | 04:45 | 8.30 | Y | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | 05:00 | 9.70 | Y | | | | | | | | | | | |
| 29 | 05:30 | 9.70 | Y | 3.25 | 6.7 | | | | | | | | | |
| 30 | 05:30 | 9.50 | Y | | | | | | | | | | | |
| 31 | 05:30 | 7.50 | Y | | | | | | | | | | | |
| Average | | | | 3.26 | | 8.5 | 0 | 5.5 | 0 | 0.0571 | 0.0167 | 0.0580 | >7.6 | |
| Maximum | | | | 4.01 | 6.7 | 8.5 | <5.0 | 5.5 | <0.0001 | 0.0571 | 0.0167 | 0.0580 | >7.6 | |
| Minimum | | | | 2.78 | 6.2 | 8.5 | <5.0 | 5.5 | <0.0001 | 0.0571 | 0.0167 | 0.0580 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | January | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | 0.0542 | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | 0.0013 | 0.0021 | 188 | <0.005 | 1.00 | <0.005 | 0.193 | 0.0306 | <0.005 | <0.010 | 0.0440 | 0.0628 | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | 0.0794 | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | 0.0460 | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | 0.0293 | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | 0.0013 | 0.0021 | 188 | 0 | 1.00 | 0 | 0.193 | 0.0306 | 0 | 0 | 0.0440 | 0.0543 | | |
| **Maximum** | 0.0013 | 0.0021 | 188 | <0.005 | 1.00 | <0.005 | 0.193 | 0.0306 | <0.005 | <0.010 | 0.0440 | 0.0794 | | |
| **Minimum** | 0.0013 | 0.0021 | 188 | <0.005 | 1.00 | <0.005 | 0.193 | 0.0306 | <0.005 | <0.010 | 0.0440 | 0.0293 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
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Signature of Permittee** **Date**

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Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month January | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
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Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 240.7 | 30.3 | | | 0 | 0 | | | | | | | |
| 2 | 240.7 | 30.6 | | | 0 | 0 | | | | | | | |
| 3 | 240.7 | 30.0 | | 7.0 | 0 | 0 | | | | | | | |
| 4 | 240.7 | 29.4 | | | 0 | 0 | | | | | | | |
| 5 | 240.7 | 28.5 | | | 0 | 0 | | | | | | | |
| 6 | 240.7 | 27.6 | | | 0 | 0 | | | | | | | |
| 7 | 240.7 | 28.0 | | | 0 | 0 | | | | | | | |
| 8 | 240.7 | 28.3 | | 7.4 | 0 | 0 | | | | | | | |
| 9 | 240.7 | 29.3 | | | 0 | 0 | | | | | | | |
| 10 | 240.7 | 28.9 | | | 0 | 0 | | | | | | | |
| 11 | 240.7 | 28.5 | | | 0 | 0 | | | | | | | |
| 12 | 240.7 | 29.1 | | | 0 | 0 | | | | | | | |
| 13 | 240.7 | 29.7 | | | 0 | 0 | | | | | | | |
| 14 | 240.7 | 29.3 | | | 0 | 0 | | | | | | | |
| 15 | 240.7 | 29.6 | | 6.9 | 0 | 0 | | | | | | | |
| 16 | 240.7 | 30.4 | | | 0 | 0 | | | | | | | |
| 17 | 240.7 | 28.6 | | | 0 | 0 | | | | | | | |
| 18 | 240.7 | 29.4 | | | 0 | 0 | | | | | | | |
| 19 | 241.8 | 28.9 | | | 0 | 0 | | | | | | | |
| 20 | 199.7 | 32.0 | | | 0 | 0 | | | | | | | |
| 21 | 183.6 | 33.8 | | | 0 | 0 | | | | | | | |
| 22 | 183.6 | 33.3 | | | 0 | 0 | | | | | | | |
| 23 | 183.6 | 31.5 | | 7.3 | 0 | 0 | | | | | | | |
| 24 | 183.6 | 32.2 | | | 0 | 0 | | | | | | | |
| 25 | 183.6 | 32.4 | | | 0 | 0 | | | | | | | |
| 26 | 183.6 | 32.3 | | | 0 | 0 | | | | | | | |
| 27 | 183.6 | 31.3 | | | 0 | 0 | | | | | | | |
| 28 | 185.0 | 32.2 | | | 0 | 0 | | | | | | | |
| 29 | 184.9 | 31.7 | | 7.5 | 0 | 0 | | | | | | | |
| 30 | 183.6 | 30.8 | | | 0 | 0 | | | | | | | |
| 31 | 183.6 | 33.4 | | | 0 | 0 | | | | | | | |
| Average | 219.3 | 30.4 | | | 0 | 0 | | | | | | | |
| Maximum | 241.8 | 33.8 | | 7.5 | 0 | 0 | | | | | | | |
| Minimum | 183.6 | 27.6 | | 6.9 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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Signature of Permittee** Date

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Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | January | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
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| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

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| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
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## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | January | **Year** 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
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| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | 0.390 | | 0.64 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 0.376 | 9.0 | 0.31 | 0.523 | <0.005 | <0.001 | 0.0011 | 1870 | 0.0208 | <0.005 | 2.5 | <0.005 | 0.0338 | 0.0127 | <0.005 | <0.010 | <0.010 |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | 0.350 | | 0.75 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | 0.350 | | <0.20 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.350 | | <0.20 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.363 | 9.0 | 0.34 | 0.523 | 0 | 0 | 0.0011 | 1870 | 0.0208 | 0 | 2.5 | 0 | 0.0338 | 0.0127 | 0 | 0 | 0 |
| Maximum | 0.390 | 9.0 | 0.75 | 0.523 | <0.005 | <0.001 | 0.0011 | 1870 | 0.0208 | <0.005 | 2.5 | <0.005 | 0.0338 | 0.0127 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.350 | 9.0 | <0.20 | 0.523 | <0.005 | <0.001 | 0.0011 | 1870 | 0.0208 | <0.005 | 2.5 | <0.005 | 0.0338 | 0.0127 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 1/9/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 47.6 | 91.93 |
| Selenite [SE (IV)] | 4.18 | 8.07 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month February | Year 2008

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:30 | 11.50 | Y | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 5 | 05:50 | 8.80 | Y | 3.50 | 6.7 | <3.3 | <5.0 | | | | 0.0198 | 0.0652 | | |
| 6 | 06:00 | 8.60 | Y | | | | | | | | | | | |
| 7 | 05:30 | 8.70 | Y | | | | | | | | | | | |
| 8 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 12 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 13 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 14 | 05:00 | 9.50 | Y | 2.11 | 6.7 | | | | | | | | | |
| 15 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | 05:30 | 10.30 | Y | | | | | | | | | | | |
| 19 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 20 | 05:30 | 12.00 | Y | 3.25 | 7.1 | | | | | | | | | |
| 21 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 22 | 05:30 | 7.50 | Y | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | 05:30 | 9.00 | Y | 3.50 | 7.1 | | | | | | | | | |
| 26 | 05:15 | 12.30 | Y | | | | | | | | | | | |
| 27 | 05:30 | 10.50 | Y | | | | | | | | | | | |
| 28 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 29 | 07:30 | 9.50 | B | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.09 | | 0 | 0 | | | | 0.0198 | 0.0652 | | |
| Maximum | | | | 3.50 | 7.1 | <3.3 | <5.0 | | | | 0.0198 | 0.0652 | | |
| Minimum | | | | 2.11 | 6.7 | <3.3 | <5.0 | | | | 0.0198 | 0.0652 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | February | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | 187 | | | | | | | | | 0.0292 | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | 0.060 | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.0267 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | 0.0272 | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 187 | | | | | | | | | 0.0358 | | |
| **Maximum** | | | 187 | | | | | | | | | 0.0600 | | |
| **Minimum** | | | 187 | | | | | | | | | 0.0267 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month February | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 30.2 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 31.9 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 31.8 | | | 0 | 0 | | | | | | | |
| 4 | 183.6 | 30.6 | | | 0 | 0 | | | | | | | |
| 5 | 184.5 | 30.2 | | 7.9 | 0 | 0 | | | | | | | |
| 6 | 183.6 | 31.6 | | | 0 | 0 | | | | | | | |
| 7 | 183.6 | 33.6 | | | 0 | 0 | | | | | | | |
| 8 | 183.6 | 31.8 | | | 0 | 0 | | | | | | | |
| 9 | 183.6 | 31.3 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 28.2 | | | 0 | 0 | | | | | | | |
| 11 | 183.6 | 33.8 | | | 0 | 0 | | | | | | | |
| 12 | 183.6 | 31.1 | | | 0 | 0 | | | | | | | |
| 13 | 183.6 | 26.7 | | | 0 | 0 | | | | | | | |
| 14 | 121.3 | 33.0 | | 7.4 | 0 | 0 | | | | | | | |
| 15 | 248.4 | 25.0 | | | 0 | 0 | | | | | | | |
| 16 | 207.0 | 29.9 | | | 0 | 0 | | | | | | | |
| 17 | 183.6 | 30.9 | | | 0 | 0 | | | | | | | |
| 18 | 183.6 | 30.8 | | | 0 | 0 | | | | | | | |
| 19 | 183.6 | 31.6 | | | 0 | 0 | | | | | | | |
| 20 | 183.6 | 34.1 | | 7.5 | 0 | 0 | | | | | | | |
| 21 | 183.6 | 33.2 | | | 0 | 0 | | | | | | | |
| 22 | 183.6 | 33.5 | | | 0 | 0 | | | | | | | |
| 23 | 187.9 | 30.7 | | | 0 | 0 | | | | | | | |
| 24 | 183.6 | 32.3 | | | 0 | 0 | | | | | | | |
| 25 | 183.6 | 31.2 | | 7.5 | 0 | 0 | | | | | | | |
| 26 | 183.6 | 31.3 | | | 0 | 0 | | | | | | | |
| 27 | 183.6 | 32.2 | | | 0 | 0 | | | | | | | |
| 28 | 183.6 | 33.0 | | | 0 | 0 | | | | | | | |
| 29 | 183.6 | 33.4 | | | 0 | 0 | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 184.7 | 31.3 | | | 0 | 0 | | | | | | | |
| Maximum | 248.4 | 34.1 | | 7.9 | 0 | 0 | | | | | | | |
| Minimum | 121.3 | 25.0 | | 7.4 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | February | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month February | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
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1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | 0.338 | 9.3 | 0.26 | 0.555 | <0.005 | <0.001 | <0.001 | 1930 | 0.0151 | <0.005 | 1.9 | <0.005 | 0.0717 | 0.0170 | <0.005 | <0.010 | <0.010 |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | 0.338 | | 0.31 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.325 | | 0.42 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | 0.338 | | 0.38 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.335 | 9.3 | 0.34 | 0.555 | 0 | 0 | 0 | 1930 | 0.0151 | 0 | 1.9 | 0 | 0.0717 | 0.0170 | 0 | 0 | 0 |
| Maximum | 0.338 | 9.3 | 0.42 | 0.555 | <0.005 | <0.001 | <0.001 | 1930 | 0.0151 | <0.005 | 1.9 | <0.005 | 0.0717 | 0.0170 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.325 | 9.3 | 0.26 | 0.555 | <0.005 | <0.001 | <0.001 | 1930 | 0.0151 | <0.005 | 1.9 | <0.005 | 0.0717 | 0.0170 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 2/5/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 49.8 | 83.14 |
| Selenite [SE (IV)] | 10.1 | 16.86 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 4 | 05:15 | 9.30 | Y | | | | | | | | | | | |
| 5 | 05:30 | 9.00 | Y | 4.28 | 6.8 | | | | | | | | | |
| 6 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 7 | 05:30 | 7.50 | Y | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 05:15 | 9.50 | Y | | | | | | | | | | | |
| 11 | 05:30 | 10.30 | Y | 3.75 | 6.8 | 5.0 | <5.0 | | | | 0.0276 | 0.0635 | | |
| 12 | 05:30 | 8.00 | Y | | | | | | | | | | | |
| 13 | 06:00 | 7.50 | B | | | | | | | | | | | |
| 14 | 05:30 | 8.70 | Y | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 18 | 05:30 | 9.00 | Y | 3.50 | 6.4 | | | | | | | | | |
| 19 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 20 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 21 | 05:00 | 8.00 | Y | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 25 | 05:15 | 9.30 | Y | | | | | | | | | | | |
| 26 | 05:15 | 9.30 | Y | 3.25 | 6.6 | | | | | | | | | |
| 27 | 05:15 | 9.30 | Y | | | | | | | | | | | |
| 28 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| Average | | | | 3.70 | | 5.0 | 0 | | | | 0.0276 | 0.0635 | | |
| Maximum | | | | 4.28 | 6.8 | 5.0 | <5.0 | | | | 0.0276 | 0.0635 | | |
| Minimum | | | | 3.25 | 6.4 | 5.0 | <5.0 | | | | 0.0276 | 0.0635 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements — XXXX
All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | 0.0323 | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | 135 | | | | | | | | | 0.0386 | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | 0.0316 | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | 0.0307 | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 135 | | | | | | | | | 0.0333 | | |
| Maximum | | | 135 | | | | | | | | | 0.0386 | | |
| Minimum | | | 135 | | | | | | | | | 0.0307 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month March | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 32.5 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 30.3 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 31.8 | | | 0 | 0 | | | | | | | |
| 4 | 183.6 | 31.3 | | | 0 | 0 | | | | | | | |
| 5 | 183.6 | 31.6 | | 7.4 | 0 | 0 | | | | | | | |
| 6 | 183.6 | 32.7 | | | 0 | 0 | | | | | | | |
| 7 | 183.6 | 31.5 | | | 0 | 0 | | | | | | | |
| 8 | 183.6 | 31.7 | | | 0 | 0 | | | | | | | |
| 9 | 176.0 | 33.2 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 34.1 | | | 0 | 0 | | | | | | | |
| 11 | 183.6 | 32.7 | | 7.4 | 0 | 0 | | | | | | | |
| 12 | 183.6 | 32.5 | | | 0 | 0 | | | | | | | |
| 13 | 209.0 | 31.8 | | | 0 | 0 | | | | | | | |
| 14 | 240.7 | 30.6 | | | 0 | 0 | | | | | | | |
| 15 | 240.7 | 31.6 | | | 0 | 0 | | | | | | | |
| 16 | 240.7 | 30.8 | | | 0 | 0 | | | | | | | |
| 17 | 240.7 | 31.7 | | | 0 | 0 | | | | | | | |
| 18 | 240.7 | 31.6 | | 7.3 | 0 | 0 | | | | | | | |
| 19 | 240.7 | 32.3 | | | 0 | 0 | | | | | | | |
| 20 | 240.7 | 30.9 | | | 0 | 0 | | | | | | | |
| 21 | 240.7 | 33.3 | | | 0 | 0 | | | | | | | |
| 22 | 240.7 | 31.1 | | | 0 | 0 | | | | | | | |
| 23 | 240.7 | 29.5 | | | 0 | 0 | | | | | | | |
| 24 | 240.7 | 31.5 | | | 0 | 0 | | | | | | | |
| 25 | 240.7 | 31.4 | | | 0 | 0 | | | | | | | |
| 26 | 240.7 | 31.8 | | 6.9 | 0 | 0 | | | | | | | |
| 27 | 240.7 | 31.8 | | | 0 | 0 | | | | | | | |
| 28 | 240.7 | 32.2 | | | 0 | 0 | | | | | | | |
| 29 | 240.7 | 33.0 | | | 0 | 0 | | | | | | | |
| 30 | 240.7 | 34.0 | | | 0 | 0 | | | | | | | |
| 31 | 240.7 | 34.1 | | | 0 | 0 | | | | | | | |
| Average | 217.3 | 32.0 | | | 0 | 0 | | | | | | | |
| Maximum | 240.7 | 34.1 | | 7.4 | 0 | 0 | | | | | | | |
| Minimum | 176.0 | 29.5 | | 6.9 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | March | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
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| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month March | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

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Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | 0.390 | | 0.46 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | 0.350 | 3.6 | 0.35 | 0.560 | <0.005 | <0.001 | <0.001 | 1620 | 0.0214 | <0.005 | 2.8 | <0.005 | 0.0623 | 0.0138 | <0.005 | <0.010 | 0.0162 |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | 0.338 | | 0.33 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | 0.338 | | 0.30 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.354 | 3.6 | 0.36 | 0.560 | 0 | 0 | 0 | 1620 | 0.0214 | 0 | 2.8 | 0 | 0.0623 | 0.0138 | 0 | 0 | 0.0162 |
| Maximum | 0.390 | 3.6 | 0.46 | 0.560 | <0.005 | <0.001 | <0.001 | 1620 | 0.0214 | <0.005 | 2.8 | <0.005 | 0.0623 | 0.0138 | <0.005 | <0.010 | 0.0162 |
| Minimum | 0.338 | 3.6 | 0.30 | 0.560 | <0.005 | <0.001 | <0.001 | 1620 | 0.0214 | <0.005 | 2.8 | <0.005 | 0.0623 | 0.0138 | <0.005 | <0.010 | 0.0162 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 3/11/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 57.9 | 87.78 |
| Selenite [SE (IV)] | 8.06 | 12.22 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month April | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 2 | 05:30 | 9.00 | Y | 3.50 | 6.6 | | | | | | | | | |
| 3 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 4 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 05:15 | 9.30 | Y | | | | | | | | | | | |
| 8 | 05:30 | 9.00 | Y | | 6.6 | | | | | | | | >7.6 | |
| 9 | 05:30 | 9.50 | Y | 3.25 | | <5.0 | <5.0 | 4.4 | 0.34 | 0.0374 | 0.0313 | 0.0434 | | |
| 10 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 11 | 05:30 | 9.00 | Y | | 6.5 | | | | | | | | | |
| 12 | 06:00 | 7.50 | Y | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 15 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 16 | 05:30 | 9.00 | Y | 3.25 | 6.6 | | | | | | | | | |
| 17 | 05:30 | 5.50 | Y | | | | | | | | | | | |
| 18 | 07:30 | 8.50 | B | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | 07:30 | 9.00 | B | | | | | | | | | | | |
| 22 | 07:30 | 9.00 | B | | | | | | | | | | | |
| 23 | 07:00 | 10.00 | B | 3.50 | 6.9 | | | | | | | | | |
| 24 | 07:30 | 11.00 | B | | | | | | | | | | | |
| 25 | 07:30 | 8.00 | B | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | 05:30 | 9.50 | Y | | | | | | | | | | | |
| 29 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 30 | 05:30 | 9.00 | Y | 2.33 | 7.0 | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.17 | | 0 | 0 | 4.4 | 0.34 | 0.0374 | 0.0313 | 0.0434 | >7.6 | |
| Maximum | | | | 3.50 | 7.0 | <5.0 | <5.0 | 4.4 | 0.34 | 0.0374 | 0.0313 | 0.0434 | >7.6 | |
| Minimum | | | | 2.33 | 6.5 | <5.0 | <5.0 | 4.4 | 0.34 | 0.0374 | 0.0313 | 0.0434 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | April | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | 0.0118 | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | 0.001 | 0.0015 | 114 | <0.005 | 0.54 | <0.005 | 0.163 | 0.0281 | <0.005 | <0.010 | 0.0347 | 0.0245 | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | 0.0321 | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | 0.0264 | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | 0.0482 | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | 0.001 | 0.0015 | 114 | 0 | 0.54 | 0 | 0.163 | 0.0281 | 0 | 0 | 0.0347 | 0.0286 | | |
| **Maximum** | 0.001 | 0.0015 | 114 | <0.005 | 0.54 | <0.005 | 0.163 | 0.0281 | <0.005 | <0.010 | 0.0347 | 0.0482 | | |
| **Minimum** | 0.001 | 0.0015 | 114 | <0.005 | 0.54 | <0.005 | 0.163 | 0.0281 | <0.005 | <0.010 | 0.0347 | 0.0118 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month April | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 240.7 | 33.2 | | | 0 | 0 | | | | | | | |
| 2 | 240.7 | 33.8 | | 6.9 | 0 | 0 | | | | | | | |
| 3 | 245.4 | 32.0 | | | 0 | 0 | | | | | | | |
| 4 | 305.5 | 34.5 | | | 0 | 0 | | | | | | | |
| 5 | 251.5 | 33.5 | | | 0 | 0 | | | | | | | |
| 6 | 240.7 | 33.3 | | | 0 | 0 | | | | | | | |
| 7 | 240.7 | 34.6 | | | 0 | 0 | | | | | | | |
| 8 | 240.7 | 35.4 | | 7.2 | 0 | 0 | | | | | | | |
| 9 | 240.7 | 36.7 | | | 0 | 0 | | | | | | | |
| 10 | 240.7 | 35.4 | | | 0 | 0 | | | | | | | |
| 11 | 240.7 | 36.3 | | | 0 | 0 | | | | | | | |
| 12 | 240.7 | 33.6 | | | 0 | 0 | | | | | | | |
| 13 | 244.1 | 33.5 | | | 0 | 0 | | | | | | | |
| 14 | 247.4 | 35.4 | | | 0 | 0 | | | | | | | |
| 15 | 240.7 | 34.5 | | | 0 | 0 | | | | | | | |
| 16 | 240.7 | 35.3 | | 7.7 | 0 | 0 | | | | | | | |
| 17 | 240.7 | 35.6 | | | 0 | 0 | | | | | | | |
| 18 | 240.7 | 35.6 | | | 0 | 0 | | | | | | | |
| 19 | 240.7 | 34.6 | | | 0 | 0 | | | | | | | |
| 20 | 240.7 | 32.3 | | | 0 | 0 | | | | | | | |
| 21 | 240.7 | 35.2 | | | 0 | 0 | | | | | | | |
| 22 | 240.7 | 36.1 | | | 0 | 0 | | | | | | | |
| 23 | 240.7 | 36.4 | | 7.4 | 0 | 0 | | | | | | | |
| 24 | 240.7 | 34.8 | | | 0 | 0 | | | | | | | |
| 25 | 300.5 | 34.8 | | | 0 | 0 | | | | | | | |
| 26 | 240.7 | 32.6 | | | 0 | 0 | | | | | | | |
| 27 | 215.5 | 33.2 | | | 0 | 0 | | | | | | | |
| 28 | 150.0 | 37.4 | | | 0 | 0 | | | | | | | |
| 29 | 150.0 | 36.6 | | | 0 | 0 | | | | | | | |
| 30 | 150.0 | 34.9 | | 7.6 | 0 | 0 | | | | | | | |
| 31 | | | | | 0 | 0 | | | | | | | |
| Average | 235.8 | 34.7 | | | 0 | 0 | | | | | | | |
| Maximum | 305.5 | 37.4 | | 7.7 | 0 | 0 | | | | | | | |
| Minimum | 150.0 | 32.0 | | 6.9 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | April | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
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| 24 | | | | | | | | | | | | | | |
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| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** April **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | 0.312 | | <0.20 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 0.338 | 2.2 | <0.20 | 0.575 | <0.005 | <0.001 | 0.0015 | 1540 | 0.0219 | <0.005 | 1.6 | <0.005 | 0.0665 | 0.0125 | <0.005 | <0.010 | 0.0119 |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | 0.338 | | 0.23 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | 0.363 | | 0.36 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | 0.338 | | 0.55 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | **0.338** | **2.2** | **0.23** | **0.575** | **0** | **0** | **0.0015** | **1540** | **0.0219** | **0** | **1.6** | **0** | **0.0665** | **0.0125** | **0** | **0** | **0.0119** |
| **Maximum** | **0.363** | **2.2** | **0.55** | **0.575** | **<0.005** | **<0.001** | **0.0015** | **1540** | **0.0219** | **<0.005** | **1.6** | **<0.005** | **0.0665** | **0.0125** | **<0.005** | **<0.010** | **0.0119** |
| **Minimum** | **0.312** | **2.2** | **<0.20** | **0.575** | **<0.005** | **<0.001** | **0.0015** | **1540** | **0.0219** | **<0.005** | **1.6** | **<0.005** | **0.0665** | **0.0125** | **<0.005** | **<0.010** | **0.0119** |
| **Comp. (C)/Grab (G)** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** | **G** |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 4/9/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 35.8 | 83.41 |
| Selenite [SE (IV)] | 7.12 | 16.59 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2008

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 2 | 05:30 | 7.80 | Y | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 6 | 05:30 | 9.00 | Y | 1.33 | 7.5 | 15.8 | <5.0 | | | | 0.0583 | 0.0755 | | |
| 7 | 05:30 | 9.30 | Y | | | | | | | | | | | |
| 8 | 05:30 | 9.50 | Y | | | | | | | | | | | |
| 9 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 05:15 | 9.30 | Y | | | | | | | | | | | |
| 13 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 14 | 05:30 | 9.00 | Y | 1.33 | 7.8 | | | | | | | | | |
| 15 | 07:00 | 8.00 | Y | | | | | | | | | | | |
| 16 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 05:30 | 9.50 | Y | | | | | | | | | | | |
| 20 | 05:30 | 9.50 | Y | 1.51 | 7.2 | | | | | | | | | |
| 21 | 05:30 | 9.50 | Y | | | | | | | | | | | |
| 22 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 23 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | Holiday | | N | | | | | | | | | | | |
| 27 | 05:15 | 9.30 | Y | | | | | | | | | | | |
| 28 | 05:00 | 9.50 | Y | 3.50 | 7.4 | | | | | | | | | |
| 29 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 30 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 31 | | | N | | | | | | | | | | | |
| Average | | | | 1.92 | | 15.8 | 0 | | | | 0.0583 | 0.0755 | | |
| Maximum | | | | 3.50 | 7.8 | 15.8 | <5.0 | | | | 0.0583 | 0.0755 | | |
| Minimum | | | | 1.33 | 7.2 | 15.8 | <5.0 | | | | 0.0583 | 0.0755 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | 179 | | | | | | | | | 0.173 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | 0.0946 | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.168 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | 0.0994 | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 179 | | | | | | | | | 0.1338 | | |
| Maximum | | | 179 | | | | | | | | | 0.1730 | | |
| Minimum | | | 179 | | | | | | | | | 0.0946 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

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Permittee (Please print or type)

Signature of Permittee** Date

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Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

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# EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 002 Month May Year 2008
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Mariea H. Keezel Grade P/C I Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant (2)
Check If ORC has Changed Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
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Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 150.0 | 34.6 | | | 0 | 0 | | | | | | | |
| 2 | 150.0 | 34.5 | | | 0 | 0 | | | | | | | |
| 3 | 150.0 | 34.0 | | | 0 | 0 | | | | | | | |
| 4 | 150.0 | 34.0 | | | 0 | 0 | | | | | | | |
| 5 | 150.0 | 34.4 | | | 0 | 0 | | | | | | | |
| 6 | 150.0 | 34.5 | | 8.0 | 0 | 0 | | | | | | | |
| 7 | 150.0 | 34.6 | | | 0 | 0 | | | | | | | |
| 8 | 150.0 | 34.5 | | | 0 | 0 | | | | | | | |
| 9 | 150.0 | 35.4 | | | 0 | 0 | | | | | | | |
| 10 | 150.0 | 35.2 | | | 0 | 0 | | | | | | | |
| 11 | 150.0 | 34.3 | | | 0 | 0 | | | | | | | |
| 12 | 150.0 | 33.3 | | | 0 | 0 | | | | | | | |
| 13 | 150.0 | 34.0 | | | 0 | 0 | | | | | | | |
| 14 | 150.0 | 33.2 | | 7.5 | 0 | 0 | | | | | | | |
| 15 | 150.0 | 33.9 | | | 0 | 0 | | | | | | | |
| 16 | 150.0 | 34.3 | | | 0 | 0 | | | | | | | |
| 17 | 150.0 | 32.4 | | | 0 | 0 | | | | | | | |
| 18 | 150.0 | 33.2 | | | 0 | 0 | | | | | | | |
| 19 | 202.4 | 31.1 | | | 0 | 0 | | | | | | | |
| 20 | 240.7 | 29.7 | | 7.5 | 0 | 0 | | | | | | | |
| 21 | 250.4 | 30.1 | | | 0 | 0 | | | | | | | |
| 22 | 251.8 | 30.1 | | | 0 | 0 | | | | | | | |
| 23 | 294.8 | 31.0 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 31.9 | | | 0 | 0 | | | | | | | |
| 25 | 305.5 | 32.0 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 33.0 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 34.7 | | | 0 | 0 | | | | | | | |
| 28 | 264.7 | 32.1 | | 7.8 | 0 | 0 | | | | | | | |
| 29 | 248.4 | 32.0 | | | 0 | 0 | | | | | | | |
| 30 | 248.4 | 32.3 | | | 0 | 0 | | | | | | | |
| 31 | 296.8 | 32.5 | | | 0 | 0 | | | | | | | |
| Average | 200.7 | 33.1 | | | 0 | 0 | | | | | | | |
| Maximum | 305.5 | 35.4 | | 8.0 | 0 | 0 | | | | | | | |
| Minimum | 150.0 | 29.7 | | 7.5 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

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Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | May | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** May **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.338 | 9.5 | 1.3 | 0.299 | <0.005 | <0.001 | <0.001 | 1160 | 0.0144 | <0.005 | 1.7 | <0.005 | 0.0577 | <0.005 | <0.005 | <0.010 | <0.010 |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | 0.253 | | 1.1 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.338 | | 1.1 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | 0.376 | | 0.84 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.326 | 9.5 | 1.09 | 0.299 | 0 | 0 | 0 | 1160 | 0.0144 | 0 | 1.7 | 0 | 0.0577 | 0 | 0 | 0 | 0 |
| Maximum | 0.376 | 9.5 | 1.30 | 0.299 | <0.005 | <0.001 | <0.001 | 1160 | 0.0144 | <0.005 | 1.7 | <0.005 | 0.0577 | <0.005 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.253 | 9.5 | 0.84 | 0.299 | <0.005 | <0.001 | <0.001 | 1160 | 0.0144 | <0.005 | 1.7 | <0.005 | 0.0577 | <0.005 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 5/6/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 68.1 | 82.05 |
| Selenite [SE (IV)] | 14.9 | 17.95 |

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | June | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | | **County** | Buncombe | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | (2) Asheville Steam Electric Plant | | | | |
| | (3) Applied Speciation and Consulting | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples:** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 3 | 05:30 | 14.50 | Y | | | | | | | | | | | |
| 4 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 5 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 6 | 05:30 | 4.50 | Y | 3.01 | 6.5 | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | 06:30 | 8.00 | Y | | | | | | | | | | | |
| 10 | 05:30 | 9.50 | Y | 3.25 | 7.4 | 3.7 | <5.0 | | | | 0.0479 | 0.0654 | | |
| 11 | 05:30 | 9.50 | Y | | | | | | | | | | | |
| 12 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 13 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | 05:30 | 8.70 | Y | | | | | | | | | | | |
| 17 | 05:30 | 8.00 | Y | | | | | | | | | | | |
| 18 | 05:30 | 9.10 | Y | 2.78 | 6.7 | | | | | | | | | |
| 19 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 20 | 05:30 | 7.50 | Y | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 24 | 05:30 | 9.70 | Y | | | | | | | | | | | |
| 25 | 05:15 | 9.50 | Y | 2.78 | 6.6 | | | | | | | | | |
| 26 | 05:15 | 9.30 | Y | | | | | | | | | | | |
| 27 | 05:15 | 8.00 | Y | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | 2.96 | | 3.7 | 0 | | | | 0.0479 | 0.0654 | | |
| **Maximum** | | | | 3.25 | 7.4 | 3.7 | <5.0 | | | | 0.0479 | 0.0654 | | |
| **Minimum** | | | | 2.78 | 6.5 | 3.7 | <5.0 | | | | 0.0479 | 0.0654 | | |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G | |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| Permittee (Please print or type) | Signature of Permittee** | Date |
|---|---|---|
| **Garry A. Whisnant** | | |
| **200 CP&L Drive Arden, N.C. 28704** | **(828)684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | June | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
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**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | 0.0918 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | 71.5 | | | | | | | | | 0.0854 | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | 0.0382 | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | 0.0233 | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 71.5 | | | | | | | | | 0.0597 | | |
| Maximum | | | 71.5 | | | | | | | | | 0.0918 | | |
| Minimum | | | 71.5 | | | | | | | | | 0.0233 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month June | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 35.0 | | | 0 | 0 | | | | | | | |
| 2 | 305.5 | 36.3 | | | 0 | 0 | | | | | | | |
| 3 | 305.5 | 37.0 | 30 | | 35 | 0 | | | | | | | |
| 4 | 305.5 | 37.8 | 30 | | 120 | 120 | | | | | | | |
| 5 | 305.5 | 39.0 | 30 | | 120 | 120 | | | | | | | |
| 6 | 305.5 | 39.6 | | 7.4 | 0 | 0 | | | | | | | |
| 7 | 305.5 | 40.8 | | | 120 | 120 | | | | | | | |
| 8 | 305.5 | 41.2 | | | 120 | 120 | | | | | | | |
| 9 | 305.5 | 42.4 | <30 | | 120 | 120 | | | | | | | |
| 10 | 305.5 | 41.7 | 40 | 7.3 | 120 | 120 | | | | | | | |
| 11 | 305.5 | 42.7 | 40 | | 120 | 120 | | | | | | | |
| 12 | 305.5 | 42.7 | 60 | | 120 | 120 | | | | | | | |
| 13 | 305.5 | 42.7 | | | 0 | 0 | | | | | | | |
| 14 | 305.5 | 41.4 | | | 120 | 120 | | | | | | | |
| 15 | 305.5 | 41.8 | | | 120 | 120 | | | | | | | |
| 16 | 305.5 | 42.1 | 30 | | 120 | 120 | | | | | | | |
| 17 | 305.5 | 42.2 | 40 | | 80 | 80 | | | | | | | |
| 18 | 305.5 | 41.1 | | 7.1 | 0 | 0 | | | | | | | |
| 19 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 20 | 197.2 | 40.0 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 39.4 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 41.5 | | | 0 | 0 | | | | | | | |
| 23 | 305.5 | 40.4 | 30 | | 60 | 80 | | | | | | | |
| 24 | 305.5 | 40.9 | 40 | | 120 | 120 | | | | | | | |
| 25 | 305.5 | 41.4 | 50 | 7.0 | 120 | 120 | | | | | | | |
| 26 | 302.1 | 42.0 | 60 | | 120 | 120 | | | | | | | |
| 27 | 305.5 | 40.5 | | | 0 | 0 | | | | | | | |
| 28 | 305.5 | 41.5 | | | 120 | 120 | | | | | | | |
| 29 | 305.5 | 41.4 | | | 120 | 120 | | | | | | | |
| 30 | 305.5 | 41.5 | 70 | | 120 | 120 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 301.8 | 40.6 | 39.3 | | 74 | 73 | | | | | | | |
| Maximum | 305.5 | 42.7 | 70 | 7.4 | 120 | 120 | | | | | | | |
| Minimum | 197.2 | 35.0 | <30 | 7.0 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

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Permittee Address

**(828)684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | June | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
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(x)
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Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
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| 15 | | | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | | | |
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| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
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| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | June | **Year** 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.325 | | 1.3 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 0.312 | 9.3 | 0.87 | 0.456 | <0.005 | <0.001 | <0.001 | 1330 | 0.0114 | <0.005 | 1.9 | <0.005 | 0.1990 | 0.0127 | <0.005 | <0.010 | 0.0125 |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | 0.312 | | 0.44 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | 0.325 | | 0.34 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.319 | 9.3 | 0.74 | 0.456 | 0 | 0 | 0 | 1330 | 0.0144 | 0 | 1.9 | 0 | 0.1990 | 0.0127 | 0 | 0 | 0.0125 |
| **Maximum** | 0.325 | 9.3 | 1.30 | 0.456 | <0.005 | <0.001 | <0.001 | 1330 | 0.0114 | <0.005 | 1.9 | <0.005 | 0.1990 | 0.0127 | <0.005 | <0.010 | 0.0125 |
| **Minimum** | 0.312 | 9.3 | 0.34 | 0.456 | <0.005 | <0.001 | <0.001 | 1330 | 0.0114 | <0.005 | 1.9 | <0.005 | 0.1990 | 0.0127 | <0.005 | <0.010 | 0.0125 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** June **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | <0.005 | 0.0616 | <0.005 | 0.225 | <0.005 | <0.005 | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | <0.005 | 0.0747 | <0.005 | 0.280 | <0.005 | <0.005 | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | <0.005 | 0.103 | <0.005 | 0.399 | <0.005 | <0.005 | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | <0.005 | 0.0922 | <0.005 | 0.143 | <0.005 | <0.005 | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0829 | 0 | 0.262 | 0 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.1030 | <0.005 | 0.399 | <0.005 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0616 | <0.005 | 0.143 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 6/10/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 33.0 | 60.22 |
| Selenite [SE (IV)] | 21.8 | 39.78 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month July | Year 2008

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions, Inc.

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 2 | 05:00 | 9.50 | Y | 3.01 | 6.6 | | | | | | | | | |
| 3 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 4 | Holiday | | N | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 8 | 05:00 | 9.50 | Y | | 7.1 | | | | | | | | >7.6 | |
| 9 | 05:00 | 9.50 | Y | 2.78 | | <2.0 | <5.0 | 6.7 | 0.11 | 0.0165 | 0.0401 | 0.0913 | | |
| 10 | 09:00 | 8.00 | Y | | | | | | | | | | | |
| 11 | 06:30 | 8.00 | Y | | 7.2 | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 15 | 05:15 | 12.30 | Y | | | | | | | | | | | |
| 16 | 05:15 | 11.30 | Y | 2.55 | 6.8 | | | | | | | | | |
| 17 | 05:15 | 11.30 | Y | | | | | | | | | | | |
| 18 | 05:30 | 8.00 | Y | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 22 | 05:00 | 9.70 | Y | 3.50 | 6.8 | | | | | | | | | |
| 23 | 06:15 | 8.30 | Y | | | | | | | | | | | |
| 24 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 25 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 26 | 05:30 | 10.50 | Y | | | | | | | | | | | |
| 27 | 06:30 | 3.50 | Y | | | | | | | | | | | |
| 28 | 05:30 | 10.50 | Y | | | | | | | | | | | |
| 29 | 05:30 | 9.00 | Y | 3.50 | 6.9 | | | | | | | | | |
| 30 | 06:00 | 9.50 | B | | | | | | | | | | | |
| 31 | 06:00 | 9.00 | B | | | | | | | | | | | |
| Average | | | | 3.07 | | 0.0 | 0 | 6.7 | 0.11 | 0.0165 | 0.0401 | 0.0913 | >7.6 | |
| Maximum | | | | 3.50 | 7.2 | <2.0 | <5.0 | 6.7 | 0.11 | 0.0165 | 0.0401 | 0.0913 | >7.6 | |
| Minimum | | | | 2.55 | 6.6 | <2.0 | <5.0 | 6.7 | 0.11 | 0.0165 | 0.0401 | 0.0913 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828)684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | July | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | 0.0187 | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | <0.001 | 0.001 | 174 | <0.005 | 0.77 | <0.005 | 0.166 | 0.0207 | <0.005 | <0.010 | 0.0278 | 0.0520 | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | 0.0883 | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | 0.0643 | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | 0.0475 | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | 0 | 0.001 | 174 | 0 | 0.77 | 0 | 0.166 | 0.0207 | 0 | 0 | 0.0278 | 0.0542 | | |
| **Maximum** | <0.001 | 0.001 | 174 | <0.005 | 0.77 | <0.005 | 0.166 | 0.0207 | <0.005 | <0.010 | 0.0278 | 0.0883 | | |
| **Minimum** | <0.001 | 0.001 | 174 | <0.005 | 0.77 | <0.005 | 0.166 | 0.0207 | <0.005 | <0.010 | 0.0278 | 0.0187 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 002 Month July Year 2008
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Mariea H. Keezel Grade P/C I Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant (2)
Check If ORC has Changed Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 40.6 | 50 | | 120 | 120 | | | | | | | |
| 2 | 305.5 | 40.1 | 50 | 7.2 | 120 | 120 | | | | | | | |
| 3 | 293.9 | 40.3 | 60 | | 120 | 120 | | | | | | | |
| 4 | 305.5 | 40.3 | | | 0 | 0 | | | | | | | |
| 5 | 305.5 | 40.7 | | | 120 | 120 | | | | | | | |
| 6 | 305.5 | 40.6 | | | 120 | 120 | | | | | | | |
| 7 | 305.5 | 40.9 | 30 | | 80 | 80 | | | | | | | |
| 8 | 305.5 | 38.8 | | 7.1 | 0 | 0 | | | | | | | |
| 9 | 244.0 | 38.8 | | | 0 | 0 | | | | | | | |
| 10 | 240.7 | 38.6 | | | 0 | 0 | | | | | | | |
| 11 | 300.7 | 39.1 | | | 0 | 0 | | | | | | | |
| 12 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 13 | 305.5 | 40.6 | | | 0 | 0 | | | | | | | |
| 14 | 305.5 | 41.3 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 40.7 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 41.2 | | 7.5 | 0 | 0 | | | | | | | |
| 17 | 305.5 | 41.5 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 41.9 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 41.5 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 41.7 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 43.0 | 50 | | 80 | 80 | | | | | | | |
| 22 | 305.5 | 43.0 | 40 | 7.5 | 120 | 120 | | | | | | | |
| 23 | 305.5 | 42.7 | 50 | | 120 | 120 | | | | | | | |
| 24 | 305.5 | 41.3 | 60 | | 120 | 120 | | | | | | | |
| 25 | 305.5 | 41.9 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 41.2 | | | 120 | 120 | | | | | | | |
| 27 | 305.5 | 41.9 | | | 120 | 120 | | | | | | | |
| 28 | 305.5 | 42.4 | 50 | | 120 | 120 | | | | | | | |
| 29 | 305.5 | 42.7 | 60 | 7.7 | 80 | 80 | | | | | | | |
| 30 | 305.5 | 43.3 | | | 0 | 0 | | | | | | | |
| 31 | 305.5 | 43.3 | | | 0 | 0 | | | | | | | |
| Average | 300.9 | 41.2 | 50.0 | | 50 | 50 | | | | | | | |
| Maximum | 305.5 | 43.3 | 60 | 7.7 | 120 | 120 | | | | | | | |
| Minimum | 240.7 | 38.6 | 30 | 7.1 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828)684-4286 December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | July | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | July | **Year** 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
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**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | 0.325 | | <0.20 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 0.325 | 12.7 | 0.30 | 0.563 | <0.005 | <0.001 | <0.001 | 1330 | 0.0110 | <0.005 | 2.1 | <0.005 | 0.0805 | 0.0073 | <0.005 | <0.010 | <0.010 |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | 0.325 | | 0.72 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | 0.312 | | 0.43 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.338 | | 0.54 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.325 | 12.7 | 0.40 | 0.563 | 0 | 0 | 0 | 1330 | 0.0110 | 0 | 2.1 | 0 | 0.0805 | 0.0073 | 0 | 0 | 0 |
| **Maximum** | 0.338 | 12.7 | 0.72 | 0.563 | <0.005 | <0.001 | <0.001 | 1330 | 0.0110 | <0.005 | 2.1 | <0.005 | 0.0805 | 0.0073 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.312 | 12.7 | <0.20 | 0.563 | <0.005 | <0.001 | <0.001 | 1330 | 0.0110 | <0.005 | 2.1 | <0.005 | 0.0805 | 0.0073 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** July **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
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**North Carolina Division of Water Quality**
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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | <0.005 | 0.0756 | <0.005 | 0.164 | <0.005 | <0.005 | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | <0.005 | 0.0581 | <0.005 | 0.101 | <0.005 | <0.005 | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | <0.005 | 0.0651 | <0.005 | 0.131 | <0.005 | <0.005 | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | <0.005 | 0.0684 | 0.0066 | 0.131 | <0.005 | <0.005 | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | <0.005 | 0.0707 | 0.0054 | 0.133 | <0.005 | <0.005 | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0676 | 0.0024 | 0.132 | 0 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.0756 | 0.0066 | 0.164 | <0.005 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0581 | <0.005 | 0.101 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

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Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 7/9/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 77.3 | 79.53 |
| Selenite [SE (IV)] | 19.9 | 20.47 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month August | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting | .
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:00 | 7.00 | Y | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 5 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 6 | 05:00 | 9.50 | Y | 3.25 | 6.8 | 2.6 | <5.0 | | | | 0.0508 | 0.0631 | | |
| 7 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 8 | 05:00 | 9.00 | Y | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 12 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 13 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 14 | 05:30 | 10.30 | Y | 3.25 | 6.8 | | | | | | | | | |
| 15 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | 07:30 | 8.50 | B | | | | | | | | | | | |
| 19 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 20 | 05:30 | 12.00 | Y | 3.75 | 6.9 | | | | | | | | | |
| 21 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 22 | 05:30 | 9.00 | Y | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | 07:30 | 7.50 | B | | | | | | | | | | | |
| 26 | 05:00 | 12.00 | Y | | | | | | | | | | | |
| 27 | 05:00 | 10.50 | Y | 10.61 | 7.1 | | | | | | | | | |
| 28 | 05:00 | 10.70 | Y | | | | | | | | | | | |
| 29 | 07:30 | 9.50 | B | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | N | | | | | | | | | | | |
| Average | | | | 5.22 | | 2.6 | 0 | | | | 0.0508 | 0.0631 | | |
| Maximum | | | | 10.61 | 7.1 | 2.6 | <5.0 | | | | 0.0508 | 0.0631 | | |
| Minimum | | | | 3.25 | 6.8 | 2.6 | <5.0 | | | | 0.0508 | 0.0631 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month August | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | 159 | | | | | | | | | 0.0258 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | 0.0243 | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.0262 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | 0.1480 | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 159 | | | | | | | | | 0.0561 | | |
| Maximum | | | 159 | | | | | | | | | 0.1480 | | |
| Minimum | | | 159 | | | | | | | | | 0.0243 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month August | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 42.4 | | | 0 | 0 | | | | | | | |
| 2 | 305.5 | 42.8 | | | 0 | 0 | | | | | | | |
| 3 | 305.5 | 42.2 | | | 0 | 0 | | | | | | | |
| 4 | 305.5 | 42.9 | | | 0 | 0 | | | | | | | |
| 5 | 305.5 | 43.2 | | | 0 | 0 | | | | | | | |
| 6 | 305.5 | 44.2 | | 7.7 | 0 | 0 | | | | | | | |
| 7 | 305.5 | 43.8 | 50 | | 80 | 80 | | | | | | | |
| 8 | 305.5 | 42.3 | | | 0 | 0 | | | | | | | |
| 9 | 305.5 | 41.8 | | | 120 | 120 | | | | | | | |
| 10 | 305.5 | 40.9 | | | 120 | 120 | | | | | | | |
| 11 | 305.5 | 42.0 | 60 | | 120 | 120 | | | | | | | |
| 12 | 305.5 | 41.4 | 70 | | 80 | 80 | | | | | | | |
| 13 | 305.5 | 41.1 | | | 0 | 0 | | | | | | | |
| 14 | 305.5 | 40.7 | | 7.6 | 0 | 0 | | | | | | | |
| 15 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 40.1 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 41.4 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 41.5 | | 7.8 | 0 | 0 | | | | | | | |
| 21 | 305.5 | 41.7 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 23 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 25 | 305.5 | 40.5 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 39.4 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 39.4 | | 7.8 | 0 | 0 | | | | | | | |
| 28 | 305.5 | 39.9 | 50 | | 80 | 80 | | | | | | | |
| 29 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 30 | 270.9 | 37.3 | | | 120 | 120 | | | | | | | |
| 31 | 248.4 | 37.6 | | | 120 | 120 | | | | | | | |
| Average | 302.6 | 41.0 | 58 | | 27 | 27 | | | | | | | |
| Maximum | 305.5 | 44.2 | 70 | 7.8 | 120 | 120 | | | | | | | |
| Minimum | 248.4 | 37.3 | 50 | 7.6 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | August | Year | 2008 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Mariea H. Keezel | Grade | P/C I | | Phone | (828) 687-5230 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month August | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.338 | 9.2 | <0.20 | 0.484 | <0.005 | <0.001 | <0.001 | 1780 | 0.0150 | <0.005 | 1.9 | <0.005 | 0.0687 | 0.0088 | <0.005 | <0.010 | <0.010 |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | 0.312 | | 0.27 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.363 | | <0.20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | 1.205 | | 0.95 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.554 | 9.2 | 0.30 | 0.484 | 0 | 0 | 0 | 1780 | 0.0150 | 0 | 1.9 | 0 | 0.0687 | 0.0088 | 0 | 0 | 0 |
| Maximum | 1.205 | 9.2 | 0.95 | 0.484 | <0.005 | <0.001 | <0.001 | 1780 | 0.0150 | <0.005 | 1.9 | <0.005 | 0.0687 | 0.0088 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.312 | 9.2 | <0.20 | 0.484 | <0.005 | <0.001 | <0.001 | 1780 | 0.0150 | <0.005 | 1.9 | <0.005 | 0.0687 | 0.0088 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** August **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | <0.005 | 0.0764 | <0.005 | 0.153 | <0.005 | <0.005 | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | <0.005 | 0.0629 | <0.005 | 0.141 | <0.005 | <0.005 | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | <0.005 | 0.0563 | <0.005 | 0.0907 | <0.005 | <0.005 | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | <0.005 | 0.0358 | <0.005 | 0.106 | <0.005 | <0.005 | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0579 | 0 | 0.123 | 0 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.0764 | <0.005 | 0.153 | <0.005 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0358 | <0.005 | 0.091 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 8/6/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 43.6 | 75.04 |
| Selenite [SE (IV)] | 14.5 | 24.96 |

# EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 001 Month September Year 2008
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Mariea H. Keezel Grade P/C I Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting .
Check If ORC has Changed Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:30 | 12.30 | Y | 2.33 | 7.0 | 2.8 | <5.0 | | | | 0.0665 | 0.0842 | | |
| 2 | 05:30 | 9.50 | B | | | | | | | | | | | |
| 3 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 4 | 05:00 | 12.50 | Y | | | | | | | | | | | |
| 5 | 05:00 | 6.00 | Y | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 06:00 | 9.30 | B | | | | | | | | | | | |
| 9 | 06:00 | 9.50 | B | | | | | | | | | | | |
| 10 | 05:30 | 9.50 | B | 3.75 | 7.0 | | | | | | | | | |
| 11 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 12 | 07:30 | 11.50 | B | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 07:30 | 10.00 | B | | | | | | | | | | | |
| 16 | 07:30 | 10.00 | B | | | | | | | | | | | |
| 17 | 07:30 | 10.00 | B | | | | | | | | | | | |
| 18 | 06:00 | 9.00 | B | 3.01 | 7.1 | | | | | | | | | |
| 19 | 06:00 | 8.00 | B | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 06:00 | 11.50 | B | | | | | | | | | | | |
| 23 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 24 | 05:30 | 12.00 | Y | 3.01 | 7.0 | | | | | | | | | |
| 25 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 26 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | 06:00 | 9.30 | B | | | | | | | | | | | |
| 30 | 05:15 | 10.30 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.02 | | 2.8 | 0 | | | | 0.0665 | 0.0842 | | |
| Maximum | | | | 3.75 | 7.1 | 2.8 | <5.0 | | | | 0.0665 | 0.0842 | | |
| Minimum | | | | 2.33 | 7.0 | 2.8 | <5.0 | | | | 0.0665 | 0.0842 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704 (828) 684-4286 December 31, 2010
Permittee Address Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month September | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 158 | | | | | | | | | 0.0924 | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | 0.0494 | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | 0.0858 | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | 0.0559 | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 158 | | | | | | | | | 0.0709 | | |
| Maximum | | | 158 | | | | | | | | | 0.0924 | | |
| Minimum | | | 158 | | | | | | | | | 0.0494 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month September | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 270.9 | 36.3 | 70 | 7.7 | 120 | 120 | | | | | | | |
| 2 | 305.5 | 39.7 | 60 | | 120 | 120 | | | | | | | |
| 3 | 305.5 | 40.6 | 60 | | 120 | 120 | | | | | | | |
| 4 | 305.5 | 39.8 | 60 | | 120 | 120 | | | | | | | |
| 5 | 305.5 | 39.8 | | | 0 | 0 | | | | | | | |
| 6 | 305.5 | 39.9 | | | 120 | 120 | | | | | | | |
| 7 | 305.5 | 39.8 | | | 120 | 120 | | | | | | | |
| 8 | 305.5 | 40.6 | 110 | | 120 | 120 | | | | | | | |
| 9 | 305.5 | 41.0 | 60 | | 120 | 120 | | | | | | | |
| 10 | 305.5 | 41.3 | 50 | 8.5 | 80 | 60 | | | | | | | |
| 11 | 305.5 | 40.7 | | | 0 | 0 | | | | | | | |
| 12 | 305.5 | 40.3 | | | 0 | 0 | | | | | | | |
| 13 | 303.2 | 39.5 | | | 0 | 0 | | | | | | | |
| 14 | 264.0 | 39.3 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 39.8 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 38.4 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 39.3 | | 8.1 | 0 | 0 | | | | | | | |
| 19 | 305.5 | 38.0 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 37.4 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 37.1 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 38.3 | | | 0 | 0 | | | | | | | |
| 23 | 305.5 | 37.3 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 37.0 | | 7.9 | 0 | 0 | | | | | | | |
| 25 | 305.5 | 36.7 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 37.0 | | | 0 | 0 | | | | | | | |
| 27 | 251.2 | 34.2 | | | 0 | 0 | | | | | | | |
| 28 | 240.7 | 34.3 | | | 0 | 0 | | | | | | | |
| 29 | 240.7 | 34.3 | | | 0 | 0 | | | | | | | |
| 30 | 240.8 | 33.6 | | | 0 | 0 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 294.6 | 38.4 | 67 | | 35 | 34 | | | | | | | |
| Maximum | 305.5 | 41.3 | 110 | 8.5 | 120 | 120 | | | | | | | |
| Minimum | 240.7 | 33.6 | 50 | 7.7 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | September | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
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| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** September **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.363 | 4.4 | 0.67 | 0.433 | <0.005 | <0.001 | <0.001 | 1180 | 0.0163 | <0.005 | 1.7 | <0.005 | 0.0624 | <0.005 | <0.005 | <0.010 | 0.0144 |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 0.363 | | 1.0 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | 0.363 | | 2.0 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | 0.338 | | 1.4 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.357 | 4.4 | 1.27 | 0.433 | 0 | 0 | 0 | 1180 | 0.0163 | 0 | 1.7 | 0 | 0.0624 | 0 | 0 | 0 | 0.0144 |
| Maximum | 0.363 | 4.4 | 2.0 | 0.433 | <0.005 | <0.001 | <0.001 | 1180 | 0.0163 | <0.005 | 1.7 | <0.005 | 0.0624 | <0.005 | <0.005 | <0.010 | 0.0144 |
| Minimum | 0.338 | 4.4 | 0.67 | 0.433 | <0.005 | <0.001 | <0.001 | 1180 | 0.0163 | <0.005 | 1.7 | <0.005 | 0.0624 | <0.005 | <0.005 | <0.010 | 0.0144 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** September **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | <0.005 | 0.0615 | <0.005 | 0.0671 | <0.005 | <0.005 | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | <0.005 | 0.0543 | <0.005 | 0.0718 | <0.005 | <0.005 | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | <0.005 | 0.074 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | <0.005 | 0.0683 | <0.005 | 0.0602 | <0.005 | <0.005 | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0645 | 0 | 0.0498 | 0 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.0740 | <0.005 | 0.0718 | <0.005 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0543 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 9/1/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 56.1 | 70.92 |
| Selenite [SE (IV)] | 23.0 | 29.08 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month October | Year 2008

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions, Inc.

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:30 | 10.30 | Y | | | | | | | | | | | |
| 2 | 01:30 | 12.00 | Y | 2.33 | 7.8 | | | | | | | | | |
| 3 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 7 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 8 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 9 | 05:30 | 11.00 | Y | | | | | | | | | | | |
| 10 | 05:30 | 9.00 | Y | 3.25 | 7.5 | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 14 | 04:45 | 10.70 | Y | | 7.2 | | | | | | | | >7.6 | |
| 15 | 04:45 | 10.70 | Y | 3.75 | | 2.6 | <5.0 | 7.1 | <0.10 | 0.0079 | 0.0561 | 0.0612 | | |
| 16 | 04:30 | 11.00 | Y | | | | | | | | | | | |
| 17 | 04:45 | 10.70 | Y | | 7.1 | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 21 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 22 | 05:00 | 12.00 | Y | 3.50 | 7.0 | | | | | | | | | |
| 23 | 06:00 | 12.50 | B | | | | | | | | | | | |
| 24 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 28 | 05:30 | 10.70 | Y | | | | | | | | | | | |
| 29 | 05:30 | 12.00 | Y | 1.91 | 6.6 | | | | | | | | | |
| 30 | 05:30 | 11.50 | Y | | | | | | | | | | | |
| 31 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| Average | | | | 2.95 | | 2.6 | 0 | 7.1 | 0 | 0.0079 | 0.0561 | 0.0612 | >7.6 | |
| Maximum | | | | 3.75 | 7.8 | 2.6 | <5.0 | 7.1 | <0.10 | 0.0079 | 0.0561 | 0.0612 | >7.6 | |
| Minimum | | | | 1.91 | 6.6 | 2.6 | <5.0 | 7.1 | <0.10 | 0.0079 | 0.0561 | 0.0612 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | October | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | 0.0771 | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | 0.0491 | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | <0.001 | <0.001 | 86 | <0.005 | 0.93 | <0.005 | 0.110 | 0.0162 | <0.005 | <0.010 | <0.010 | 0.0314 | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | 0.0312 | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | 0.0571 | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | 0 | 0 | 86 | 0 | 0.93 | 0 | 0.110 | 0.0162 | 0 | 0 | 0 | 0.0492 | | |
| **Maximum** | <0.001 | <0.001 | 86 | <0.005 | 0.93 | <0.005 | 0.110 | 0.0162 | <0.005 | <0.010 | <0.010 | 0.0771 | | |
| **Minimum** | <0.001 | <0.001 | 86 | <0.005 | 0.93 | <0.005 | 0.110 | 0.0162 | <0.005 | <0.010 | <0.010 | 0.0312 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

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**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month October | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 269.6 | 32.6 | 70 | | 60 | 80 | | | | | | | |
| 2 | 305.5 | 34.7 | 80 | 7.6 | 120 | 120 | | | | | | | |
| 3 | 288.5 | 31.9 | | | 0 | 0 | | | | | | | |
| 4 | 170.2 | 33.9 | | | 20 | 120 | | | | | | | |
| 5 | 289.3 | 32.7 | | | 100 | 120 | | | | | | | |
| 6 | 305.5 | 35.0 | 180 | | 120 | 120 | | | | | | | |
| 7 | 305.5 | 34.7 | 150 | | 80 | 80 | | | | | | | |
| 8 | 305.5 | 34.3 | | | 0 | 0 | | | | | | | |
| 9 | 305.5 | 34.7 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 33.9 | | 7.5 | 0 | 0 | | | | | | | |
| 11 | 305.5 | 33.3 | | | 0 | 0 | | | | | | | |
| 12 | 305.5 | 33.2 | | | 0 | 0 | | | | | | | |
| 13 | 305.5 | 34.9 | | | 0 | 0 | | | | | | | |
| 14 | 305.5 | 34.3 | | 7.5 | 0 | 0 | | | | | | | |
| 15 | 305.5 | 35.1 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 35.2 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 34.0 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 33.0 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 32.6 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 33.6 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 34.2 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 33.2 | | 7.5 | 0 | 0 | | | | | | | |
| 23 | 305.5 | 33.9 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 32.7 | | | 0 | 0 | | | | | | | |
| 25 | 287.4 | 29.0 | | | 0 | 0 | | | | | | | |
| 26 | 229.1 | 29.1 | | | 0 | 0 | | | | | | | |
| 27 | 155.5 | 31.9 | | | 0 | 0 | | | | | | | |
| 28 | 155.5 | 30.8 | | | 0 | 0 | | | | | | | |
| 29 | 155.5 | 30.2 | | 7.2 | 0 | 0 | | | | | | | |
| 30 | 155.5 | 29.3 | | | 0 | 0 | | | | | | | |
| 31 | 115.2 | 32.1 | | | 0 | 0 | | | | | | | |
| Average | 270.4 | 33.0 | 120 | | 16 | 21 | | | | | | | |
| Maximum | 305.5 | 35.2 | 180 | 7.6 | 120 | 120 | | | | | | | |
| Minimum | 115.2 | 29.0 | 70 | 7.2 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | October | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
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| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month October | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
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Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | 0.338 | | 0.34 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 0.338 | | 0.64 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | 0.338 | 4.7 | 0.42 | 0.405 | <0.005 | <0.001 | <0.001 | 1080 | 0.0062 | <0.005 | 1.9 | <0.005 | 0.0442 | 0.0069 | <0.005 | <0.010 | <0.010 |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | 0.338 | | <0.20 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.325 | | 0.31 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.335 | 4.7 | 0.34 | 0.405 | 0 | 0 | 0 | 1080 | 0.0062 | 0 | 1.9 | 0 | 0.0442 | 0.0069 | 0 | 0 | 0 |
| Maximum | 0.338 | 4.7 | 0.64 | 0.405 | <0.005 | <0.001 | <0.001 | 1080 | 0.0062 | <0.005 | 1.9 | <0.005 | 0.0442 | 0.0069 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.325 | 4.7 | <0.20 | 0.405 | <0.005 | <0.001 | <0.001 | 1080 | 0.0062 | <0.005 | 1.9 | <0.005 | 0.0442 | 0.0069 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address | **(828) 684-4286** Phone Number | **December 31, 2010** Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** October **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
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**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | <0.005 | 0.0494 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | <0.005 | 0.0417 | <0.005 | 0.0941 | 0.0061 | <0.005 | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | <0.005 | 0.0566 | <0.005 | <0.050 | 0.0054 | <0.005 | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | <0.005 | 0.0679 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | <0.005 | 0.0537 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0539 | 0 | 0.0188 | 0.0023 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.0679 | <0.005 | 0.0941 | 0.0061 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0417 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 10/15/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 27.1 | 51.33 |
| Selenite [SE (IV)] | 25.7 | 48.67 |

# EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 001 **Month** November **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting
**Check If ORC has Changed** **Person (s) Collecting Samples:** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 05:30 | 9.50 | B | | | | | | | | | | | |
| 4 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 5 | 05:30 | 9.40 | Y | | | | | | | | | | | |
| 6 | 05:00 | 10.50 | Y | 1.91 | 7.0 | 16.8 | <5.0 | | | | 0.0207 | 0.0482 | | |
| 7 | 05:30 | 11.00 | Y | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 06:00 | 5.50 | B | | | | | | | | | | | |
| 11 | 05:00 | 10.50 | Y | 1.91 | 7.1 | | | | | | | | | |
| 12 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 13 | 05:30 | 10.00 | Y | | | | | | | | | | | |
| 14 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 15 | 05:30 | 11.50 | Y | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 18 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 19 | 05:00 | 10.00 | Y | 1.91 | 6.8 | | | | | | | | | |
| 20 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 21 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 05:30 | 10.00 | B | | | | | | | | | | | |
| 25 | 06:00 | 9.00 | B | 3.50 | 6.1 | | | | | | | | | |
| 26 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 27 | Holiday | | N | | | | | | | | | | | |
| 28 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | 2.31 | | 16.8 | 0 | | | | 0.0207 | 0.0482 | | |
| **Maximum** | | | | 3.50 | 7.1 | 16.8 | <5.0 | | | | 0.0207 | 0.0482 | | |
| **Minimum** | | | | 1.91 | 6.1 | 16.8 | <5.0 | | | | 0.0207 | 0.0482 | | |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G | |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

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**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive** **Arden, N.C.** **28704** | **(828) 684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

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## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | November | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

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(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | 125 | | | | | | | | | 0.0580 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | 0.0673 | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | 0.0758 | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | 0.0216 | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 125 | | | | | | | | | 0.0557 | | |
| **Maximum** | | | 125 | | | | | | | | | 0.0758 | | |
| **Minimum** | | | 125 | | | | | | | | | 0.0216 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month November | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 90.7 | 31.3 | | | 0 | 0 | | | | | | | |
| 2 | 90.7 | 31.7 | | | 0 | 0 | | | | | | | |
| 3 | 129.6 | 29.5 | | | 0 | 0 | | | | | | | |
| 4 | 155.5 | 27.0 | | | 0 | 0 | | | | | | | |
| 5 | 155.5 | 27.7 | | | 0 | 0 | | | | | | | |
| 6 | 155.5 | 27.7 | | 7.6 | 0 | 0 | | | | | | | |
| 7 | 155.5 | 27.4 | | | 0 | 0 | | | | | | | |
| 8 | 155.5 | 26.7 | | | 0 | 0 | | | | | | | |
| 9 | 155.5 | 26.0 | | | 0 | 0 | | | | | | | |
| 10 | 155.5 | 27.3 | | | 0 | 0 | | | | | | | |
| 11 | 155.5 | 27.5 | | 7.7 | 0 | 0 | | | | | | | |
| 12 | 155.5 | 26.6 | | | 0 | 0 | | | | | | | |
| 13 | 155.5 | 26.2 | | | 0 | 0 | | | | | | | |
| 14 | 155.5 | 25.8 | | | 0 | 0 | | | | | | | |
| 15 | 155.5 | 26.0 | | | 0 | 0 | | | | | | | |
| 16 | 155.5 | 25.8 | | | 0 | 0 | | | | | | | |
| 17 | 155.5 | 26.6 | | | 0 | 0 | | | | | | | |
| 18 | 208.2 | 24.2 | | | 0 | 0 | | | | | | | |
| 19 | 210.0 | 24.2 | | 8.3 | 0 | 0 | | | | | | | |
| 20 | 183.6 | 25.1 | | | 0 | 0 | | | | | | | |
| 21 | 183.6 | 24.1 | | | 0 | 0 | | | | | | | |
| 22 | 183.6 | 23.9 | | | 0 | 0 | | | | | | | |
| 23 | 183.6 | 26.2 | | | 0 | 0 | | | | | | | |
| 24 | 183.6 | 28.8 | | | 0 | 0 | | | | | | | |
| 25 | 183.6 | 29.5 | | 7.6 | 0 | 0 | | | | | | | |
| 26 | 183.6 | 30.2 | | | 0 | 0 | | | | | | | |
| 27 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | |
| 28 | 183.6 | 27.3 | | | 0 | 0 | | | | | | | |
| 29 | 178.3 | 23.8 | | | 0 | 0 | | | | | | | |
| 30 | 92.0 | 27.8 | | | 0 | 0 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 161.0 | 27.0 | | | 0 | 0 | | | | | | | |
| Maximum | 210.0 | 31.7 | | 8.3 | 0 | 0 | | | | | | | |
| Minimum | 90.7 | 23.8 | | 7.6 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | November | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** November **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.325 | 3.4 | 0.36 | 0.260 | <0.005 | <0.001 | <0.001 | 768 | 0.0063 | <0.005 | 1.4 | <0.005 | 0.0281 | 0.0078 | <0.005 | <0.010 | <0.010 |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | 0.325 | | 0.65 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | 0.325 | | 0.51 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | 0.325 | | 0.52 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.325 | 3.4 | 0.51 | 0.260 | 0 | 0 | 0 | 768 | 0.0063 | 0 | 1.4 | 0 | 0.0281 | 0.0078 | 0 | 0 | 0 |
| Maximum | 0.325 | 3.4 | 0.65 | 0.260 | <0.005 | <0.001 | <0.001 | 768 | 0.0063 | <0.005 | 1.4 | <0.005 | 0.0281 | 0.0078 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.325 | 3.4 | 0.36 | 0.260 | <0.005 | <0.001 | <0.001 | 768 | 0.0063 | <0.005 | 1.4 | <0.005 | 0.0281 | 0.0078 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

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## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** November **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | <0.005 | 0.0421 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | <0.005 | 0.0407 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | <0.005 | 0.0387 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | <0.005 | 0.0402 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0404 | 0 | 0 | 0 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.0421 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0387 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

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Permittee Address

**(828) 684-4286**
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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 11/6/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 35.7 | 85.49 |
| Selenite [SE (IV)] | 6.06 | 14.51 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:30 | 11.50 | B | | | | | | | | | | | |
| 2 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 3 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 4 | 05:30 | 12.00 | Y | 2.78 | 6.6 | 2.0 | <5.0 | | | | 0.0247 | 0.0266 | | |
| 5 | 05:00 | 8.00 | Y | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 9 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 10 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 11 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 12 | 05:30 | 12.00 | Y | 3.75 | 7.0 | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 16 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 17 | 05:00 | 10.00 | Y | 3.50 | 7.1 | | | | | | | | | |
| 18 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 19 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 05:30 | 8.00 | B | | | | | | | | | | | |
| 23 | 06:00 | 8.50 | B | 4.01 | 6.4 | | | | | | | | | |
| 24 | Holiday | | N | | | | | | | | | | | |
| 25 | Holiday | | N | | | | | | | | | | | |
| 26 | 06:00 | 6.50 | B | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 30 | 05:00 | 10.50 | Y | 2.78 | 7.2 | | | | | | | | | |
| 31 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| Average | | | | 3.36 | | 2.0 | 0 | | | | 0.0247 | 0.0266 | | |
| Maximum | | | | 4.01 | 7.2 | 2.0 | <5.0 | | | | 0.0247 | 0.0266 | | |
| Minimum | | | | 2.78 | 6.4 | 2.0 | <5.0 | | | | 0.0247 | 0.0266 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements — XXXX
All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | 79.7 | | | | | | | | | 0.0246 | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | 0.0189 | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | 0.0171 | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | 0.0246 | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | 0.0289 | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 79.7 | | | | | | | | | 0.0228 | | |
| Maximum | | | 79.7 | | | | | | | | | 0.0289 | | |
| Minimum | | | 79.7 | | | | | | | | | 0.0171 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month December | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 205.7 | 25.9 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 31.0 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 25.1 | | | 0 | 0 | | | | | | | |
| 4 | 183.6 | 23.9 | | 7.7 | 0 | 0 | | | | | | | |
| 5 | 172.4 | 24.5 | | | 0 | 0 | | | | | | | |
| 6 | 125.8 | 28.2 | | | 0 | 0 | | | | | | | |
| 7 | 218.0 | 22.5 | | | 0 | 0 | | | | | | | |
| 8 | 187.6 | 30.7 | | | 0 | 0 | | | | | | | |
| 9 | 183.6 | 29.5 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 25.8 | | | 0 | 0 | | | | | | | |
| 11 | 193.5 | 27.3 | | | 0 | 0 | | | | | | | |
| 12 | 183.6 | 27.3 | | 7.3 | 0 | 0 | | | | | | | |
| 13 | 183.6 | 28.1 | | | 0 | 0 | | | | | | | |
| 14 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 27.0 | | | 0 | 0 | | | | | | | |
| 16 | 196.7 | 27.7 | | | 0 | 0 | | | | | | | |
| 17 | 183.6 | 29.4 | | 7.4 | 0 | 0 | | | | | | | |
| 18 | 183.6 | 29.4 | | | 0 | 0 | | | | | | | |
| 19 | 183.6 | 28.7 | | | 0 | 0 | | | | | | | |
| 20 | 183.6 | 30.8 | | | 0 | 0 | | | | | | | |
| 21 | 183.6 | 30.4 | | | 0 | 0 | | | | | | | |
| 22 | 188.7 | 32.4 | | | 0 | 0 | | | | | | | |
| 23 | 240.7 | 28.0 | | 8.6 | 0 | 0 | | | | | | | |
| 24 | 245.4 | 25.9 | | | 0 | 0 | | | | | | | |
| 25 | 240.7 | 22.5 | | | 0 | 0 | | | | | | | |
| 26 | 210.6 | 26.7 | | | 0 | 0 | | | | | | | |
| 27 | 218.4 | 27.4 | | | 0 | 0 | | | | | | | |
| 28 | 198.4 | 25.7 | | | 0 | 0 | | | | | | | |
| 29 | 186.0 | 27.6 | | | 0 | 0 | | | | | | | |
| 30 | 183.6 | 30.1 | | 8.2 | 0 | 0 | | | | | | | |
| 31 | 183.6 | 29.9 | | | | | | | | | | | |
| Average | 192.5 | 27.7 | | | 0 | 0 | | | | | | | |
| Maximum | 245.4 | 32.4 | | 8.6 | 0 | 0 | | | | | | | |
| Minimum | 125.8 | 22.5 | | 7.3 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | December | Year | 2008 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Mariea H. Keezel | Grade | P/C I | | Phone | (828) 687-5230 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| Garry A. Whisnant | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| 200 CP&L Drive | Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010 |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** December **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | 0.338 | 6.0 | 0.32 | 0.240 | <0.005 | <0.001 | <0.001 | 935 | 0.0089 | <0.005 | 1.6 | <0.005 | 0.1120 | 0.0084 | <0.005 | <0.010 | <0.010 |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | 0.350 | | <0.20 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | 0.403 | | <0.20 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | 0.417 | | <0.20 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | 0.417 | | 0.22 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.385 | 6.0 | 0.11 | 0.240 | 0 | 0 | 0 | 935 | 0.0089 | 0 | 1.6 | 0 | 0.1120 | 0.0084 | 0 | 0 | 0 |
| Maximum | 0.417 | 6.0 | 0.32 | 0.240 | <0.005 | <0.001 | <0.001 | 935 | 0.0089 | <0.005 | 1.6 | <0.005 | 0.1120 | 0.0084 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.338 | 6.0 | <0.20 | 0.240 | <0.005 | <0.001 | <0.001 | 935 | 0.0089 | <0.005 | 1.6 | <0.005 | 0.1120 | 0.0084 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** December **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | <0.005 | 0.0499 | 0.0067 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | <0.005 | 0.0393 | 0.0069 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | <0.005 | 0.0619 | <0.005 | 0.2640 | <0.005 | <0.005 | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | <0.005 | 0.0725 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | <0.005 | 0.0838 | <0.005 | 0.0717 | <0.005 | <0.005 | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0615 | 0.0027 | 0.0671 | 0 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.0838 | 0.0069 | 0.2640 | <0.005 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0393 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 12/4/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 17.5 | 70.28 |
| Selenite [SE (IV)] | 7.4 | 29.72 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF BACKUP OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:30 | 11.50 | B | | | | | | | | | | | |
| 2 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 3 | 05:30 | 12.00 | Y | | | | | | | | | | | |
| 4 | 05:30 | 12.00 | Y | 2.78 | 6.6 | 2.0 | <5.0 | | | | 0.0247 | 0.0266 | | |
| 5 | 05:00 | 8.00 | Y | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 9 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 10 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 11 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 12 | 05:30 | 12.00 | Y | 3.75 | 7.0 | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 16 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 17 | 05:00 | 10.00 | Y | 3.50 | 7.1 | | | | | | | | | |
| 18 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 19 | 07:00 | 8.00 | B | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 05:30 | 8.00 | B | | | | | | | | | | | |
| 23 | 06:00 | 8.50 | B | 4.01 | 6.4 | | | | | | | | | |
| 24 | Holiday | | N | | | | | | | | | | | |
| 25 | Holiday | | N | | | | | | | | | | | |
| 26 | 06:00 | 6.50 | B | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 30 | 05:00 | 10.50 | Y | 2.78 | 7.2 | | | | | | | | | |
| 31 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| Average | | | | 3.36 | | 2.0 | 0 | | | | 0.0247 | 0.0266 | | |
| Maximum | | | | 4.01 | 7.2 | 2.0 | <5.0 | | | | 0.0247 | 0.0266 | | |
| Minimum | | | | 2.78 | 6.4 | 2.0 | <5.0 | | | | 0.0247 | 0.0266 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | December | **Year** | 2008 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF BACKUP OPERATOR IN RESPONSIBLE CHARGE** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | 79.7 | | | | | | | | | 0.0246 | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | 0.0189 | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | 0.0171 | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | 0.0246 | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | 0.0289 | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 79.7 | | | | | | | | | 0.0228 | | |
| **Maximum** | | | 79.7 | | | | | | | | | 0.0289 | | |
| **Minimum** | | | 79.7 | | | | | | | | | 0.0171 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month December | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF BACKUP OPERATOR IN RESPONSIBLE CI Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 205.7 | 25.9 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 31.0 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 25.1 | | | 0 | 0 | | | | | | | |
| 4 | 183.6 | 23.9 | | 7.7 | 0 | 0 | | | | | | | |
| 5 | 172.4 | 24.5 | | | 0 | 0 | | | | | | | |
| 6 | 125.8 | 28.2 | | | 0 | 0 | | | | | | | |
| 7 | 218.0 | 22.5 | | | 0 | 0 | | | | | | | |
| 8 | 187.6 | 30.7 | | | 0 | 0 | | | | | | | |
| 9 | 183.6 | 29.5 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 25.8 | | | 0 | 0 | | | | | | | |
| 11 | 193.5 | 27.3 | | | 0 | 0 | | | | | | | |
| 12 | 183.6 | 27.3 | | 7.3 | 0 | 0 | | | | | | | |
| 13 | 183.6 | 28.1 | | | 0 | 0 | | | | | | | |
| 14 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 27.0 | | | 0 | 0 | | | | | | | |
| 16 | 196.7 | 27.7 | | | 0 | 0 | | | | | | | |
| 17 | 183.6 | 29.4 | | 7.4 | 0 | 0 | | | | | | | |
| 18 | 183.6 | 29.4 | | | 0 | 0 | | | | | | | |
| 19 | 183.6 | 28.7 | | | 0 | 0 | | | | | | | |
| 20 | 183.6 | 30.8 | | | 0 | 0 | | | | | | | |
| 21 | 183.6 | 30.4 | | | 0 | 0 | | | | | | | |
| 22 | 188.7 | 32.4 | | | 0 | 0 | | | | | | | |
| 23 | 240.7 | 28.0 | | 8.6 | 0 | 0 | | | | | | | |
| 24 | 245.4 | 25.9 | | | 0 | 0 | | | | | | | |
| 25 | 240.7 | 22.5 | | | 0 | 0 | | | | | | | |
| 26 | 210.6 | 26.7 | | | 0 | 0 | | | | | | | |
| 27 | 218.4 | 27.4 | | | 0 | 0 | | | | | | | |
| 28 | 198.4 | 25.7 | | | 0 | 0 | | | | | | | |
| 29 | 186.0 | 27.6 | | | 0 | 0 | | | | | | | |
| 30 | 183.6 | 30.1 | | 8.2 | 0 | 0 | | | | | | | |
| 31 | 183.6 | 29.9 | | | | | | | | | | | |
| Average | 192.5 | 27.7 | | | 0 | 0 | | | | | | | |
| Maximum | 245.4 | 32.4 | | 8.6 | 0 | 0 | | | | | | | |
| Minimum | 125.8 | 22.5 | | 7.3 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | December | Year | 2008 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Mariea H. Keezel | Grade | P/C I | | Phone | (828) 687-5230 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF BACKUP OPERATOR IN RESPONSIBLE CHARG Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| Garry A. Whisnant | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| 200 CP&L Drive | Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010 |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month December | Year 2008
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF BACKUP OPERATOR IN RESPONSIBLE CHA Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | 0.338 | 6.0 | 0.32 | 0.240 | <0.005 | <0.001 | <0.001 | 935 | 0.0089 | <0.005 | 1.6 | <0.005 | 0.1120 | 0.0084 | <0.005 | <0.010 | <0.010 |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | 0.350 | | <0.20 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | 0.403 | | <0.20 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | 0.417 | | <0.20 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | 0.417 | | 0.22 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.385 | 6.0 | 0.11 | 0.240 | 0 | 0 | 0 | 935 | 0.0089 | 0 | 1.6 | 0 | 0.1120 | 0.0084 | 0 | 0 | 0 |
| Maximum | 0.417 | 6.0 | 0.32 | 0.240 | <0.005 | <0.001 | <0.001 | 935 | 0.0089 | <0.005 | 1.6 | <0.005 | 0.1120 | 0.0084 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.338 | 6.0 | <0.20 | 0.240 | <0.005 | <0.001 | <0.001 | 935 | 0.0089 | <0.005 | 1.6 | <0.005 | 0.1120 | 0.0084 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** December **Year** 2008
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF BACKUP OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | <0.005 | 0.0499 | 0.0067 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | <0.005 | 0.0393 | 0.0069 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | <0.005 | 0.0619 | <0.005 | 0.2640 | <0.005 | <0.005 | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | <0.005 | 0.0725 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | <0.005 | 0.0838 | <0.005 | 0.0717 | <0.005 | <0.005 | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0615 | 0.0027 | 0.0671 | 0 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.0838 | 0.0069 | 0.2640 | <0.005 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0393 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 12/4/2008

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 17.5 | 70.28 |
| Selenite [SE (IV)] | 7.4 | 29.72 |

## EFFLUENT

NPDES Permit No. NC0000396 Discharge No. 001 Month January Year 2009
Facility Name Asheville Steam Electric Plant Class P/C I County Buncombe
Operator In Responsible Charge Mariea H. Keezel Grade P/C I Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting (4) Environmental Testing Solutions, Inc.
Check If ORC has Changed Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 04:30 | 11.00 | Y | | | | | | | | | | | |
| 2 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 6 | 05:30 | 12.00 | Y | 4.28 | 7.1 | 3.6 | <5.0 | 5.9 | <0.10 | <0.005 | 0.0640 | 0.0648 | >7.6 | |
| 7 | 05:15 | 9.70 | Y | | | | | | | | | | | |
| 8 | 05:30 | 11.50 | Y | | | | | | | | | | | |
| 9 | 05:00 | 10.00 | Y | | 7.2 | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 13 | 05:00 | 10.50 | Y | 3.50 | 7.2 | | | | | | | | | |
| 14 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 15 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 16 | 05:30 | 11.50 | Y | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 20 | 05:30 | 7.00 | Y | | | | | | | | | | | |
| 21 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 22 | 05:00 | 10.50 | Y | 4.01 | 7.5 | | | | | | | | | |
| 23 | 06:00 | 8.00 | B | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | 06:00 | 10.00 | B | | | | | | | | | | | |
| 27 | 06:00 | 9.50 | B | | | | | | | | | | | |
| 28 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 29 | 05:00 | 10.50 | Y | 4.01 | 7.2 | | | | | | | | | |
| 30 | 04:45 | 10.00 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.95 | | 3.6 | 0 | 5.9 | 0 | 0 | 0.0640 | 0.0648 | >7.6 | |
| Maximum | | | | 4.28 | 7.5 | 3.6 | <5.0 | 5.9 | <0.10 | <0.005 | 0.0640 | 0.0648 | >7.6 | |
| Minimum | | | | 3.50 | 7.1 | 3.6 | <5.0 | 5.9 | <0.10 | <0.005 | 0.0640 | 0.0648 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements XXXX
All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704 (828) 684-4286 December 31, 2010
Permittee Address Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month January | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | <0.001 | <0.001 | 148 | 0.0051 | 1.4 | <0.005 | 0.0824 | 0.0135 | <0.005 | <0.010 | <0.010 | 0.0215 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | 0.0149 | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | 0.0174 | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | 0.0114 | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 0 | 0 | 148 | 0.0051 | 1.4 | 0 | 0.0824 | 0.0135 | 0 | 0 | 0 | 0.0163 | | |
| Maximum | <0.001 | <0.001 | 148 | 0.0051 | 1.4 | <0.005 | 0.0824 | 0.0135 | <0.005 | <0.010 | <0.010 | 0.0215 | | |
| Minimum | <0.001 | <0.001 | 148 | 0.0051 | 1.4 | <0.005 | 0.0824 | 0.0135 | <0.005 | <0.010 | <0.010 | 0.0114 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month January | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 32.4 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 32.1 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 29.9 | | | 0 | 0 | | | | | | | |
| 4 | 183.6 | 27.7 | | | 0 | 0 | | | | | | | |
| 5 | 183.6 | 29.5 | | | 0 | 0 | | | | | | | |
| 6 | 183.6 | 29.9 | | 7.9 | 0 | 0 | | | | | | | |
| 7 | 183.6 | 30.1 | | | 0 | 0 | | | | | | | |
| 8 | 183.6 | 31.7 | | | 0 | 0 | | | | | | | |
| 9 | 183.6 | 30.9 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 28.8 | | | 0 | 0 | | | | | | | |
| 11 | 183.6 | 28.5 | | | 0 | 0 | | | | | | | |
| 12 | 183.6 | 31.1 | | | 0 | 0 | | | | | | | |
| 13 | 183.6 | 31.3 | | 7.0 | 0 | 0 | | | | | | | |
| 14 | 183.6 | 32.2 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 31.6 | | | 0 | 0 | | | | | | | |
| 16 | 183.6 | 31.9 | | | 0 | 0 | | | | | | | |
| 17 | 183.6 | 32.1 | | | 0 | 0 | | | | | | | |
| 18 | 183.6 | 31.6 | | | 0 | 0 | | | | | | | |
| 19 | 183.6 | 30.7 | | | 0 | 0 | | | | | | | |
| 20 | 183.6 | 30.6 | | | 0 | 0 | | | | | | | |
| 21 | 183.7 | 30.5 | | | 0 | 0 | | | | | | | |
| 22 | 183.6 | 30.9 | | 6.8 | 0 | 0 | | | | | | | |
| 23 | 185.6 | 29.7 | | | 0 | 0 | | | | | | | |
| 24 | 183.6 | 27.5 | | | 0 | 0 | | | | | | | |
| 25 | 183.6 | 28.5 | | | 0 | 0 | | | | | | | |
| 26 | 183.6 | 31.5 | | | 0 | 0 | | | | | | | |
| 27 | 183.6 | 31.2 | | | 0 | 0 | | | | | | | |
| 28 | 183.6 | 30.6 | | | 0 | 0 | | | | | | | |
| 29 | 183.6 | 30.0 | | 6.9 | 0 | 0 | | | | | | | |
| 30 | 183.6 | 31.2 | | | 0 | 0 | | | | | | | |
| 31 | 183.6 | 31.1 | | | 0 | 0 | | | | | | | |
| Average | 183.7 | 30.6 | | | 0 | 0 | | | | | | | |
| Maximum | 185.6 | 32.4 | | 7.9 | 0 | 0 | | | | | | | |
| Minimum | 183.6 | 27.5 | | 6.8 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | January | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** January **Year** 2009
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
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it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
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| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.473 | 2.6 | <0.20 | 0.511 | 0.0141 | <0.001 | <0.001 | 1750 | 0.0543 | <0.005 | 1.8 | <0.005 | 0.0320 | 0.0147 | <0.005 | <0.010 | <0.010 |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
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| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | 0.390 | | 0.30 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
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| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | 0.390 | | 0.24 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
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| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.376 | | <0.20 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.407 | 2.6 | 0.14 | 0.511 | 0.0141 | 0 | 0 | 1750 | 0.0543 | 0 | 1.8 | 0 | 0.0320 | 0.0147 | 0 | 0 | 0 |
| Maximum | 0.473 | 2.6 | 0.30 | 0.511 | 0.0141 | <0.001 | <0.001 | 1750 | 0.0543 | <0.005 | 1.8 | <0.005 | 0.0320 | 0.0147 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.376 | 2.6 | <0.20 | 0.511 | 0.0141 | <0.001 | <0.001 | 1750 | 0.0543 | <0.005 | 1.8 | <0.005 | 0.0320 | 0.0147 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** January **Year** 2009
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
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| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | <0.005 | 0.0882 | <0.005 | 0.137 | <0.005 | <0.005 | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
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| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | <0.005 | 0.0997 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
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| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | <0.005 | 0.0873 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
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| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | <0.005 | 0.0966 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| Average | 0 | 0.0930 | 0 | 0.034 | 0 | 0 | | | | | | | | | | |
| Maximum | <0.005 | 0.0997 | <0.005 | 0.137 | <0.005 | <0.005 | | | | | | | | | | |
| Minimum | <0.005 | 0.0873 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | G | G | G | | | | | | | | | | |
| Monthly Limit | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 1/6/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 36.7 | 53.42 |
| Selenite [SE (IV)] | 32.0 | 46.58 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month February | Year 2009

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 2 | 07:30 | 8.00 | Y | 3.50 | 7.2 | 2.2 | <5.0 | | | | 0.106 | 0.0691 | | |
| 3 | 11:15 | 6.00 | Y | | | | | | | | | | | |
| 4 | 05:30 | 11.50 | Y | | | | | | | | | | | |
| 5 | 05:00 | 4.70 | Y | | | | | | | | | | | |
| 6 | 06:00 | 8.30 | B | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 10 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 11 | 06:00 | 9.00 | B | 3.01 | 7.2 | | | | | | | | | |
| 12 | 06:00 | 10.00 | B | | | | | | | | | | | |
| 13 | 00:00 | 5.40 | B | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | 05:30 | 10.20 | B | | | | | | | | | | | |
| 17 | 04:45 | 10.50 | Y | | | | | | | | | | | |
| 18 | 04:45 | 10.50 | Y | 3.50 | 7.8 | | | | | | | | | |
| 19 | 04:45 | 10.00 | Y | | | | | | | | | | | |
| 20 | 04:45 | 10.00 | Y | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 24 | 04:45 | 10.30 | Y | | | | | | | | | | | |
| 25 | 05:00 | 10.30 | Y | 3.25 | 7.5 | | | | | | | | | |
| 26 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 27 | 05:00 | 10.50 | Y | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.32 | | 2.2 | 0 | | | | 0.106 | 0.0691 | | |
| Maximum | | | | 3.50 | 7.8 | 2.2 | <5.0 | | | | 0.106 | 0.0691 | | |
| Minimum | | | | 3.01 | 7.2 | 2.2 | <5.0 | | | | 0.106 | 0.0691 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

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Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

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## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | February | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

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| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | 155 | | | | | | | | | 0.0098 | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | 0.0152 | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | 0.0115 | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | 0.0108 | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 155 | | | | | | | | | 0.0118 | | |
| **Maximum** | | | 155 | | | | | | | | | 0.0152 | | |
| **Minimum** | | | 155 | | | | | | | | | 0.0098 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

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| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
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| Permittee Address | Phone Number | Permit Exp. Date |

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month February | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | |
| 2 | 183.7 | 29.7 | | 6.7 | 0 | 0 | | | | | | | |
| 3 | 183.6 | 31.1 | | | 0 | 0 | | | | | | | |
| 4 | 183.6 | 31.6 | | | 0 | 0 | | | | | | | |
| 5 | 183.6 | 31.7 | | | 0 | 0 | | | | | | | |
| 6 | 192.9 | 30.0 | | | 0 | 0 | | | | | | | |
| 7 | 183.6 | 28.9 | | | 0 | 0 | | | | | | | |
| 8 | 183.6 | 25.1 | | | 0 | 0 | | | | | | | |
| 9 | 183.6 | 28.5 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 28.4 | | | 0 | 0 | | | | | | | |
| 11 | 183.7 | 28.7 | | 8.2 | 0 | 0 | | | | | | | |
| 12 | 183.6 | 27.9 | | | 0 | 0 | | | | | | | |
| 13 | 183.6 | 28.0 | | | 0 | 0 | | | | | | | |
| 14 | 183.6 | 25.7 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 25.7 | | | 0 | 0 | | | | | | | |
| 16 | 183.6 | 29.4 | | | 0 | 0 | | | | | | | |
| 17 | 183.6 | 31.8 | | | 0 | 0 | | | | | | | |
| 18 | 183.6 | 28.1 | | 6.9 | 0 | 0 | | | | | | | |
| 19 | 183.6 | 29.4 | | | 0 | 0 | | | | | | | |
| 20 | 183.6 | 30.5 | | | 0 | 0 | | | | | | | |
| 21 | 183.6 | 29.7 | | | 0 | 0 | | | | | | | |
| 22 | 183.6 | 27.3 | | | 0 | 0 | | | | | | | |
| 23 | 183.6 | 29.5 | | | 0 | 0 | | | | | | | |
| 24 | 183.6 | 29.9 | | | 0 | 0 | | | | | | | |
| 25 | 184.9 | 28.0 | | 7.0 | 0 | 0 | | | | | | | |
| 26 | 183.6 | 22.6 | | | 0 | 0 | | | | | | | |
| 27 | 187.2 | 22.3 | | | 0 | 0 | | | | | | | |
| 28 | 183.6 | 23.4 | | | 0 | 0 | | | | | | | |
| 29 | | | | | 0 | 0 | | | | | | | |
| 30 | | | | | 0 | 0 | | | | | | | |
| 31 | | | | | 0 | 0 | | | | | | | |
| Average | 184.1 | 28.3 | | | 0 | 0 | | | | | | | |
| Maximum | 192.9 | 31.8 | | 8.2 | 0 | 0 | | | | | | | |
| Minimum | 183.6 | 22.3 | | 6.7 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | February | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** February **Year** 2009
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | 0.376 | 8.3 | 0.56 | 0.508 | 0.0207 | <0.001 | <0.001 | 1730 | 0.010 | <0.005 | 2.4 | <0.005 | 0.0192 | <0.005 | <0.005 | <0.010 | <0.010 |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | 0.363 | | <0.20 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | 0.473 | | <0.20 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | 0.376 | | 0.59 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.397 | 8.3 | 0.29 | 0.508 | 0.0207 | 0 | 0 | 1730 | 0.010 | 0 | 2.4 | 0 | 0.0192 | 0 | 0 | 0 | 0 |
| Maximum | 0.473 | 8.3 | 0.59 | 0.508 | 0.0207 | <0.001 | <0.001 | 1730 | 0.010 | <0.005 | 2.4 | <0.005 | 0.0192 | <0.005 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.363 | 8.3 | <0.20 | 0.508 | 0.0207 | <0.001 | <0.001 | 1730 | 0.010 | <0.005 | 2.4 | <0.005 | 0.0192 | <0.005 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | | **Discharge No.** | 005 | **Month** February **Year** 2009 |
| **Facility Name** | Asheville Steam Electric Plant | | **Class** | P/C I | **County** Buncombe |
| **Operator In Responsible Charge** | Mariea H. Keezel | | **Grade** | P/C I | **Phone** (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | |

**Mail ORIGINAL and ONE COPY to:**
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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01097 Total Antimony mg/L | 01007 Total Barium mg/L | 01037 Total Cobalt mg/L | 01045 Total Iron mg/L | 01062 Total Molybdenum mg/L | 01087 Total Vanadium mg/L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | <0.005 | 0.0808 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | <0.005 | 0.0729 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | <0.005 | 0.0742 | <0.005 | 0.0614 | <0.005 | <0.005 | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
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| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| **Average** | 0 | 0.0760 | 0 | 0.0205 | 0 | 0 | | | | | | | | | | |
| **Maximum** | <0.005 | 0.0808 | <0.005 | 0.0614 | <0.005 | <0.005 | | | | | | | | | | |
| **Minimum** | <0.005 | 0.0729 | <0.005 | <0.050 | <0.005 | <0.005 | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | G | G | G | | | | | | | | | | |
| **Monthly Limit** | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 2/2/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 35.5 | 58.20 |
| Selenite [SE (IV)] | 25.5 | 41.80 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 3 | 05:00 | 10.00 | Y | | | | | | | | | | | |
| 4 | 04:45 | 10.00 | Y | | | | | | | | | | | |
| 5 | 05:00 | 10.70 | Y | 3.50 | 7.3 | <3.3 | <5.0 | | | | 0.0268 | 0.0498 | | |
| 6 | 05:00 | 9.50 | Y | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 10 | 04:45 | 10.70 | Y | 3.01 | 7.2 | | | | | | | | | |
| 11 | 04:45 | 10.30 | Y | | | | | | | | | | | |
| 12 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 13 | 04:45 | 10.00 | Y | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 17 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 18 | 04:45 | 10.70 | Y | 3.01 | 7.0 | | | | | | | | | |
| 19 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 20 | 04:45 | 8.00 | Y | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 24 | 04:45 | 10.70 | Y | 3.01 | 7.4 | | | | | | | | | |
| 25 | 04:45 | 10.00 | Y | | | | | | | | | | | |
| 26 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 27 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | 05:30 | 9.50 | B | | | | | | | | | | | |
| 31 | 04:30 | 11.30 | Y | | | | | | | | | | | |
| Average | | | | 3.13 | | 0 | 0 | | | | 0.0268 | 0.0498 | | |
| Maximum | | | | 3.50 | 7.4 | <3.3 | <5.0 | | | | 0.0268 | 0.0498 | | |
| Minimum | | | | 3.01 | 7.0 | <3.3 | <5.0 | | | | 0.0268 | 0.0498 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements XXXX
All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | March | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | 105 | | | | | | | | | 0.0092 | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | 0.0212 | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | 0.0173 | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | 0.0159 | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 105 | | | | | | | | | 0.0159 | | |
| **Maximum** | | | 105 | | | | | | | | | 0.0212 | | |
| **Minimum** | | | 105 | | | | | | | | | 0.0092 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month March | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 30.9 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 31.4 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 31.6 | | | 0 | 0 | | | | | | | |
| 4 | 183.6 | 30.6 | | | 0 | 0 | | | | | | | |
| 5 | 183.6 | 30.5 | | 6.9 | 0 | 0 | | | | | | | |
| 6 | 183.6 | 28.1 | | | 0 | 0 | | | | | | | |
| 7 | 183.6 | 27.3 | | | 0 | 0 | | | | | | | |
| 8 | 176.0 | 28.7 | | | 0 | 0 | | | | | | | |
| 9 | 183.6 | 29.8 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 27.9 | | 7.8 | 0 | 0 | | | | | | | |
| 11 | 177.6 | 29.0 | | | 0 | 0 | | | | | | | |
| 12 | 220.1 | 32.7 | | | 0 | 0 | | | | | | | |
| 13 | 183.6 | 34.5 | | | 0 | 0 | | | | | | | |
| 14 | 183.6 | 31.9 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 32.5 | | | 0 | 0 | | | | | | | |
| 16 | 183.6 | 32.0 | | | 0 | 0 | | | | | | | |
| 17 | 208.0 | 31.4 | | | 0 | 0 | | | | | | | |
| 18 | 240.7 | 27.8 | | 7.5 | 0 | 0 | | | | | | | |
| 19 | 240.7 | 29.5 | | | 0 | 0 | | | | | | | |
| 20 | 240.7 | 30.3 | | | 0 | 0 | | | | | | | |
| 21 | 240.7 | 29.3 | | | 0 | 0 | | | | | | | |
| 22 | 250.3 | 30.8 | | | 0 | 0 | | | | | | | |
| 23 | 240.7 | 32.1 | | | 0 | 0 | | | | | | | |
| 24 | 240.7 | 32.3 | | 7.5 | 0 | 0 | | | | | | | |
| 25 | 241.3 | 32.4 | | | 0 | 0 | | | | | | | |
| 26 | 215.2 | 33.0 | | | 0 | 0 | | | | | | | |
| 27 | 240.7 | 31.6 | | | 0 | 0 | | | | | | | |
| 28 | 240.7 | 29.2 | | | 0 | 0 | | | | | | | |
| 29 | 240.7 | 31.7 | | | 0 | 0 | | | | | | | |
| 30 | 240.7 | 32.6 | | | 0 | 0 | | | | | | | |
| 31 | 240.7 | 31.7 | | | 0 | 0 | | | | | | | |
| Average | 210.4 | 30.8 | | | 0 | 0 | | | | | | | |
| Maximum | 250.3 | 34.5 | | 7.8 | 0 | 0 | | | | | | | |
| Minimum | 176.0 | 27.3 | | 6.9 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | March | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** March **Year** 2009
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | 0.390 | 4.0 | 0.30 | 0.536 | 0.0152 | <0.001 | <0.001 | 1420 | 0.0108 | <0.005 | 1.5 | <0.005 | 0.0324 | <0.005 | <0.005 | <0.010 | <0.010 |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 0.390 | | 0.93 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | 0.390 | | <0.20 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | 0.376 | | <0.20 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.386 | 4.0 | 0.31 | 0.536 | 0.0152 | 0 | 0 | 1420 | 0.0108 | 0 | 1.5 | 0 | 0.0324 | 0 | 0 | 0 | 0 |
| **Maximum** | 0.390 | 4.0 | 0.93 | 0.536 | 0.0152 | <0.001 | <0.001 | 1420 | 0.0108 | <0.005 | 1.5 | <0.005 | 0.0324 | <0.005 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.376 | 4.0 | <0.20 | 0.536 | 0.0152 | <0.001 | <0.001 | 1420 | 0.0108 | <0.005 | 1.5 | <0.005 | 0.0324 | <0.005 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 3/5/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 31.0 | 70.78 |
| Selenite [SE (IV)] | 12.8 | 29.22 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month April | Year 2009

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions, Inc.

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 04:30 | 11.00 | Y | | | | | | | | | | | |
| 2 | 04:45 | 10.70 | Y | 3.50 | 8.1 | | | | | | | | | |
| 3 | 04:45 | 11.00 | Y | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 7 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 8 | 04:45 | 10.50 | Y | | | | | | | | | | | |
| 9 | 04:45 | 11.30 | Y | 3.25 | 7.5 | | | | | | | | | |
| 10 | 04:15 | 10.00 | Y | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 14 | 04:45 | 11.30 | Y | | 7.4 | | | | | | | | >7.6 | |
| 15 | 04:30 | 10.50 | Y | | | | | | | | | | | |
| 16 | 04:45 | 10.30 | Y | 3.01 | | 4.0 | <5.0 | 8.8 | <0.10 | <0.005 | 0.060 | 0.0788 | | |
| 17 | 04:45 | 10.70 | Y | | 7.4 | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 04:30 | 12.00 | Y | | | | | | | | | | | |
| 20 | 04:30 | 12.00 | Y | 5.10 | 7.5 | | | | | | | | | |
| 21 | 04:30 | 8.00 | Y | | | | | | | | | | | |
| 22 | 05:45 | 9.30 | B | | | | | | | | | | | |
| 23 | 06:00 | 9.30 | B | | | | | | | | | | | |
| 24 | 07:30 | 8.50 | B | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 28 | 04:45 | 11.70 | Y | | | | | | | | | | | |
| 29 | 04:45 | 12.30 | Y | 3.50 | 7.3 | | | | | | | | | |
| 30 | 04:45 | 2.50 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.67 | | 4.0 | 0 | 8.8 | 0 | 0 | 0.060 | 0.0788 | >7.6 | |
| Maximum | | | | 5.10 | 8.1 | 4.0 | <5.0 | 8.8 | <0.10 | <0.005 | 0.060 | 0.0788 | >7.6 | |
| Minimum | | | | 3.01 | 7.3 | 4.0 | <5.0 | 8.8 | <0.10 | <0.005 | 0.060 | 0.0788 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | April | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | 0.0152 | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | 0.0124 | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | <0.001 | <0.001 | 119 | <0.005 | 0.77 | <0.005 | 0.124 | 0.0132 | <0.005 | <0.010 | 0.015 | 0.0139 | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.0167 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | 0.0249 | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | 0 | 0 | 119 | 0 | 0.77 | 0 | 0.124 | 0.0132 | 0 | 0 | 0.015 | 0.0166 | | |
| **Maximum** | <0.001 | <0.001 | 119 | <0.005 | 0.77 | <0.005 | 0.124 | 0.0132 | <0.005 | <0.010 | 0.015 | 0.0249 | | |
| **Minimum** | <0.001 | <0.001 | 119 | <0.005 | 0.77 | <0.005 | 0.124 | 0.0132 | <0.005 | <0.010 | 0.015 | 0.0124 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month April | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant | (2)
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 240.7 | 31.7 | | | 0 | 0 | | | | | | | |
| 2 | 240.7 | 32.3 | | 7.5 | 0 | 0 | | | | | | | |
| 3 | 240.7 | 29.8 | | | 0 | 0 | | | | | | | |
| 4 | 240.7 | 31.6 | | | 0 | 0 | | | | | | | |
| 5 | 240.7 | 33.1 | | | 0 | 0 | | | | | | | |
| 6 | 240.7 | 33.6 | | | 0 | 0 | | | | | | | |
| 7 | 240.7 | 33.6 | | | 0 | 0 | | | | | | | |
| 8 | 240.7 | 31.2 | | | 0 | 0 | | | | | | | |
| 9 | 240.7 | 30.1 | | 7.5 | 0 | 0 | | | | | | | |
| 10 | 240.7 | 28.5 | | | 0 | 0 | | | | | | | |
| 11 | 240.7 | 27.7 | | | 0 | 0 | | | | | | | |
| 12 | 240.7 | 29.2 | | | 0 | 0 | | | | | | | |
| 13 | 240.7 | 31.7 | | | 0 | 0 | | | | | | | |
| 14 | 240.7 | 32.5 | | 7.4 | 0 | 0 | | | | | | | |
| 15 | 240.7 | 32.0 | | | 0 | 0 | | | | | | | |
| 16 | 240.7 | 31.8 | | | 0 | 0 | | | | | | | |
| 17 | 240.7 | 30.5 | | | 0 | 0 | | | | | | | |
| 18 | 240.7 | 29.7 | | | 0 | 0 | | | | | | | |
| 19 | 240.7 | 29.5 | | | 0 | 0 | | | | | | | |
| 20 | 240.7 | 32.4 | | 7.4 | 0 | 0 | | | | | | | |
| 21 | 276.7 | 30.7 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 31.1 | | | 0 | 0 | | | | | | | |
| 23 | 294.5 | 32.3 | | | 0 | 0 | | | | | | | |
| 24 | 290.0 | 30.4 | | | 0 | 0 | | | | | | | |
| 25 | 305.5 | 34.1 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 34.5 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 35.7 | | | 0 | 0 | | | | | | | |
| 28 | 305.5 | 36.0 | 60 | | 80 | 80 | | | | | | | |
| 29 | 305.5 | 35.1 | 60 | 7.3 | 120 | 120 | | | | | | | |
| 30 | 305.5 | 35.5 | 70 | | 120 | 120 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 260.4 | 31.9 | 63 | | 11 | 11 | | | | | | | |
| Maximum | 305.5 | 36.0 | 70 | 7.5 | 120 | 120 | | | | | | | |
| Minimum | 240.7 | 27.7 | 60 | 7.3 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | April | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | | (828) 687-5230 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | April | **Year** 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | 0.445 | | 0.34 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 0.390 | | 0.20 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | 0.390 | 12.0 | 0.27 | 0.565 | 0.0145 | <0.001 | <0.001 | 1380 | 0.0085 | <0.005 | 1.6 | <0.005 | 0.0365 | <0.005 | <0.005 | <0.010 | <0.010 |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.532 | | 0.36 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.390 | | 0.52 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.429 | 12.0 | 0.34 | 0.565 | 0.0145 | 0 | 0 | 1380 | 0.0085 | 0 | 1.6 | 0 | 0.0365 | 0 | 0 | 0 | 0 |
| **Maximum** | 0.532 | 12.0 | 0.52 | 0.565 | 0.0145 | <0.001 | <0.001 | 1380 | 0.0085 | <0.005 | 1.6 | <0.005 | 0.0365 | <0.005 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.390 | 12.0 | 0.20 | 0.565 | 0.0145 | <0.001 | <0.001 | 1380 | 0.0085 | <0.005 | 1.6 | <0.005 | 0.0365 | <0.005 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements **XXXX**

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

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Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 4/16/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 43.6 | 54.77 |
| Selenite [SE (IV)] | 36.0 | 45.23 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting
Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 04:45 | 10.30 | Y | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 06:00 | 9.20 | B | | | | | | | | | | | |
| 5 | 04:45 | 11.30 | Y | | | | | | | | | | | |
| 6 | 04:45 | 11.30 | Y | | | | | | | | | | | |
| 7 | 04:45 | 7.70 | Y | 4.01 | 7.7 | | | | | | | | | |
| 8 | 04:30 | 11.00 | Y | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 05:30 | 9.00 | B | | | | | | | | | | | |
| 12 | 04:45 | 11.50 | Y | 3.01 | 7.2 | 2.8 | <5.0 | | | | 0.0808 | 0.0707 | | |
| 13 | 04:45 | 11.30 | Y | | | | | | | | | | | |
| 14 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 15 | 04:45 | 11.00 | Y | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | 05:10 | 11.00 | B | | | | | | | | | | | |
| 19 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 20 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 21 | 04:45 | 10.70 | Y | 3.50 | 6.7 | | | | | | | | | |
| 22 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | Holiday | | N | | | | | | | | | | | |
| 26 | 04:45 | 10.70 | Y | | | | | | | | | | | |
| 27 | 04:30 | 10.70 | Y | | | | | | | | | | | |
| 28 | 04:45 | 11.50 | Y | 3.50 | 7.4 | | | | | | | | | |
| 29 | 04:30 | 11.00 | Y | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | N | | | | | | | | | | | |
| Average | | | | 3.50 | | 2.8 | 0 | | | | 0.0808 | 0.0707 | | |
| Maximum | | | | 4.01 | 7.7 | 2.8 | <5.0 | | | | 0.0808 | 0.0707 | | |
| Minimum | | | | 3.01 | 6.7 | 2.8 | <5.0 | | | | 0.0808 | 0.0707 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements XXXX
All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

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Attn: Central Files
North Carolina Division of Water Quality
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | 0.0281 | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | 98.6 | | | | | | | | | 0.0296 | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | 0.0324 | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | 0.0370 | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 98.6 | | | | | | | | | 0.0318 | | |
| Maximum | | | 98.6 | | | | | | | | | 0.0370 | | |
| Minimum | | | 98.6 | | | | | | | | | 0.0281 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month May | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 35.4 | | | 0 | 0 | | | | | | | |
| 2 | 305.5 | 35.8 | | | 120 | 120 | | | | | | | |
| 3 | 305.5 | 34.9 | | | 120 | 120 | | | | | | | |
| 4 | 305.5 | 36.4 | 70 | | 120 | 120 | | | | | | | |
| 5 | 305.5 | 34.1 | 60 | | 80 | 80 | | | | | | | |
| 6 | 305.5 | 35.4 | | | 0 | 0 | | | | | | | |
| 7 | 305.5 | 36.0 | | 7.5 | 0 | 0 | | | | | | | |
| 8 | 305.5 | 35.7 | | | 0 | 0 | | | | | | | |
| 9 | 305.5 | 35.5 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 35.2 | | | 0 | 0 | | | | | | | |
| 11 | 305.5 | 35.7 | | | 0 | 0 | | | | | | | |
| 12 | 305.5 | 35.1 | | 7.8 | 0 | 0 | | | | | | | |
| 13 | 305.5 | 34.8 | | | 0 | 0 | | | | | | | |
| 14 | 263.3 | 32.0 | | | 0 | 0 | | | | | | | |
| 15 | 240.5 | 33.4 | | | 0 | 0 | | | | | | | |
| 16 | 155.5 | 34.2 | | | 0 | 0 | | | | | | | |
| 17 | 244.1 | 31.5 | | | 0 | 0 | | | | | | | |
| 18 | 284.4 | 31.2 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 34.3 | 70 | | 80 | 80 | | | | | | | |
| 20 | 305.5 | 34.7 | 80 | | 120 | 120 | | | | | | | |
| 21 | 305.5 | 35.5 | 100 | 7.7 | 120 | 120 | | | | | | | |
| 22 | 305.5 | 34.3 | | | 0 | 0 | | | | | | | |
| 23 | 305.5 | 35.0 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 35.1 | | | 0 | 0 | | | | | | | |
| 25 | 305.5 | 35.4 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 37.1 | 60 | | 80 | 80 | | | | | | | |
| 27 | 305.5 | 36.2 | 70 | | 120 | 120 | | | | | | | |
| 28 | 305.5 | 36.0 | 50 | 7.2 | 120 | 120 | | | | | | | |
| 29 | 305.5 | 34.0 | | | 0 | 0 | | | | | | | |
| 30 | 245.3 | 33.9 | | | 120 | 120 | | | | | | | |
| 31 | 238.0 | 34.6 | | | 120 | 120 | | | | | | | |
| Average | 290.4 | 34.8 | 70 | | 43 | 43 | | | | | | | |
| Maximum | 305.5 | 37.1 | 100 | 7.8 | 120 | 120 | | | | | | | |
| Minimum | 155.5 | 31.2 | 50 | 7.2 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | May | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
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| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** May **Year** 2009
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | 0.417 | | 0.53 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | 0.376 | 10.4 | 0.50 | 0.405 | 0.023 | <0.001 | <0.001 | 1320 | 0.0099 | <0.005 | 1.4 | <0.005 | 0.0373 | <0.005 | <0.005 | <0.010 | <0.010 |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | 0.376 | | 0.58 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | 0.376 | | 0.51 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.386 | 10.4 | 0.53 | 0.405 | 0.023 | 0 | 0 | 1320 | 0.0099 | 0 | 1.4 | 0 | 0.0373 | 0 | 0 | 0 | 0 |
| Maximum | 0.417 | 10.4 | 0.58 | 0.405 | 0.023 | <0.001 | <0.001 | 1320 | 0.0099 | <0.005 | 1.4 | <0.005 | 0.0373 | <0.005 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.376 | 10.4 | 0.50 | 0.405 | 0.023 | <0.001 | <0.001 | 1320 | 0.0099 | <0.005 | 1.4 | <0.005 | 0.0373 | <0.005 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

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Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 5/12/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 32.6 | 41.53 |
| Selenite [SE (IV)] | 45.9 | 58.47 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month June | Year 2009

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 04:45 | 11.50 | Y | | | | | | | | | | | |
| 2 | 04:45 | 12.00 | Y | 3.25 | 6.9 | | | | | | | | | |
| 3 | 04:45 | 11.70 | Y | | | | | | | | | | | |
| 4 | 04:45 | 11.30 | Y | | | | | | | | | | | |
| 5 | 07:30 | 10.00 | B | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 9 | 04:45 | 11.30 | Y | | | | | | | | | | | |
| 10 | 04:45 | 10.70 | Y | 4.01 | 7.2 | | | | | | | | | |
| 11 | 04:15 | 10.70 | Y | | | | | | | | | | | |
| 12 | 04:45 | 11.70 | Y | | | | | | | | | | | |
| 13 | 05:15 | 6.00 | Y | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 16 | 04:45 | 11.30 | Y | | | | | | | | | | | |
| 17 | 04:30 | 11.50 | Y | | | | | | | | | | | |
| 18 | 04:15 | 12.00 | Y | 4.55 | 7.6 | <8.3 | <5.0 | | | | 0.0772 | 0.0567 | | |
| 19 | 04:15 | 11.00 | Y | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 07:30 | 8.50 | B | | | | | | | | | | | |
| 23 | 07:30 | 8.50 | B | | | | | | | | | | | |
| 24 | 04:00 | 12.00 | Y | 5.10 | 7.4 | | | | | | | | | |
| 25 | 04:00 | 12.50 | Y | | | | | | | | | | | |
| 26 | 04:00 | 12.50 | Y | | | | | | | | | | | |
| 27 | 03:45 | 12.00 | Y | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | 04:00 | 12.30 | Y | | | | | | | | | | | |
| 30 | 03:50 | 11.70 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 4.23 | | 0 | 0 | | | | 0.0772 | 0.0567 | | |
| Maximum | | | | 5.10 | 7.6 | <8.3 | <5.0 | | | | 0.0772 | 0.0567 | | |
| Minimum | | | | 3.25 | 6.9 | <8.3 | <5.0 | | | | 0.0772 | 0.0567 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | June | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | 0.0564 | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | 0.0381 | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | 49.4 | | | | | | | | | 0.0315 | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | 0.0407 | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 49.4 | | | | | | | | | 0.0417 | | |
| **Maximum** | | | 49.4 | | | | | | | | | 0.0564 | | |
| **Minimum** | | | 49.4 | | | | | | | | | 0.0315 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month June | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 225.8 | 36.2 | 70 | | 120 | 120 | | | | | | | |
| 2 | 305.5 | 37.8 | 50 | 6.9 | 120 | 120 | | | | | | | |
| 3 | 305.5 | 37.4 | 60 | | 120 | 120 | | | | | | | |
| 4 | 305.5 | 38.1 | 60 | | 80 | 80 | | | | | | | |
| 5 | 305.5 | 37.2 | | | 0 | 0 | | | | | | | |
| 6 | 305.5 | 35.1 | | | 0 | 0 | | | | | | | |
| 7 | 305.5 | 36.0 | | | 0 | 0 | | | | | | | |
| 8 | 305.5 | 37.8 | | | 0 | 0 | | | | | | | |
| 9 | 305.5 | 38.4 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 38.6 | | 6.9 | 0 | 0 | | | | | | | |
| 11 | 305.5 | 39.6 | | | 0 | 0 | | | | | | | |
| 12 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 13 | 305.5 | 38.8 | | | 120 | 120 | | | | | | | |
| 14 | 305.5 | 40.5 | | | 120 | 120 | | | | | | | |
| 15 | 305.5 | 39.2 | 110 | | 120 | 120 | | | | | | | |
| 16 | 305.5 | 40.3 | 80 | | 120 | 120 | | | | | | | |
| 17 | 305.5 | 40.2 | 70 | | 120 | 120 | | | | | | | |
| 18 | 305.5 | 39.1 | 80 | 6.9 | 120 | 120 | | | | | | | |
| 19 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 40.3 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 40.2 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 39.6 | | | 0 | 0 | | | | | | | |
| 23 | 305.5 | 40.6 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 39.9 | | 6.7 | 0 | 0 | | | | | | | |
| 25 | 305.5 | 40.7 | 90 | | 100 | 100 | | | | | | | |
| 26 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 40.5 | | | 120 | 120 | | | | | | | |
| 28 | 305.5 | 40.8 | | | 120 | 120 | | | | | | | |
| 29 | 305.5 | 40.7 | 70 | | 120 | 120 | | | | | | | |
| 30 | 305.5 | 40.5 | 60 | | 120 | 120 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 302.8 | 39.2 | 73 | | 58 | 58 | | | | | | | |
| Maximum | 305.5 | 40.8 | 110 | 6.9 | 120 | 120 | | | | | | | |
| Minimum | 225.8 | 35.1 | 50 | 6.7 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | June | Year | 2009 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Mariea H. Keezel | Grade | P/C I | | Phone | (828) 687-5230 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
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| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

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| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

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## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** June **Year** 2009
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | 0.363 | | 0.81 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 0.390 | | 0.76 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | 0.403 | <8.3 | 0.76 | 0.221 | <0.005 | <0.001 | <0.001 | 673 | <0.005 | <0.005 | 1.4 | <0.005 | 0.0856 | 0.0073 | <0.005 | <0.010 | <0.010 |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | 0.390 | | 0.76 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.386 | 0 | 0.77 | 0.221 | 0 | 0 | 0 | 673 | 0 | 0 | 1.4 | 0 | 0.0856 | 0.0073 | 0 | 0 | 0 |
| **Maximum** | 0.403 | <8.3 | 0.81 | 0.221 | <0.005 | <0.001 | <0.001 | 673 | <0.005 | <0.005 | 1.4 | <0.005 | 0.0856 | 0.0073 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.363 | <8.3 | 0.76 | 0.221 | <0.005 | <0.001 | <0.001 | 673 | <0.005 | <0.005 | 1.4 | <0.005 | 0.0856 | 0.0073 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | | G | G | G | G | G | G | G | G | G | G | G | G | G | | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 6/18/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 2.69 | 5.76 |
| Selenite [SE (IV)] | 44.0 | 94.24 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month July | Year 2009

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions, Inc.

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 04:00 | 11.50 | Y | 3.75 | 7.3 | | | | | | | | | |
| 2 | 05:30 | 9.50 | B | | | | | | | | | | | |
| 3 | Holiday | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | 07:30 | 9.00 | B | | | | | | | | | | | |
| 7 | 07:30 | 9.00 | B | 3.25 | 7.4 | | | | | | | | | |
| 8 | 07:30 | 9.00 | B | | | | | | | | | | | |
| 9 | 07:30 | 9.00 | B | | | | | | | | | | | |
| 10 | 07:30 | 9.00 | B | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | 05:00 | 10.00 | B | | | | | | | | | | | |
| 14 | 05:00 | 10.00 | B | | | | | | | | | | | |
| 15 | 05:00 | 11.80 | B | 3.50 | 7.5 | | | | | | | | | |
| 16 | 05:00 | 10.00 | B | | | | | | | | | | | |
| 17 | 07:30 | 10.00 | B | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | 07:30 | 9.00 | B | | | | | | | | | | | |
| 21 | 13:00 | 4.30 | Y | | 7.3 | | | | | | | | >7.6 | |
| 22 | 04:15 | 12.00 | Y | 4.01 | | <2.5 | <5.0 | 6.7 | <0.10 | <0.005 | 0.108 | 0.0669 | | |
| 23 | 04:30 | 12.00 | Y | | | | | | | | | | | |
| 24 | 04:30 | 12.00 | Y | | 7.2 | | | | | | | | | |
| 25 | 06:30 | 2.00 | Y | | | | | | | | | | | |
| 26 | 07:15 | 4.70 | Y | | | | | | | | | | | |
| 27 | 05:00 | 10.00 | B | | | | | | | | | | | |
| 28 | 04:30 | 11.50 | Y | | | | | | | | | | | |
| 29 | 04:30 | 11.00 | Y | 3.50 | 7.2 | | | | | | | | | |
| 30 | 04:30 | 12.00 | Y | | | | | | | | | | | |
| 31 | 04:15 | 12.00 | Y | | | | | | | | | | | |
| Average | | | | 3.60 | | 0 | 0 | 6.7 | 0 | 0 | 0.108 | 0.0669 | >7.6 | |
| Maximum | | | | 4.01 | 7.5 | <2.5 | <5.0 | 6.7 | <0.10 | <0.005 | 0.108 | 0.0669 | >7.6 | |
| Minimum | | | | 3.25 | 7.2 | <2.5 | <5.0 | 6.7 | <0.10 | <0.005 | 0.108 | 0.0669 | >7.6 | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | July | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | 0.0419 | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | 0.0307 | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | 0.0378 | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | <0.001 | <0.001 | 83.3 | <0.005 | 0.83 | <0.005 | 0.116 | <0.005 | <0.005 | <0.010 | <0.010 | 0.0357 | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | 0.0283 | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 0 | 0 | 83.3 | 0 | 0.83 | 0 | 0.116 | 0 | 0 | 0 | 0 | 0.0349 | | |
| Maximum | <0.001 | <0.001 | 83.3 | <0.005 | 0.83 | <0.005 | 0.116 | <0.005 | <0.005 | <0.010 | <0.010 | 0.0419 | | |
| Minimum | <0.001 | <0.001 | 83.3 | <0.005 | 0.83 | <0.005 | 0.116 | <0.005 | <0.005 | <0.010 | <0.010 | 0.0283 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month July | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 39.5 | 70 | 7.4 | 80 | 80 | | | | | | | |
| 2 | 305.5 | 40.6 | | | 0 | 0 | | | | | | | |
| 3 | 305.5 | 38.5 | | | 0 | 0 | | | | | | | |
| 4 | 305.5 | 38.6 | | | 0 | 0 | | | | | | | |
| 5 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 6 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 7 | 305.5 | 41.1 | | 7.4 | 0 | 0 | | | | | | | |
| 8 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 9 | 305.5 | 39.6 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 11 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 12 | 305.5 | 40.3 | | | 0 | 0 | | | | | | | |
| 13 | 305.5 | 39.9 | 80 | | 80 | 80 | | | | | | | |
| 14 | 305.5 | 39.7 | 80 | | 120 | 120 | | | | | | | |
| 15 | 305.5 | 40.2 | 80 | 8.0 | 120 | 120 | | | | | | | |
| 16 | 305.5 | 40.6 | 90 | | 80 | 80 | | | | | | | |
| 17 | 305.5 | 40.3 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 38.8 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 38.8 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 38.7 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 38.7 | 80 | | 80 | 80 | | | | | | | |
| 22 | 305.5 | 38.9 | 80 | 7.6 | 120 | 120 | | | | | | | |
| 23 | 305.5 | 39.7 | 80 | | 120 | 120 | | | | | | | |
| 24 | 305.5 | 39.0 | | | 0 | 0 | | | | | | | |
| 25 | 305.5 | 39.1 | | | 120 | 120 | | | | | | | |
| 26 | 305.5 | 39.9 | | | 120 | 120 | | | | | | | |
| 27 | 305.5 | 40.1 | 70 | | 120 | 120 | | | | | | | |
| 28 | 305.5 | 40.7 | 70 | | 120 | 120 | | | | | | | |
| 29 | 305.5 | 40.5 | 60 | 7.5 | 120 | 120 | | | | | | | |
| 30 | 305.5 | 40.6 | 50 | | 120 | 120 | | | | | | | |
| 31 | 305.5 | 40.6 | | | 0 | 0 | | | | | | | |
| Average | 305.5 | 39.8 | 74 | | 49 | 49 | | | | | | | |
| Maximum | 305.5 | 41.1 | 90 | 8.0 | 120 | 120 | | | | | | | |
| Minimum | 305.5 | 38.5 | 50 | 7.4 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

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Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | July | Year | 2009 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Mariea H. Keezel | Grade | P/C I | | Phone | (828) 687-5230 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

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| | | | |
|---|---|---|---|
| Garry A. Whisnant | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| 200 CP&L Drive | Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010 |
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## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | July | **Year** 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | **Phone** | (828) 687-5230 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.473 | | 0.60 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | 0.253 | | 0.38 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | 0.312 | | 0.55 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
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| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | 0.445 | 9.4 | 0.57 | 0.243 | <0.005 | <0.001 | <0.001 | 1000 | <0.005 | <0.005 | 2.0 | <0.005 | 0.064 | 0.0052 | <0.005 | <0.010 | <0.010 |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.390 | | 0.33 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.375 | 9.4 | 0.49 | 0.243 | 0 | 0 | 0 | 1000 | 0 | 0 | 2.0 | 0 | 0.0640 | 0.0052 | 0 | 0 | 0 |
| **Maximum** | 0.473 | 9.4 | 0.60 | 0.243 | <0.005 | <0.001 | <0.001 | 1000 | <0.005 | <0.005 | 2.0 | <0.005 | 0.0640 | 0.0052 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.253 | 9.4 | 0.33 | 0.243 | <0.005 | <0.001 | <0.001 | 1000 | <0.005 | <0.005 | 2.0 | <0.005 | 0.0640 | 0.0052 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 7/22/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 24.30 | 32.06 |
| Selenite [SE (IV)] | 51.5 | 67.94 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month August | Year 2009

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 04:15 | 12.30 | Y | | | | | | | | | | | |
| 4 | 07:30 | 9.00 | Y | 3.50 | 7.3 | | | | | | | | | |
| 5 | 04:15 | 11.70 | Y | | | | | | | | | | | |
| 6 | 07:30 | 9.00 | Y | | | | | | | | | | | |
| 7 | 04:15 | 12.00 | Y | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 06:00 | 9.00 | B | | | | | | | | | | | |
| 11 | 04:00 | 12.10 | Y | | | | | | | | | | | |
| 12 | 04:15 | 12.30 | Y | | | | | | | | | | | |
| 13 | 04:15 | 12.00 | Y | 3.50 | 7.2 | <2.8 | <5.0 | | | | 0.0602 | 0.0574 | | |
| 14 | 04:30 | 12.00 | Y | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 07:30 | 9.50 | B | | | | | | | | | | | |
| 18 | 04:30 | 11.50 | Y | | | | | | | | | | | |
| 19 | 04:30 | 11.50 | Y | | | | | | | | | | | |
| 20 | 04:30 | 11.50 | Y | 3.75 | 7.2 | | | | | | | | | |
| 21 | 04:30 | 11.70 | Y | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 05:30 | 10.00 | B | | | | | | | | | | | |
| 25 | 04:30 | 11.00 | Y | | | | | | | | | | | |
| 26 | 04:15 | 10.70 | Y | 3.25 | 7.1 | | | | | | | | | |
| 27 | 04:15 | 11.50 | Y | | | | | | | | | | | |
| 28 | 04:15 | 11.30 | Y | | | | | | | | | | | |
| 29 | 04:30 | 7.00 | Y | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | 06:00 | 9.50 | B | | | | | | | | | | | |
| Average | | | | 3.50 | | 0 | 0 | | | | 0.0602 | 0.0574 | | |
| Maximum | | | | 3.75 | 7.3 | <2.8 | <5.0 | | | | 0.0602 | 0.0574 | | |
| Minimum | | | | 3.25 | 7.1 | <2.8 | <5.0 | | | | 0.0602 | 0.0574 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | August | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Mariea H. Keezel | **Grade** | P/C I | | | **Phone** | (828) 687-5230 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | 0.0306 | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | 126 | | | | | | | | | 0.0332 | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.0287 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | 0.0386 | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 126 | | | | | | | | | 0.0328 | | |
| **Maximum** | | | 126 | | | | | | | | | 0.0386 | | |
| **Minimum** | | | 126 | | | | | | | | | 0.0287 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month August | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Mariea H. Keezel | Grade P/C I | Phone (828) 687-5230
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 40.2 | | | 0 | 0 | | | | | | | |
| 2 | 305.5 | 39.5 | | | 0 | 0 | | | | | | | |
| 3 | 305.5 | 40.9 | | | 0 | 0 | | | | | | | |
| 4 | 305.5 | 40.6 | | 8.1 | 0 | 0 | | | | | | | |
| 5 | 305.5 | 40.3 | | | 0 | 0 | | | | | | | |
| 6 | 305.5 | 39.9 | | | 0 | 0 | | | | | | | |
| 7 | 305.5 | 39.1 | | | 0 | 0 | | | | | | | |
| 8 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| 9 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 41.9 | | | 0 | 0 | | | | | | | |
| 11 | 305.5 | 42.1 | | | 0 | 0 | | | | | | | |
| 12 | 305.5 | 41.1 | | | 0 | 0 | | | | | | | |
| 13 | 305.5 | 41.0 | 90 | 7.6 | 80 | 80 | | | | | | | |
| 14 | 305.5 | 40.9 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 39.9 | | | 120 | 120 | | | | | | | |
| 16 | 305.5 | 40.3 | | | 120 | 120 | | | | | | | |
| 17 | 305.5 | 41.5 | 80 | | 120 | 120 | | | | | | | |
| 18 | 305.5 | 41.1 | 90 | | 120 | 120 | | | | | | | |
| 19 | 305.5 | 41.2 | 70 | | 120 | 120 | | | | | | | |
| 20 | 305.5 | 41.1 | 60 | 7.8 | 120 | 120 | | | | | | | |
| 21 | 305.5 | 40.9 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 40.8 | | | 120 | 120 | | | | | | | |
| 23 | 305.5 | 39.9 | | | 120 | 120 | | | | | | | |
| 24 | 302.8 | 39.4 | 70 | | 120 | 120 | | | | | | | |
| 25 | 305.5 | 40.9 | 70 | | 120 | 120 | | | | | | | |
| 26 | 305.5 | 40.3 | 70 | 7.8 | 120 | 120 | | | | | | | |
| 27 | 305.5 | 40.5 | 70 | | 120 | 120 | | | | | | | |
| 28 | 305.5 | 40.8 | | | 0 | 0 | | | | | | | |
| 29 | 305.5 | 40.7 | | | 0 | 0 | | | | | | | |
| 30 | 305.5 | 40.6 | | | 0 | 0 | | | | | | | |
| 31 | 305.5 | 40.4 | | | 0 | 0 | | | | | | | |
| Average | 305.4 | 40.6 | 74 | | 49 | 49 | | | | | | | |
| Maximum | 305.5 | 42.1 | 90 | 8.1 | 120 | 120 | | | | | | | |
| Minimum | 302.8 | 39.1 | 60 | 7.6 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

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Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | August | Year | 2009 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Mariea H. Keezel | Grade | P/C I | | Phone | (828) 687-5230 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** August **Year** 2009
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Mariea H. Keezel **Grade** P/C I **Phone** (828) 687-5230
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
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**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Flouride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | 0.300 | | 0.46 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | 0.363 | 3.3 | 0.48 | 0.435 | 0.0151 | <0.001 | <0.001 | 1400 | 0.0053 | <0.005 | 1.6 | <0.005 | 0.137 | <0.005 | <0.005 | <0.010 | <0.010 |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.390 | | 0.44 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | 0.376 | | 0.40 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.357 | 3.3 | 0.44 | 0.435 | 0.0151 | 0 | 0 | 1400 | 0.0053 | 0 | 1.6 | 0 | 0.137 | 0 | 0 | 0 | 0 |
| Maximum | 0.390 | 3.3 | 0.48 | 0.435 | 0.0151 | <0.001 | <0.001 | 1400 | 0.0053 | <0.005 | 1.6 | <0.005 | 0.137 | <0.005 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.300 | 3.3 | 0.40 | 0.435 | 0.0151 | <0.001 | <0.001 | 1400 | 0.0053 | <0.005 | 1.6 | <0.005 | 0.137 | <0.005 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 8/13/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 2.11 | 4.98 |
| Selenite [SE (IV)] | 40.3 | 95.02 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month September | Year 2009

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed √ | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 04:30 | 11.0 | Y | | | | | | | | | | | |
| 2 | 04:30 | 11.0 | Y | | | | | | | | | | | |
| 3 | 04:30 | 10.5 | Y | 3.01 | 7.2 | | | | | | | | | |
| 4 | 04:30 | 6.5 | Y | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 04:15 | 11.7 | Y | | | | | | | | | | | |
| 8 | 04:30 | 10.0 | Y | 3.01 | 7.1 | <2.6 | <5.0 | | | | 0.0587 | 0.0728 | | |
| 9 | 06:00 | 9.0 | B | | | | | | | | | | | |
| 10 | 04:30 | 11.5 | Y | | | | | | | | | | | |
| 11 | 04:30 | 9.8 | Y | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 05:30 | 9.0 | B | | | | | | | | | | | |
| 15 | 04:30 | 11.0 | Y | | | | | | | | | | | |
| 16 | 04:30 | 11.0 | Y | 3.01 | 7.3 | | | | | | | | | |
| 17 | 04:30 | 11.5 | Y | | | | | | | | | | | |
| 18 | 04:30 | 11.5 | Y | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | 04:00 | 12.0 | Y | | | | | | | | | | | |
| 22 | 04:00 | 11.5 | Y | | | | | | | | | | | |
| 23 | 04:00 | 11.3 | Y | | | | | | | | | | | |
| 24 | 03:45 | 12.5 | Y | 2.78 | 7.1 | | | | | | | | | |
| 25 | 07:30 | 10.0 | B | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | 05:00 | 10.0 | B | | | | | | | | | | | |
| 29 | 04:30 | 11.0 | Y | 2.55 | 7.0 | | | | | | | | | |
| 30 | 04:30 | 11.3 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 2.87 | | 0 | 0 | | | | 0.0587 | 0.0728 | | |
| Maximum | | | | 3.01 | 7.3 | <2.6 | <5.0 | | | | 0.0587 | 0.0728 | | |
| Minimum | | | | 2.55 | 7.0 | <2.6 | <5.0 | | | | 0.0587 | 0.0728 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | September | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | | (828) 687-5210 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | √ | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | 0.0535 | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | 207 | | | | | | | | | 0.0405 | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | 0.0215 | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | 0.0307 | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | 0.0522 | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 207 | | | | | | | | | 0.0397 | | |
| **Maximum** | | | 207 | | | | | | | | | 0.0535 | | |
| **Minimum** | | | 207 | | | | | | | | | 0.0215 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month September | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed √ | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305.5 | 40.7 | | | 0 | 0 | | | | | | | |
| 2 | 305.5 | 39.8 | | | 0 | 0 | | | | | | | |
| 3 | 305.5 | 40.1 | | 8.0 | 0 | 0 | | | | | | | |
| 4 | 305.5 | 38.7 | | | 0 | 0 | | | | | | | |
| 5 | 305.5 | 38.0 | | | 0 | 0 | | | | | | | |
| 6 | 305.5 | 38.3 | | | 0 | 0 | | | | | | | |
| 7 | 305.5 | 38.5 | | | 0 | 0 | | | | | | | |
| 8 | 305.5 | 38.0 | | 7.9 | 0 | 0 | | | | | | | |
| 9 | 305.5 | 37.6 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 37.8 | | | 0 | 0 | | | | | | | |
| 11 | 305.5 | 36.6 | | | 0 | 0 | | | | | | | |
| 12 | 305.5 | 36.9 | | | 0 | 0 | | | | | | | |
| 13 | 305.5 | 36.7 | | | 0 | 0 | | | | | | | |
| 14 | 305.5 | 37.8 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 38.9 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 38.3 | 70 | 7.6 | 80 | 80 | | | | | | | |
| 17 | 305.5 | 37.7 | 60 | | 120 | 120 | | | | | | | |
| 18 | 280.5 | 38.2 | | | 0 | 0 | | | | | | | |
| 19 | 273.0 | 38.1 | | | 120 | 120 | | | | | | | |
| 20 | 253.6 | 36.6 | | | 120 | 120 | | | | | | | |
| 21 | 279.9 | 37.2 | 80 | | 120 | 120 | | | | | | | |
| 22 | 283.9 | 38.0 | 60 | | 120 | 120 | | | | | | | |
| 23 | 285.1 | 38.2 | 80 | | 120 | 120 | | | | | | | |
| 24 | 286.8 | 38.9 | 70 | 7.2 | 120 | 120 | | | | | | | |
| 25 | 294.8 | 40.1 | | | 0 | 0 | | | | | | | |
| 26 | 278.9 | 37.7 | | | 120 | 120 | | | | | | | |
| 27 | 273.3 | 37.3 | | | 120 | 120 | | | | | | | |
| 28 | 283.0 | 37.5 | 80 | | 120 | 120 | | | | | | | |
| 29 | 284.0 | 36.8 | 70 | 7.1 | 120 | 120 | | | | | | | |
| 30 | 263.5 | 35.1 | 70 | | 120 | 120 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 293.8 | 38.0 | 71 | | 51 | 51 | | | | | | | |
| Maximum | 305.5 | 40.7 | 80 | 8.0 | 120 | 120 | | | | | | | |
| Minimum | 253.6 | 35.1 | 60 | 7.1 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

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Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | September | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | | (828) 687-5210 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | √ | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

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## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | September | **Year** 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | √ | **Person (s) Collecting Samples** | Lab Staff | | | |

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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | 0.363 | | 0.47 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | 0.363 | 4.2 | 0.65 | 0.371 | 0.0133 | <.001 | <.001 | 1740 | 0.0050 | <0.005 | 1.7 | <.005 | 0.1890 | 0.0062 | <.005 | <.010 | <.010 |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | 0.265 | | 0.35 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | 0.325 | | <0.20 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.312 | | 0.43 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.326 | 4.2 | 0.38 | 0.371 | 0.0133 | 0 | 0 | 1740 | 0.005 | 0 | 1.7 | 0 | 0.189 | 0.0062 | 0 | 0 | 0 |
| **Maximum** | 0.363 | 4.2 | 0.65 | 0.371 | 0.0133 | <0.001 | <0.001 | 1740 | 0.005 | <0.005 | 1.7 | <0.005 | 0.189 | 0.0062 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.265 | 4.2 | <0.20 | 0.371 | 0.0133 | <0.001 | <0.001 | 1740 | 0.005 | <0.005 | 1.7 | <0.005 | 0.189 | 0.0062 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 9/8/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 30.60 | 45.33 |
| Selenite [SE (IV)] | 36.9 | 54.67 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month October | Year 2009

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4) Environmental Testing Solutions

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 04:30 | 11.5 | Y | | | | | | | | | | |
| 2 | 04:15 | 11.5 | Y | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | |
| 5 | 04:30 | 11.0 | Y | | | | | | | | | | |
| 6 | 04:15 | 11.0 | Y | 3.01 | 7.2 | <2.8 | <5.0 | 7.6 | <0.10 | 0.0126 | 0.0374 | 0.0552 | >7.6 |
| 7 | 04:15 | 9.0 | Y | | | | | | | | | | |
| 8 | 06:10 | 10.0 | Y | | | | | | | | | | |
| 9 | 06:10 | 9.0 | Y | | 7.1 | | | | | | | | |
| 10 | | | N | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | |
| 12 | 06:00 | 10.5 | Y | | | | | | | | | | |
| 13 | 06:10 | 13.0 | Y | 2.78 | 7.0 | | | | | | | | |
| 14 | 06:00 | 10.5 | Y | | | | | | | | | | |
| 15 | 06:30 | 10.0 | Y | | | | | | | | | | |
| 16 | 06:30 | 10.0 | Y | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | |
| 19 | 06:40 | 11.5 | Y | | | | | | | | | | |
| 20 | 06:40 | 11.0 | Y | 3.01 | 7.4 | | | | | | | | |
| 21 | 06:30 | 9.5 | Y | | | | | | | | | | |
| 22 | 06:30 | 11.5 | Y | | | | | | | | | | |
| 23 | 07:00 | 10.5 | Y | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | |
| 26 | 06:30 | 9.5 | Y | | | | | | | | | | |
| 27 | 06:30 | 10.0 | Y | | | | | | | | | | |
| 28 | 07:00 | 9.5 | Y | 3.75 | 7.1 | | | | | | | | |
| 29 | 06:30 | 10.0 | Y | | | | | | | | | | |
| 30 | 07:00 | 9.0 | Y | | | | | | | | | | |
| 31 | | | N | | | | | | | | | | |
| Average | | | | 3.14 | | 0 | 0 | 7.6 | 0 | 0.0126 | 0.0374 | 0.0552 | >7.6 |
| Maximum | | | | 3.75 | 7.4 | <2.8 | <5.0 | 7.6 | <0.10 | 0.0126 | 0.0374 | 0.0552 | >7.6 |
| Minimum | | | | 2.78 | 7.0 | <2.8 | <5.0 | 7.6 | <0.10 | 0.0126 | 0.0374 | 0.0552 | >7.6 |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | October | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | | **Phone** | (828) 687-5210 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | <0.001 | <0.001 | 124 | <0.005 | 0.89 | <0.005 | 0.182 | 0.0186 | <0.005 | <0.010 | 0.0194 | 0.0161 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | 0.0266 | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.0217 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | 0.0091 | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 0 | 0 | 124 | 0 | 0.89 | 0 | 0.182 | 0.0186 | 0 | 0 | 0.0194 | 0.0184 | | |
| Maximum | <0.001 | <0.001 | 124 | <0.005 | 0.89 | <0.005 | 0.182 | 0.0186 | <0.005 | <0.010 | 0.0194 | 0.0266 | | |
| Minimum | <0.001 | <0.001 | 124 | <0.005 | 0.89 | <0.005 | 0.182 | 0.0186 | <0.005 | <0.010 | 0.0194 | 0.0091 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month October | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 240.7 | 33.3 | 80 | | 60 | 60 | | | | | | | |
| 2 | 240.7 | 32.9 | | | 0 | 0 | | | | | | | |
| 3 | 240.7 | 31.8 | | | 0 | 0 | | | | | | | |
| 4 | 242.9 | 31.0 | | | 0 | 0 | | | | | | | |
| 5 | 244.6 | 34.2 | | | 0 | 0 | | | | | | | |
| 6 | 254.2 | 32.7 | | 7.3 | 0 | 0 | | | | | | | |
| 7 | 305.5 | 33.7 | | | 0 | 0 | | | | | | | |
| 8 | 305.5 | 31.8 | 90 | | 60 | 80 | | | | | | | |
| 9 | 294.5 | 32.3 | | | 0 | 0 | | | | | | | |
| 10 | 240.7 | 33.7 | | | 120 | 120 | | | | | | | |
| 11 | 245.9 | 33.2 | | | 120 | 120 | | | | | | | |
| 12 | 240.7 | 32.9 | 90 | | 120 | 120 | | | | | | | |
| 13 | 259.9 | 33.0 | 110 | 7.8 | 120 | 120 | | | | | | | |
| 14 | 240.7 | 32.8 | 90 | | 120 | 120 | | | | | | | |
| 15 | 251.4 | 32.5 | 80 | | 120 | 120 | | | | | | | |
| 16 | 240.7 | 31.7 | | | 0 | 0 | | | | | | | |
| 17 | 240.7 | 31.4 | | | 120 | 120 | | | | | | | |
| 18 | 240.7 | 31.6 | | | 120 | 120 | | | | | | | |
| 19 | 240.7 | 32.0 | 90 | | 120 | 120 | | | | | | | |
| 20 | 240.7 | 31.8 | 70 | 6.9 | 80 | 60 | | | | | | | |
| 21 | 282.6 | 29.8 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 30.7 | | | 0 | 0 | | | | | | | |
| 23 | 214.9 | 29.7 | | | 0 | 0 | | | | | | | |
| 24 | 192.8 | 28.8 | | | 0 | 0 | | | | | | | |
| 25 | 232.5 | 28.6 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 27.4 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 28.4 | | | 0 | 0 | | | | | | | |
| 28 | 305.5 | 29.2 | | 6.9 | 0 | 0 | | | | | | | |
| 29 | 305.5 | 29.8 | | | 0 | 0 | | | | | | | |
| 30 | 305.5 | 29.0 | | | 0 | 0 | | | | | | | |
| 31 | 305.5 | 27.7 | | | 0 | 0 | | | | | | | |
| Average | 261.7 | 31.3 | 88 | | 41 | 41 | | | | | | | |
| Maximum | 305.5 | 34.2 | 110 | 7.8 | 120 | 120 | | | | | | | |
| Minimum | 192.8 | 27.4 | 70 | 6.9 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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Permittee (Please print or type)

Signature of Permittee** Date

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Permittee Address

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Phone Number Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | October | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | | (828) 687-5210 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | October | **Year** 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.338 | 2.8 | <0.20 | 0.364 | 0.0136 | <0.001 | <0.001 | 1460 | <0.005 | <0.005 | 1.8 | <0.005 | 0.106 | <0.005 | <0.005 | <0.010 | <0.010 |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | 0.312 | | 0.25 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.338 | | 0.45 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | 0.376 | | <0.20 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.341 | 2.8 | 0.18 | 0.364 | 0.0136 | 0 | 0 | 1460 | 0 | 0 | 1.8 | 0 | 0.106 | 0 | 0 | 0 | 0 |
| **Maximum** | 0.376 | 2.8 | 0.45 | 0.364 | 0.0136 | <0.001 | <0.001 | 1460 | <0.005 | <0.005 | 1.8 | <0.005 | 0.106 | <0.005 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.312 | 2.8 | <0.20 | 0.364 | 0.0136 | <0.001 | <0.001 | 1460 | <0.005 | <0.005 | 1.8 | <0.005 | 0.106 | <0.005 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 10/6/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 26.40 | 50.19 |
| Selenite [SE (IV)] | 26.2 | 49.81 |

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 001 **Month** November **Year** 2009
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Crystal R. Diedrich **Grade** P/C I **Phone** (828) 687-5210
**Certified Laboratories:** (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting
**Check If ORC has Changed** **Person (s) Collecting Samples:** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | 06:30 | 11.0 | Y | | | | | | | | | | | |
| 3 | 06:40 | 10.0 | Y | 2.78 | 7.1 | | | | | | | | | |
| 4 | 06:40 | 5.3 | Y | | | | | | | | | | | |
| 5 | 05:30 | 9.0 | B | | | | | | | | | | | |
| 6 | 06:15 | 6.0 | B | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | 06:00 | 10.5 | Y | | | | | | | | | | | |
| 10 | 07:00 | 10.5 | Y | | | | | | | | | | | |
| 11 | 07:00 | 9.3 | Y | | | | | | | | | | | |
| 12 | 07:00 | 10.0 | Y | 3.50 | 7.3 | 3.5 | <5.0 | | | | 0.0408 | 0.0392 | | |
| 13 | 07:30 | 8.3 | Y | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | 06:45 | 9.5 | Y | | | | | | | | | | | |
| 17 | 06:30 | 10.0 | Y | 3.25 | 7.3 | | | | | | | | | |
| 18 | 10:30 | 7.0 | Y | | | | | | | | | | | |
| 19 | 07:00 | 10.3 | Y | | | | | | | | | | | |
| 20 | 07:30 | 10.5 | Y | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | 05:30 | 9.0 | B | | | | | | | | | | | |
| 24 | 05:00 | 7.5 | B | 3.01 | 7.4 | | | | | | | | | |
| 25 | 05:00 | 7.5 | B | | | | | | | | | | | |
| 26 | Holiday | | N | | | | | | | | | | | |
| 27 | Holiday | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | 07:00 | 9.5 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | 3.14 | | 3.5 | 0 | | | | 0.0408 | 0.0392 | | |
| **Maximum** | | | | 3.50 | 7.4 | 3.5 | <5.0 | | | | 0.0408 | 0.0392 | | |
| **Minimum** | | | | 2.78 | 7.1 | 3.5 | <5.0 | | | | 0.0408 | 0.0392 | | |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G | |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)
All monitoring data and sampling frequencies meet permit requirements **XXXX**
All monitoring data and sampling frequencies do NOT meet permit requirements

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**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive** **Arden, N.C.** **28704** | **(828) 684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

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## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | November | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | | (828) 687-5210 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | 0.0235 | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | 69.1 | | | | | | | | | 0.0120 | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | 0.0157 | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | 0.0185 | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 69.1 | | | | | | | | | 0.0174 | | |
| **Maximum** | | | 69.1 | | | | | | | | | 0.0235 | | |
| **Minimum** | | | 69.1 | | | | | | | \ | | 0.0120 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

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**December 31, 2010**
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# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month November | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
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(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 318.3 | 28.3 | | | 0 | 0 | | | | | | | |
| 2 | 305.5 | 28.7 | | | 0 | 0 | | | | | | | |
| 3 | 305.5 | 29.9 | | 7.2 | 0 | 0 | | | | | | | |
| 4 | 281.4 | 30.3 | | | 0 | 0 | | | | | | | |
| 5 | 256.3 | 29.7 | | | 0 | 0 | | | | | | | |
| 6 | 240.7 | 30.7 | | | 0 | 0 | | | | | | | |
| 7 | 240.7 | 31.0 | | | 0 | 0 | | | | | | | |
| 8 | 240.7 | 28.9 | | | 0 | 0 | | | | | | | |
| 9 | 240.7 | 30.7 | | | 0 | 0 | | | | | | | |
| 10 | 240.7 | 31.2 | | | 0 | 0 | | | | | | | |
| 11 | 240.7 | 30.7 | | | 0 | 0 | | | | | | | |
| 12 | 240.7 | 30.5 | | 7.1 | 0 | 0 | | | | | | | |
| 13 | 240.7 | 27.6 | | | 0 | 0 | | | | | | | |
| 14 | 254.0 | 26.1 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 27.2 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 30.5 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 30.4 | | 7.0 | 0 | 0 | | | | | | | |
| 18 | 305.5 | 29.0 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 29.2 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 27.6 | | | 0 | 0 | | | | | | | |
| 21 | 305.5 | 28.4 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 28.8 | | | 0 | 0 | | | | | | | |
| 23 | 305.5 | 28.8 | | | 0 | 0 | | | | | | | |
| 24 | 305.5 | 28.3 | | 7.3 | 0 | 0 | | | | | | | |
| 25 | 305.5 | 28.2 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 28.1 | | | 0 | 0 | | | | | | | |
| 27 | 305.5 | 27.8 | | | 0 | 0 | | | | | | | |
| 28 | 305.5 | 27.0 | | 6.9 | 0 | 0 | | | | | | | |
| 29 | 255.8 | 26.2 | | | 0 | 0 | | | | | | | |
| 30 | 248.4 | 27.2 | | | 0 | 0 | | | | | | | |
| 31 | | | | | 0 | 0 | | | | | | | |
| Average | 280.9 | 28.9 | 0 | | 0 | 0 | | | | | | | |
| Maximum | 318.3 | 31.2 | 0 | 7.3 | 0 | 0 | | | | | | | |
| Minimum | 240.7 | 26.1 | 0 | 6.9 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | November | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | | (828) 687-5210 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month November | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | 0.338 | | 0.22 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | 0.363 | <2.8 | <0.20 | 0.307 | 0.0091 | <0.001 | <0.001 | 883 | <0.005 | <0.005 | 1.3 | <0.005 | 0.0818 | 0.0055 | <0.005 | <0.010 | <0.010 |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | 0.363 | | <0.20 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | 0.363 | | 0.20 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.357 | 0.0 | 0.10 | 0.307 | 0.0091 | 0 | 0 | 883 | 0 | 0 | 1.3 | 0 | 0.0818 | 0.0055 | 0 | 0 | 0 |
| Maximum | 0.363 | <2.8 | 0.22 | 0.307 | 0.0091 | <0.001 | <0.001 | 883 | <0.005 | <0.005 | 1.3 | <0.005 | 0.0818 | 0.0055 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.338 | <2.8 | <0.20 | 0.307 | 0.0091 | <0.001 | <0.001 | 883 | <0.005 | <0.005 | 1.3 | <0.005 | 0.0818 | 0.0055 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 11/12/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 19.30 | 50.79 |
| Selenite [SE (IV)] | 18.7 | 49.21 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2009

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant | (3) Applied Speciation and Consulting

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 10.5 | Y | 3.01 | 7.4 | | | | | | | | | |
| 2 | 07:00 | 10.0 | Y | | | | | | | | | | | |
| 3 | 07:00 | 10.5 | Y | | | | | | | | | | | |
| 4 | 07:00 | 11.0 | Y | | | | | | | | | | | |
| 5 | | | N | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 8 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 9 | 07:30 | 10.5 | Y | 6.28 | 7.0 | 4.4 | <5.0 | | | | 0.0413 | 0.0397 | | |
| 10 | 07:30 | 9.5 | Y | | | | | | | | | | | |
| 11 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 12 | | | N | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | 07:30 | 9.5 | Y | | | | | | | | | | | |
| 15 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 16 | 07:30 | 9.5 | Y | 4.01 | 7.1 | | | | | | | | | |
| 17 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 18 | 06:00 | 7.5 | B | | | | | | | | | | | |
| 19 | | | N | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | 06:00 | 10.0 | Y | 4.01 | 7.1 | | | | | | | | | |
| 22 | 06:15 | 9.0 | B | | | | | | | | | | | |
| 23 | 05:30 | 9.0 | B | | | | | | | | | | | |
| 24 | Holiday | | N | | | | | | | | | | | |
| 25 | Holiday | | N | | | | | | | | | | | |
| 26 | | | N | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | 06:00 | 9.0 | B | | | | | | | | | | | |
| 29 | 07:00 | 10.5 | Y | 3.75 | 7.0 | | | | | | | | | |
| 30 | 08:30 | 9.5 | Y | | | | | | | | | | | |
| 31 | 08:00 | 9.5 | Y | | | | | | | | | | | |
| Average | | | | 4.21 | | 4.4 | 0 | | | | 0.0413 | 0.0397 | | |
| Maximum | | | | 6.28 | 7.4 | 4.4 | <5.0 | | | | 0.0413 | 0.0397 | | |
| Minimum | | | | 3.01 | 7.0 | 4.4 | <5.0 | | | | 0.0413 | 0.0397 | | |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month December | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | 0.0186 | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | 69.4 | | | | | | | | | 0.0118 | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | 0.0094 | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | 0.0069 | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | 0.0104 | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 69.4 | | | | | | | | | 0.0114 | | |
| Maximum | | | 69.4 | | | | | | | | | 0.0186 | | |
| Minimum | | | 69.4 | | | | | | | \ | | 0.0069 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | | |
| Monthly Limit | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

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Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month December | Year 2009
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 202.7 | 30.7 | | 7.4 | 0 | 0 | | | | | | | |
| 2 | 167.9 | 27.0 | | | 0 | 0 | | | | | | | |
| 3 | 106.3 | 28.6 | | | 0 | 0 | | | | | | | |
| 4 | 183.6 | 26.5 | | | 0 | 0 | | | | | | | |
| 5 | 183.6 | 29.5 | | | 0 | 0 | | | | | | | |
| 6 | 183.6 | 31.7 | | | 0 | 0 | | | | | | | |
| 7 | 183.6 | 32.4 | | | 0 | 0 | | | | | | | |
| 8 | 183.6 | 31.7 | | | 0 | 0 | | | | | | | |
| 9 | 201.5 | 28.6 | | 8.0 | 0 | 0 | | | | | | | |
| 10 | 183.6 | 30.4 | | | 0 | 0 | | | | | | | |
| 11 | 184.3 | 33.0 | | | 0 | 0 | | | | | | | |
| 12 | 183.6 | 31.8 | | | 0 | 0 | | | | | | | |
| 13 | 185.1 | 28.2 | | | 0 | 0 | | | | | | | |
| 14 | 183.6 | 29.3 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 30.7 | | | 0 | 0 | | | | | | | |
| 16 | 183.6 | 32.0 | | 6.9 | 0 | 0 | | | | | | | |
| 17 | 183.6 | 33.4 | | | 0 | 0 | | | | | | | |
| 18 | 183.6 | 32.0 | | | 0 | 0 | | | | | | | |
| 19 | 183.6 | 29.8 | | | 0 | 0 | | | | | | | |
| 20 | 183.6 | 32.4 | | | 0 | 0 | | | | | | | |
| 21 | 183.6 | 31.8 | | 7.6 | 0 | 0 | | | | | | | |
| 22 | 183.6 | 31.1 | | | 0 | 0 | | | | | | | |
| 23 | 183.6 | 30.4 | | | 0 | 0 | | | | | | | |
| 24 | 183.6 | 28.2 | | | 0 | 0 | | | | | | | |
| 25 | 183.6 | 23.5 | | | 0 | 0 | | | | | | | |
| 26 | 183.6 | 24.8 | | | 0 | 0 | | | | | | | |
| 27 | 183.6 | 26.5 | | | 0 | 0 | | | | | | | |
| 28 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | |
| 29 | 183.6 | 31.5 | | 7.5 | 0 | 0 | | | | | | | |
| 30 | 183.8 | 32.2 | | | 0 | 0 | | | | | | | |
| 31 | 183.6 | 28.6 | | | 0 | 0 | | | | | | | |
| Average | 181.9 | 29.9 | 0 | | 0 | 0 | | | | | | | |
| Maximum | 202.7 | 33.4 | 0 | 8.0 | 0 | 0 | | | | | | | |
| Minimum | 106.3 | 23.5 | 0 | 6.9 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | December | **Year** | 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | | (828) 687-5210 |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | December | **Year** 2009 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.338 | | <0.20 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 0.445 | <8.3 | <0.20 | 0.250 | 0.0107 | <0.001 | <0.001 | 844 | <0.005 | <0.005 | 1.4 | <0.005 | 0.1030 | 0.0058 | <0.005 | <0.010 | <0.010 |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | 0.338 | | <0.20 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | 0.363 | | <0.20 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
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| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | 0.363 | | <0.20 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.369 | 0.0 | 0.00 | 0.250 | 0.0107 | 0 | 0 | 844 | 0 | 0 | 1.4 | 0 | 0.1030 | 0.0058 | 0 | 0 | 0 |
| **Maximum** | 0.445 | <8.3 | <0.20 | 0.250 | 0.0107 | <0.001 | <0.001 | 844 | <0.005 | <0.005 | 1.4 | <0.005 | 0.1030 | 0.0058 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.338 | <8.3 | <0.20 | 0.250 | 0.0107 | <0.001 | <0.001 | 844 | <0.005 | <0.005 | 1.4 | <0.005 | 0.1030 | 0.0058 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 12/9/2009

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 15.50 | 51.16 |
| Selenite [Se (IV)] | 14.8 | 48.84 |

| | 6/16/2009 0:00<br>6/16/2009 1:00 | 6/16/2009 1:00<br>6/16/2009 2:00 | 6/16/2009 2:00<br>6/16/2009 3:00 | 6/16/2009 3:00<br>6/16/2009 4:00 | 6/16/2009 4:00<br>6/16/2009 5:00 | 6/16/2009 5:00<br>6/16/2009 6:00 | 6/16/2009 6:00<br>6/16/2009 7:00 | 6/16/2009 7:00<br>6/16/2009 8:00 | 6/16/2009 8:00<br>6/16/2009 9:00 | 6/16/2009 9:00<br>6/16/2009 10:00 | 6/16/2009 10:00<br>6/16/2009 11:00 | 6/16/2009 11:00<br>6/16/2009 12:00 | 6/16/2009 12:00<br>6/16/2009 13:00 | 6/16/2009 13:00<br>6/16/2009 14:00 | 6/16/2009 14:00<br>6/16/2009 15:00 | 6/16/2009 15:00<br>6/16/2009 16:00 | 6/16/2009 16:00<br>6/16/2009 17:00 | 6/16/2009 17:00<br>6/16/2009 18:00 | 6/16/2009 18:00<br>6/16/2009 19:00 | 6/16/2009 19:00<br>6/16/2009 20:00 | 6/16/2009 20:00<br>6/16/2009 21:00 | 6/16/2009 21:00<br>6/16/2009 22:00 | 6/16/2009 22:00<br>6/16/2009 23:00 | ##########<br>6/17/2009 0:00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASH01_TE1CIRCA4.PV | 105.7752042 | 106.2316992 | 101.655029 | 97.6122803 | 97.56833618 | 99.85868862 | 105.2152635 | 108.5427937 | 107.3283755 | 107.4153819 | 108.4470719 | 109.1986038 | 109.5641157 | 111.8339947 | 112.7366375 | 112.8315566 | 112.8807198 | 112.6025206 | 112.0412383 | 111.3929177 | 110.5712241 | 108.9274394 | 105.1417048 | 103.7400859 |
| ASH01_TE1CIRCA5.PV | 105.5264281 | 106.136003 | 99.12083242 | 95.27968673 | 95.29110583 | 97.22059143 | 104.5061362 | 108.6069911 | 107.5538296 | 107.5585301 | 108.7282194 | 109.2091389 | 109.702507 | 111.87111 | 112.7437754 | 112.8779348 | 112.8007631 | 112.6601899 | 111.9131379 | 111.3396572 | 110.614397 | 108.8931589 | 104.0291322 | 101.396501 |
| ASH01_TE1CIRCA6.PV | 104.9689524 | 105.3751638 | 99.12818241 | 95.58437471 | 95.77574882 | 97.43367916 | 103.8703868 | 107.7079427 | 106.8638793 | 106.7534397 | 107.8129903 | 108.4489337 | 108.9712726 | 110.945806 | 111.774446 | 112.1776194 | 112.3142025 | 111.9678307 | 111.299154 | 110.5324394 | 109.783672 | 108.4017232 | 103.5270602 | 101.0788938 |
| ASH01_TE1CIRCA7.PV | 108.3810961 | 108.4639567 | 104.9783228 | 102.2220033 | 102.3577392 | 104.3823562 | 107.7577909 | 110.7628419 | 109.6040356 | 109.6154725 | 110.6404307 | 111.3476152 | 111.9230595 | 114.0069352 | 115.049484 | 115.3412485 | 115.3194566 | 114.9140804 | 114.3006084 | 113.6638969 | 112.9092257 | 111.2773346 | 107.7073484 | 106.8927972 |
| ASH01_TE1CIRCB4.PV | 106.4680987 | 106.5812823 | 102.8296159 | 98.14040868 | 98.07968152 | 101.1303936 | 105.6846347 | 108.7284014 | 107.7035555 | 107.5641186 | 108.7229741 | 109.4784373 | 109.9171552 | 111.8318313 | 112.7370676 | 113.2088239 | 113.3018167 | 112.7633676 | 112.1408947 | 111.5319521 | 110.7027829 | 109.2725781 | 105.9250788 | 104.7823844 |
| ASH01_TE1CIRCB5.PV | 106.7777811 | 106.9042462 | 103.9006524 | 100.9905172 | 101.0721912 | 103.1272213 | 106.179352 | 109.0523039 | 108.0598994 | 108.0247763 | 109.0937678 | 109.8432792 | 110.1812061 | 112.2766708 | 113.1588675 | 113.5875836 | 113.4652437 | 113.0500196 | 112.430431 | 111.7813706 | 111.0996767 | 109.643948 | 106.0571606 | 105.5900911 |
| ASH01_TE1CIRCB6.PV | 105.3388971 | 105.4574321 | 98.71862191 | 94.74400407 | 94.76982317 | 96.40263673 | 103.953617 | 107.4522597 | 106.4731427 | 106.575645 | 107.4871667 | 108.2189801 | 108.5481826 | 110.5314052 | 111.4144532 | 111.7439612 | 111.5777035 | 111.3107486 | 110.8504414 | 110.0800991 | 109.2685934 | 107.9054949 | 104.4958432 | 102.0043567 |
| ASH01_TE1CIRCB7.PV | 106.1155601 | 106.3222668 | 103.2594699 | 100.7363027 | 101.1142908 | 102.8823262 | 105.6580819 | 108.387675 | 107.3384899 | 107.4378443 | 108.4146105 | 108.9360246 | 109.5344271 | 111.7545017 | 112.4120435 | 112.8405688 | 112.90796 | 112.3944486 | 111.7390751 | 111.1420651 | 110.5260926 | 108.9143209 | 105.6791849 | 105.2292793 |
| ASH02_TE2CIRCD1.PV | 102.0289281 | 98.0088636 | 96.9207485 | 97.00692606 | 96.94689203 | 96.98363232 | 96.9465002 | 96.99924056 | 96.97996904 | 96.75767579 | 97.31096107 | 100.3450397 | 102.7044397 | 106.4765932 | 108.028681 | 108.5211955 | 108.6957303 | 108.6959408 | 108.123165 | 106.523686 | 104.8954995 | 104.502857 | 102.4772425 | 100.9412397 |
| ASH02_TE2CIRCD2.PV | 100.9055714 | 99.69188756 | 99.32243641 | 99.22719574 | 99.1683701 | 99.05913328 | 98.89056049 | 98.72189107 | 98.59563087 | 98.91106966 | 99.46337965 | 100.7038877 | 101.8246212 | 104.9975774 | 106.4769627 | 106.8016556 | 107.106043 | 107.2046661 | 106.4747702 | 105.2106779 | 103.5713862 | 103.0977841 | 101.4367649 | 100.5345992 |
| ASH02_TE2CIRCD3.PV | 100.4068904 | 98.47938426 | 97.20695574 | 96.92684869 | 97.24417582 | 97.0782488 | 97.02326543 | 96.82683784 | 96.74058112 | 96.82711237 | 97.69099892 | 99.69565421 | 101.2104489 | 104.6262931 | 106.1407467 | 106.4886832 | 106.4997997 | 106.6554498 | 106.1827406 | 104.8587085 | 103.2686344 | 102.8142864 | 100.8810432 | 100.0044767 |
| ASH02_TE2CIRCD4.PV | 100.0505882 | 96.8010868 | 95.43778627 | 95.51123896 | 95.6018202 | 95.46971825 | 95.30361869 | 95.24078864 | 95.17196549 | 95.15501453 | 95.87796962 | 98.36425725 | 100.9693223 | 105.1560503 | 106.657295 | 106.8477212 | 107.0759977 | 107.3239818 | 106.874139 | 105.2545718 | 103.4964473 | 103.2872505 | 100.7521328 | 99.3107889 |
| ASH02_TE2CIRCD5.PV | 100.9447241 | 98.13060265 | 96.67495715 | 96.693455 | 96.65872829 | 96.59083959 | 96.52678237 | 96.31627153 | 96.45406755 | 96.51955432 | 97.30284651 | 99.69408847 | 101.5980223 | 105.4359094 | 106.9999792 | 107.3958182 | 107.6564322 | 107.59695 | 107.178952 | 105.9338508 | 104.2551145 | 103.5797825 | 101.2090424 | 100.2146434 |
| ASH02_TE2CIRCD6.PV | 102.2331723 | 100.1992187 | 99.11843468 | 98.94434421 | 98.82327541 | 98.7458894 | 98.67603752 | 98.64943377 | 98.7047976 | 98.78036508 | 99.55211383 | 101.3960311 | 102.6286839 | 106.0292887 | 107.74364 | 108.0650487 | 108.1693122 | 108.3536027 | 107.9264654 | 106.4903285 | 104.7942075 | 104.3232187 | 102.4035602 | 101.5525277 |
| ASH02_TE2CIRCD7.PV | 102.3858935 | 99.51917014 | 98.39031902 | 98.32478639 | 98.33628165 | 98.34413296 | 98.34331707 | 98.34212999 | 98.34094291 | 98.21395996 | 98.92914801 | 101.4332287 | 103.0667672 | 106.5529879 | 108.1916994 | 108.6120401 | 108.7676986 | 108.7683707 | 108.3301431 | 106.9150213 | 105.2311242 | 104.6240667 | 102.7116598 | 101.7311457 |
| ASH02_TE2CIRCD8.PV | 101.1109243 | 97.63632973 | 96.40391755 | 96.57368853 | 96.52235929 | 96.58719741 | 96.35204111 | 96.10749432 | 96.18909141 | 96.23202792 | 97.0439978 | 100.153985 | 102.0301699 | 105.9248204 | 107.3047372 | 107.6914477 | 107.9486301 | 107.883061 | 107.5543087 | 105.9308609 | 104.2573653 | 103.846365 | 101.5925376 | 100.4851149 |
| Hourly Avg. | **103.7** | **102.5** | **99.6** | **97.8** | **97.8** | **98.8** | **101.3** | **102.9** | **102.4** | **102.4** | **103.3** | **104.8** | **105.9** | **108.8** | **110.0** | **110.3** | **110.4** | **110.3** | **109.7** | **108.7** | **107.5** | **106.5** | **103.5** | **102.2** |
| | **39.8** | **39.2** | **37.5** | **36.5** | **36.6** | **37.1** | **38.5** | **39.4** | **39.1** | **39.1** | **39.6** | **40.4** | **41.1** | **42.6** | **43.3** | **43.5** | **43.6** | **43.5** | **43.2** | **42.6** | **41.9** | **41.4** | **39.7** | **39.0** |

DAILY AVERAGE+
104.6203346 Deg F
**40.3 Deg C**

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 001 **Month** January **Year** 2010
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Crystal R. Diedrich **Grade** P/C I **Phone** (828) 687-5210
**Certified Laboratories:** (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting (4) Environmental Testing Solutions
**Check If ORC has Changed** **Person (s) Collecting Samples:** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock | Operator Time On Site | * ORC On Site | 50050 Flow Effluent Daily Rate | 00400 pH | 00530 Total Suspended Residue | 00556 Oil & Grease | 00600 Total Nitrogen | 00665 Total Phosphorous | 01042 Total Copper | 1002 Total Arsenic | 1147 Total Selenium | THP3B Chronic Toxicity | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hrs | Hrs | Y/B/N | MGD | Units | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | % Eff | |
| 1 | Holiday | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | 07:30 | 9.3 | Y | | | | | | | | | | | |
| 5 | 07:30 | 9.5 | Y | | | | | | | | | | | |
| 6 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 7 | 07:30 | 9.5 | Y | 3.50 | 7.6 | | | | | | | | | |
| 8 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | 13:00 | 5.5 | Y | | | | | | | | | | | |
| 12 | 07:30 | 10.0 | Y | | 7.5 | | | | | | | | >7.6 | |
| 13 | 07:30 | 10.0 | Y | 4.01 | | <8.3 | <5.0 | 11.0 | <0.10 | <0.005 | 0.0895 | 0.0778 | | |
| 14 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 15 | 10:30 | 5.0 | Y | | 7.5 | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 19 | 07:30 | 9.0 | Y | 3.25 | 7.3 | | | | | | | | | |
| 20 | 07:30 | 6.5 | Y | | | | | | | | | | | |
| 21 | 07:30 | 5.0 | Y | | | | | | | | | | | |
| 22 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 26 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 27 | 07:30 | 9.5 | Y | 3.75 | 7.3 | | | | | | | | | |
| 28 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 29 | 07:30 | 8.0 | Y | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | | | N | | | | | | | | | | | |
| **Average** | | | | 3.63 | | 0.0 | 0 | 11.0 | 0 | 0 | 0.0895 | 0.0778 | >7.6 | |
| **Maximum** | | | | 4.01 | 7.6 | <8.3 | <5.0 | 11.0 | <0.10 | <0.005 | 0.0895 | 0.0778 | >7.6 | |
| **Minimum** | | | | 3.25 | 7.3 | <8.3 | <5.0 | 11.0 | <0.10 | <0.005 | 0.0895 | 0.0778 | >7.6 | |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G | |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive** **Arden, N.C.** **28704** | **(828) 684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | January | **Year** | 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | | (828) 687-5210 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | 0.0084 | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | <0.001 | <0.001 | 135 | 0.0052 | 1.00 | <0.005 | 0.176 | 0.0123 | <0.005 | <0.010 | 0.0132 | 0.0085 | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | 0.0143 | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | 0.0079 | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | 0 | 0 | 135 | 0.0052 | 1.00 | 0 | 0.176 | 0.0123 | 0 | 0 | 0.0132 | 0.0098 | | |
| **Maximum** | <0.001 | <0.001 | 135 | 0.0052 | 1.00 | <0.005 | 0.176 | 0.0123 | <0.005 | <0.010 | 0.0132 | 0.0143 | | |
| **Minimum** | <0.001 | <0.001 | 135 | 0.0052 | 1.00 | <0.005 | 0.176 | 0.0123 | <0.005 | <0.010 | 0.0132 | 0.0079 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month January | Year 2010
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 26.1 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 31.1 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 30.4 | | | 0 | 0 | | | | | | | |
| 4 | 184.5 | 29.7 | | | 0 | 0 | | | | | | | |
| 5 | 183.6 | 29.5 | | | 0 | 0 | | | | | | | |
| 6 | 183.6 | 28.9 | | | 0 | 0 | | | | | | | |
| 7 | 183.6 | 28.5 | | 6.9 | 0 | 0 | | | | | | | |
| 8 | 183.6 | 27.6 | | | 0 | 0 | | | | | | | |
| 9 | 183.6 | 28.4 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 28.2 | | | 0 | 0 | | | | | | | |
| 11 | 183.6 | 28.4 | | | 0 | 0 | | | | | | | |
| 12 | 183.6 | 26.7 | | 6.6 | 0 | 0 | | | | | | | |
| 13 | 183.6 | 28.2 | | | 0 | 0 | | | | | | | |
| 14 | 183.6 | 27.4 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 25.5 | | | 0 | 0 | | | | | | | |
| 16 | 183.6 | 26.2 | | | 0 | 0 | | | | | | | |
| 17 | 183.6 | 22.2 | | | 0 | 0 | | | | | | | |
| 18 | 185.0 | 22.7 | | | 0 | 0 | | | | | | | |
| 19 | 183.6 | 24.4 | | 6.7 | 0 | 0 | | | | | | | |
| 20 | 183.6 | 24.2 | | | 0 | 0 | | | | | | | |
| 21 | 183.6 | 27.9 | | | 0 | 0 | | | | | | | |
| 22 | 183.6 | 27.4 | | | 0 | 0 | | | | | | | |
| 23 | 183.6 | 24.6 | | | 0 | 0 | | | | | | | |
| 24 | 183.6 | 24.0 | | | 0 | 0 | | | | | | | |
| 25 | 183.6 | 23.4 | | | 0 | 0 | | | | | | | |
| 26 | 183.6 | 28.7 | | | 0 | 0 | | | | | | | |
| 27 | 183.6 | 29.3 | | 7.8 | 0 | 0 | | | | | | | |
| 28 | 183.6 | 28.4 | | | 0 | 0 | | | | | | | |
| 29 | 156.1 | 22.8 | | | 0 | 0 | | | | | | | |
| 30 | 106.5 | 26.8 | | | 0 | 0 | | | | | | | |
| 31 | 184.1 | 23.7 | | | 0 | 0 | | | | | | | |
| Average | 180.3 | 26.8 | 0 | | 0 | 0 | | | | | | | |
| Maximum | 185.0 | 31.1 | 0 | 7.8 | 0 | 0 | | | | | | | |
| Minimum | 106.5 | 22.2 | 0 | 6.6 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | January | **Year** | 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** January **Year** 2010
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Crystal R. Diedrich **Grade** P/C I **Phone** (828) 687-5210
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | 0.363 | | <0.20 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | 0.350 | <8.3 | <0.20 | 0.214 | 0.017 | <0.001 | <0.001 | 1820 | <0.005 | <0.005 | 2.1 | <0.005 | 0.516 | <0.005 | <0.005 | <0.010 | <0.010 |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | 0.363 | | <0.20 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | 0.350 | | <0.20 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.356 | 0.0 | 0.00 | 0.214 | 0.017 | 0 | 0 | 1820 | 0 | 0 | 2.1 | 0 | 0.516 | 0 | 0 | 0 | 0 |
| Maximum | 0.363 | <8.3 | <0.20 | 0.214 | 0.017 | <0.001 | <0.001 | 1820 | <0.005 | <0.005 | 2.1 | <0.005 | 0.516 | <0.005 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.350 | <8.3 | <0.20 | 0.214 | 0.017 | <0.001 | <0.001 | 1820 | <0.005 | <0.005 | 2.1 | <0.005 | 0.516 | <0.005 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 1/13/2010

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 13.90 | 17.01 |
| Selenite [Se (IV)] | 67.8 | 82.99 |

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month February | Year 2010

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4)

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00625 Total Kjeldahl-N mg/L | 00630 Nitrite+ Nitrate-N mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 05:00 | 10.5 | B | | | | | | | | | | | |
| 2 | 07:30 | 9.5 | Y | | | | | | | | | | | |
| 3 | 07:30 | 10.5 | Y | 4.01 | 6.9 | | | | | | | | | |
| 4 | 07:30 | 8.8 | Y | | | | | | | | | | | |
| 5 | 06:00 | 10.5 | Y | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 07:00 | 8.5 | Y | | | | | | | | | | | |
| 9 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 10 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 11 | 09:30 | 7.5 | Y | 4.28 | 7.3 | 15.4 | <5.0 | | | | | | 0.0543 | 0.0530 |
| 12 | 09:30 | 6.5 | Y | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 09:30 | 6.5 | Y | | | | | | | | | | | |
| 16 | 07:30 | 9.5 | Y | | | | | | | | | | | |
| 17 | 07:30 | 9.5 | Y | 4.28 | 7.2 | | | | | | | | | |
| 18 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 19 | 07:30 | 6.5 | Y | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 07:30 | 8.0 | Y | | | | | | | | | | | |
| 23 | 07:00 | 9.5 | Y | 3.25 | 7.3 | | | | | | | | | |
| 24 | 07:00 | 10.0 | Y | | | | | | | | | | | |
| 25 | 07:00 | 9.5 | Y | | | | | | | | | | | |
| 26 | 07:00 | 7.5 | Y | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | 3.96 | | 15.4 | 0 | | | | | | 0.0543 | 0.0530 |
| Maximum | | | | 4.28 | 7.3 | 15.4 | <5.0 | | | | | | 0.0543 | 0.0530 |
| Minimum | | | | 3.25 | 6.9 | 15.4 | <5.0 | | | | | | 0.0543 | 0.0530 |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | February | **Year** | 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | | (828) 687-5210 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | 0.0086 | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | 97.2 | | | | | | | | | 0.0092 | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | 0.0088 | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | 0.0120 | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | 97.2 | | | | | | | | | 0.0097 | | |
| **Maximum** | | | 97.2 | | | | | | | | | 0.0120 | | |
| **Minimum** | | | 97.2 | | | | | | | | | 0.0086 | | |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month February | Year 2010
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 25.9 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 26.9 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 26.9 | | 8.0 | 0 | 0 | | | | | | | |
| 4 | 183.6 | 29.9 | | | 0 | 0 | | | | | | | |
| 5 | 183.6 | 29.2 | | | 0 | 0 | | | | | | | |
| 6 | 183.6 | 27.3 | | | 0 | 0 | | | | | | | |
| 7 | 183.6 | 28.2 | | | 0 | 0 | | | | | | | |
| 8 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | |
| 9 | 183.6 | 29.6 | | | 0 | 0 | | | | | | | |
| 10 | 183.6 | 28.8 | | | 0 | 0 | | | | | | | |
| 11 | 183.6 | 28.5 | | 8.3 | 0 | 0 | | | | | | | |
| 12 | 183.6 | 27.7 | | | 0 | 0 | | | | | | | |
| 13 | 183.6 | 25.2 | | | 0 | 0 | | | | | | | |
| 14 | 183.6 | 26.0 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 27.5 | | | 0 | 0 | | | | | | | |
| 16 | 183.6 | 27.7 | | | 0 | 0 | | | | | | | |
| 17 | 183.6 | 29.1 | | 7.8 | 0 | 0 | | | | | | | |
| 18 | 183.6 | 26.7 | | | 0 | 0 | | | | | | | |
| 19 | 183.6 | 27.1 | | | 0 | 0 | | | | | | | |
| 20 | 183.6 | 25.9 | | | 0 | 0 | | | | | | | |
| 21 | 183.6 | 24.9 | | | 0 | 0 | | | | | | | |
| 22 | 183.6 | 26.1 | | | 0 | 0 | | | | | | | |
| 23 | 183.6 | 25.3 | | 6.7 | 0 | 0 | | | | | | | |
| 24 | 183.6 | 26.8 | | | 0 | 0 | | | | | | | |
| 25 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | |
| 26 | 183.6 | 29.1 | | | 0 | 0 | | | | | | | |
| 27 | 183.6 | 28.3 | | | 0 | 0 | | | | | | | |
| 28 | 183.6 | 27.8 | | | 0 | 0 | | | | | | | |
| 29 | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 183.6 | 27.5 | 0 | | 0 | 0 | | | | | | | |
| Maximum | 183.6 | 29.9 | 0 | 8.3 | 0 | 0 | | | | | | | |
| Minimum | 183.6 | 24.9 | 0 | 6.7 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 004 | Month February | Year 2010
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories: (1) | (2)
Check If ORC has Changed | Person (s) Collecting Samples N/A

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | February | **Year** 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | 0.445 | | <0.20 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | 0.363 | <5.6 | <0.20 | 0.326 | 0.0139 | <0.001 | <0.001 | 1410 | <0.005 | <0.005 | 1.7 | <0.005 | 0.0927 | 0.0162 | <0.005 | <0.010 | <0.010 |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | 0.338 | | <0.20 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | 0.350 | | <0.20 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.374 | 0.0 | 0.00 | 0.326 | 0.0139 | 0 | 0 | 1410 | 0 | 0 | 1.7 | 0 | 0.0927 | 0.0162 | 0 | 0 | 0 |
| **Maximum** | 0.445 | <5.6 | <0.20 | 0.326 | 0.0139 | <0.001 | <0.001 | 1410 | <0.005 | <0.005 | 1.7 | <0.005 | 0.0927 | 0.0162 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.338 | <5.6 | <0.20 | 0.326 | 0.0139 | <0.001 | <0.001 | 1410 | <0.005 | <0.005 | 1.7 | <0.005 | 0.0927 | 0.0162 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

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The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 2/11/2010

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 19.00 | 37.04 |
| Selenite [Se (IV)] | 32.3 | 62.96 |

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month March | Year 2010

Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe

Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210

Certified Laboratories: (1) PACE Labs | (2) Asheville Steam Electric Plant

(3) Applied Speciation and Consulting | (4)

Check If ORC has Changed | Person (s) Collecting Samples: Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock | Operator Time On Site | * ORC On Site | 50050 Flow Effluent Daily Rate | 00400 pH | 00530 Total Suspended Residue | 00556 Oil & Grease | 00600 Total Nitrogen | 00625 Total Kjeldahl-N | 00630 Nitrite+ Nitrate-N | 00665 Total Phosphorous | 01042 Total Copper | 1002 Total Arsenic | 1147 Total Selenium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hrs | Hrs | Y/B/N | MGD | Units | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 1 | 05:00 | 9.0 | B | | | | | | | | | | | |
| 2 | 06:00 | 10.0 | Y | | | | | | | | | | | |
| 3 | 06:00 | 10.5 | Y | 4.28 | 7.1 | | | | | | | | | |
| 4 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 5 | 07:00 | 9.5 | Y | | | | | | | | | | | |
| 6 | | | N | | | | | | | | | | | |
| 7 | | | N | | | | | | | | | | | |
| 8 | 07:10 | 11.0 | Y | | | | | | | | | | | |
| 9 | 07:30 | 9.0 | Y | 3.75 | 7.0 | | | | | | | | | |
| 10 | 06:10 | 10.0 | Y | | | | | | | | | | | |
| 11 | 07:00 | 11.5 | Y | | | | | | | | | | | |
| 12 | 07:30 | 4.0 | Y | | | | | | | | | | | |
| 13 | | | N | | | | | | | | | | | |
| 14 | | | N | | | | | | | | | | | |
| 15 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 16 | 07:30 | 8.7 | Y | 3.75 | 7.6 | 4.6 | <5.0 | | | | | | 0.1000 | 0.0816 |
| 17 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 18 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 19 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 20 | | | N | | | | | | | | | | | |
| 21 | | | N | | | | | | | | | | | |
| 22 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 23 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 24 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 25 | 07:30 | 9.0 | Y | 3.50 | 7.0 | | | | | | | | | |
| 26 | 14:00 | 4.0 | Y | | | | | | | | | | | |
| 27 | | | N | | | | | | | | | | | |
| 28 | | | N | | | | | | | | | | | |
| 29 | 05:00 | 10.0 | B | | | | | | | | | | | |
| 30 | 05:45 | 9.3 | B | | | | | | | | | | | |
| 31 | 06:00 | 10.0 | B | 4.28 | 7.1 | | | | | | | | | |
| Average | | | | 3.91 | | 4.6 | 0 | | | | | | 0.1000 | 0.0816 |
| Maximum | | | | 4.28 | 7.6 | 4.6 | <5.0 | | | | | | 0.1000 | 0.0816 |
| Minimum | | | | 3.50 | 7.0 | 4.6 | <5.0 | | | | | | 0.1000 | 0.0816 |
| Comp. (C)/Grab (G) | | | | | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — xxxx

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704 | (828) 684-4286 | December 31, 2010
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | March | **Year** | 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | | **Phone** | (828) 687-5210 |
| **Certified Laboratories:** | (1) PACE Labs | | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | THP3B Chronic Toxicity % Eff | Total Res Chlorine µg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | 0.0072 | | 40 |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | 0.0100 | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | 185 | | | | | | | | | 0.0099 | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | 0.0076 | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | 0.0078 | | |
| **Average** | | | 185 | | | | | | | | | 0.0085 | | 40 |
| **Maximum** | | | 185 | | | | | | | | | 0.0100 | | 40 |
| **Minimum** | | | 185 | | | | | | | | | 0.0072 | | 40 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | 0.63 | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month March | Year 2010
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant | (2) Pace Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below: O &G1 mg/l | O&G2 mg/l | BOD mg/l | COD mg/l | TOC mg/l | NH3-N mg/l | TSS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.6 | 26.7 | | | 0 | 0 | | | | | | | |
| 2 | 183.6 | 28.8 | | | 0 | 0 | | | | | | | |
| 3 | 183.6 | 30.2 | | 8.1 | 0 | 0 | | | | | | | |
| 4 | 183.6 | 29.2 | | | 0 | 0 | | | | | | | |
| 5 | 183.6 | 30.2 | | | 0 | 0 | | | | | | | |
| 6 | 183.6 | 28.8 | | | 0 | 0 | | | | | | | |
| 7 | 183.6 | 28.1 | | | 0 | 0 | | | | | | | |
| 8 | 183.6 | 29.3 | 20 | 6.9 | 0 | 0 | <5.0 | <5.0 | <2.0 | <25.0 | 3.8 | 0.14 | <2.4 |
| 9 | 183.6 | 28.2 | | 7.3 | 0 | 0 | | | | | | | |
| 10 | 183.6 | 27.8 | | | 0 | 0 | | | | | | | |
| 11 | 183.6 | 29.2 | | | 0 | 0 | | | | | | | |
| 12 | 183.6 | 29.4 | | | 0 | 0 | | | | | | | |
| 13 | 183.6 | 29.6 | | | 0 | 0 | | | | | | | |
| 14 | 176.0 | 30.5 | | | 0 | 0 | | | | | | | |
| 15 | 183.6 | 32.3 | | | 0 | 0 | | | | | | | |
| 16 | 183.6 | 31.4 | | 6.8 | 0 | 0 | | | | | | | |
| 17 | 183.6 | 31.1 | | | 0 | 0 | | | | | | | |
| 18 | 183.6 | 29.9 | | | 0 | 0 | | | | | | | |
| 19 | 176.7 | 24.7 | | | 0 | 0 | | | | | | | |
| 20 | 90.7 | 31.2 | | | 0 | 0 | | | | | | | |
| 21 | 172.3 | 24.6 | | | 0 | 0 | | | | | | | |
| 22 | 217.2 | 27.2 | | | 0 | 0 | | | | | | | |
| 23 | 240.7 | 29.4 | | | 0 | 0 | | | | | | | |
| 24 | 240.7 | 28.2 | | | 0 | 0 | | | | | | | |
| 25 | 240.7 | 26.5 | | 6.6 | 0 | 0 | | | | | | | |
| 26 | 240.8 | 27.7 | | | 0 | 0 | | | | | | | |
| 27 | 240.7 | 28.7 | | | 0 | 0 | | | | | | | |
| 28 | 240.7 | 27.8 | | | 0 | 0 | | | | | | | |
| 29 | 240.7 | 30.1 | | | 0 | 0 | | | | | | | |
| 30 | 240.7 | 30.2 | | | 0 | 0 | | | | | | | |
| 31 | 240.7 | 29.9 | | 7.2 | 0 | 0 | | | | | | | |
| Average | 197.4 | 28.9 | 20 | | 0 | 0 | | | | | | | |
| Maximum | 240.8 | 32.3 | 20 | 8.1 | 0 | 0 | | | | | | | |
| Minimum | 90.7 | 24.6 | 20 | 6.6 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286 December 31, 2010
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | March | **Year** | 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | |
|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 005 | **Month** | March | **Year** 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) PACE Labs | | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | Lab Staff | | | |

**Mail ORIGINAL and ONE COPY to:**
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**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | 0.376 | | <0.20 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 0.376 | | <0.20 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | 0.350 | <5.1 | <0.20 | 0.5640 | <0.005 | <0.001 | <0.001 | 2110 | <0.005 | <0.005 | 2.0 | <0.005 | 0.200 | 0.0125 | <0.005 | <0.010 | <0.010 |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | 0.288 | | <0.20 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | 0.288 | | <0.20 | | | | | | | | | | | | | | |
| **Average** | 0.336 | 0 | 0 | 0.5640 | 0 | 0 | 0 | 2110 | 0 | 0 | 2.0 | 0 | 0.200 | 0.0125 | 0 | 0 | 0 |
| **Maximum** | 0.376 | <5.1 | <0.20 | 0.5640 | <0.005 | <0.001 | <0.001 | 2110 | <0.005 | <0.005 | 2.0 | <0.005 | 0.200 | 0.0125 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.288 | <5.1 | <0.20 | 0.5640 | <0.005 | <0.001 | <0.001 | 2110 | <0.005 | <0.005 | 2.0 | <0.005 | 0.200 | 0.0125 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

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**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** — **Date**

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Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
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# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 3/16/2010

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 47.40 | 62.37 |
| Selenite [Se (IV)] | 28.6 | 37.63 |

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | April | **Year** | 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | | **County** | Buncombe | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) PACE Labs | | (2) Asheville Steam Electric Plant | | | | |
| | (3) Applied Speciation and Consulting | | (4) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples:** | Lab Staff | | | | |

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00625 Total Kjeldahl-N mg/L | 00630 Nitrite+ Nitrate-N mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 06:00 | 9.0 | B | | | | | | | | | | | |
| 2 | Holiday | | N | | | | | | | | | | | |
| 3 | | | N | | | | | | | | | | | |
| 4 | | | N | | | | | | | | | | | |
| 5 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 6 | 07:30 | 9.5 | Y | 4.82 | 7.8 | | | | | | | | | |
| 7 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 8 | 07:20 | 10.0 | Y | | | | | | | | | | | |
| 9 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 10 | | | N | | | | | | | | | | | |
| 11 | | | N | | | | | | | | | | | |
| 12 | 07:30 | 9.5 | Y | | | | | | | | | | | |
| 13 | 07:30 | 8.5 | Y | 4.55 | 7.5 | 5.0 | <5.0 | 10.5 | 9.0 | 1.6 | <0.10 | 0.0097 | 0.1530 | 0.0402 |
| 14 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 15 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 16 | 07:30 | 9.0 | Y | | 7.0 | | | | | | | | | |
| 17 | | | N | | | | | | | | | | | |
| 18 | | | N | | | | | | | | | | | |
| 19 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 20 | 07:30 | 10.0 | Y | 5.10 | 7.5 | | | | | | | | | |
| 21 | 07:30 | 4.0 | Y | | | | | | | | | | | |
| 22 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 23 | 07:00 | 9.3 | B | | | | | | | | | | | |
| 24 | | | N | | | | | | | | | | | |
| 25 | | | N | | | | | | | | | | | |
| 26 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 27 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 28 | 10:30 | 7.5 | Y | 3.01 | 6.4 | | | | | | | | | |
| 29 | 06:00 | 10.0 | B | | | | | | | | | | | |
| 30 | 07:30 | 11.5 | Y | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | 4.37 | | 5.0 | 0 | 10.5 | 9.0 | 1.6 | 0 | 0.0097 | 0.1530 | 0.0402 |
| **Maximum** | | | | 5.10 | 7.8 | 5.0 | <5.0 | 10.5 | 9.0 | 1.6 | <0.10 | 0.0097 | 0.1530 | 0.0402 |
| **Minimum** | | | | 3.01 | 6.4 | 5.0 | <5.0 | 10.5 | 9.0 | 1.6 | <0.10 | 0.0097 | 0.1530 | 0.0402 |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | Date |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 001 | **Month** | April | **Year** | 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | | **Phone** | (828) 687-5210 |
| **Certified Laboratories:** | (1) PACE Labs | | | Environmental Testing Solutions | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | | Lab Staff | | | |

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**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | 0.0101 | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | <0.001 | <0.001 | 75 | <0.005 | 0.72 | <0.005 | 0.214 | 0.0119 | <0.005 | <0.010 | 0.0152 | 0.0134 | >7.6 | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.0170 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | 0.0346 | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | 0 | 0 | 75 | 0 | 0.72 | 0 | 0.214 | 0.0119 | 0 | 0 | 0.0152 | 0.0188 | >7.6 | |
| Maximum | <0.001 | <0.001 | 75 | <0.005 | 0.72 | <0.005 | 0.214 | 0.0119 | <0.005 | <0.010 | 0.0152 | 0.0346 | >7.6 | |
| Minimum | <0.001 | <0.001 | 75 | <0.005 | 0.72 | <0.005 | 0.214 | 0.0119 | <0.005 | <0.010 | 0.0152 | 0.0101 | >7.6 | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | |
| Monthly Limit | | | | | | | | | | | | 0.63 | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

"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 fines and imprisonment for knowing violations."

| | | |
|---|---|---|
| **Garry A. Whisnant** | | |
| Permittee (Please print or type) | Signature of Permittee** | **Date** |
| **200 CP&L Drive Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month April | Year 2010
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 240.7 | 28.5 | | | 0 | 0 | | | | | | | |
| 2 | 240.7 | 30.0 | | | 0 | 0 | | | | | | | |
| 3 | 240.7 | 30.2 | | | 0 | 0 | | | | | | | |
| 4 | 240.7 | 33.4 | | | 0 | 0 | | | | | | | |
| 5 | 240.7 | 34.3 | | | 0 | 0 | | | | | | | |
| 6 | 240.7 | 36.1 | | 7.3 | 0 | 0 | | | | | | | |
| 7 | 270.7 | 34.8 | | | 0 | 0 | | | | | | | |
| 8 | 305.5 | 34.9 | 60 | | 60 | 80 | | | | | | | |
| 9 | 305.5 | 34.3 | | | 0 | 0 | | | | | | | |
| 10 | 305.5 | 34.0 | | | 120 | 120 | | | | | | | |
| 11 | 305.5 | 33.6 | | | 120 | 120 | | | | | | | |
| 12 | 305.5 | 34.3 | 30 | | 80 | 80 | | | | | | | |
| 13 | 305.5 | 35.2 | | 7.8 | 0 | 0 | | | | | | | |
| 14 | 305.5 | 35.7 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 36.5 | | | 0 | 0 | | | | | | | |
| 16 | 305.5 | 36.6 | | | 0 | 0 | | | | | | | |
| 17 | 305.5 | 33.6 | | | 0 | 0 | | | | | | | |
| 18 | 305.5 | 34.1 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 35.1 | 40 | | 80 | 80 | | | | | | | |
| 20 | 305.5 | 35.5 | 40 | 7.3 | 120 | 120 | | | | | | | |
| 21 | 305.5 | 35.3 | 50 | | 120 | 120 | | | | | | | |
| 22 | 305.5 | 35.5 | 60 | | 120 | 120 | | | | | | | |
| 23 | 305.5 | 35.1 | | | 0 | 0 | | | | | | | |
| 24 | 244.7 | 32.7 | | | 0 | 0 | | | | | | | |
| 25 | 236.5 | 32.5 | | | 0 | 0 | | | | | | | |
| 26 | 150.0 | 37.1 | 60 | | 120 | 0 | | | | | | | |
| 27 | 150.0 | 35.8 | 70 | | 120 | 0 | | | | | | | |
| 28 | 150.0 | 35.1 | 30 | 7.2 | 120 | 0 | | | | | | | |
| 29 | 150.0 | 35.4 | | | 0 | 0 | | | | | | | |
| 30 | 150.0 | 33.6 | | | 0 | 0 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| Average | 261.2 | 34.3 | 49 | | 39 | 28 | | | | | | | |
| Maximum | 305.5 | 37.1 | 70 | 7.8 | 120 | 120 | | | | | | | |
| Minimum | 150.0 | 28.5 | 30 | 7.2 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NPDES Permit No.** | NC0000396 | **Discharge No.** | 004 | **Month** | April | **Year** | 2010 |
| **Facility Name** | Asheville Steam Electric Plant | **Class** | P/C I | **County** | Buncombe | | |
| **Operator In Responsible Charge** | Crystal R. Diedrich | **Grade** | P/C I | | **Phone** | (828) 687-5210 | |
| **Certified Laboratories:** | (1) | | (2) | | | | |
| **Check If ORC has Changed** | | **Person (s) Collecting Samples** | N/A | | | | |

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(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
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| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
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| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| **Average** | | | | | | | | | | | | | | |
| **Maximum** | | | | | | | | | | | | | | |
| **Minimum** | | | | | | | | | | | | | | |
| **Comp. (C)/Grab (G)** | | G | G | | | | | | | | | | | |
| **Monthly Limit** | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements —

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| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | **Date** |
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## EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 005 **Month** April **Year** 2010
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Crystal R. Diedrich **Grade** P/C I **Phone** (828) 687-5210
**Certified Laboratories:** (1) PACE Labs
**Check If ORC has Changed** **Person (s) Collecting Samples** Lab Staff

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**1617 Mail Service Center**
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(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
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| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | 0.288 | | 0.29 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | 0.265 | <2.8 | <0.20 | 0.393 | 0.0261 | <0.001 | <0.001 | 1370 | 0.0060 | <0.005 | 2.2 | <0.005 | 0.0823 | <0.005 | <0.005 | <0.010 | <0.010 |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.363 | | 0.38 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
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| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | 0.338 | | <0.20 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| **Average** | 0.314 | 0 | 0.17 | 0.393 | 0.0261 | 0 | 0 | 1370 | 0.006 | 0 | 2.2 | 0 | 0.0823 | 0 | 0 | 0 | 0 |
| **Maximum** | 0.363 | <2.8 | 0.38 | 0.393 | 0.0261 | <0.001 | <0.001 | 1370 | 0.006 | <0.005 | 2.2 | <0.005 | 0.0823 | <0.005 | <0.005 | <0.010 | <0.010 |
| **Minimum** | 0.265 | <2.8 | <0.20 | 0.393 | 0.0261 | <0.001 | <0.001 | 1370 | 0.006 | <0.005 | 2.2 | <0.005 | 0.0823 | <0.005 | <0.005 | <0.010 | <0.010 |
| **Comp. (C)/Grab (G)** | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** **Date**

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286**
Phone Number

**December 31, 2010**
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 4/13/2010

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 1.23 | 3.90 |
| Selenite [Se (IV)] | 30.3 | 96.10 |

# EFFLUENT

**NPDES Permit No.** NC0000396 **Discharge No.** 001 **Month** May **Year** 2010
**Facility Name** Asheville Steam Electric Plant **Class** P/C I **County** Buncombe
**Operator In Responsible Charge** Crystal R. Diedrich **Grade** P/C I **Phone** (828) 687-5210
**Certified Laboratories:** (1) PACE Labs (2) Asheville Steam Electric Plant
(3) Applied Speciation and Consulting (4)
**Check If ORC has Changed** **Person (s) Collecting Samples:** Lab Staff

**Mail ORIGINAL and ONE COPY to:**
**ATTN: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

**(x)**
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** **DATE**
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | Operator Arrival Time 2400 Clock Hrs | Operator Time On Site Hrs | * ORC On Site Y/B/N | 50050 Flow Effluent Daily Rate MGD | 00400 pH Units | 00530 Total Suspended Residue mg/L | 00556 Oil & Grease mg/L | 00600 Total Nitrogen mg/L | 00625 Total Kjeldahl-N mg/L | 00630 Nitrite+ Nitrate-N mg/L | 00665 Total Phosphorous mg/L | 01042 Total Copper mg/L | 1002 Total Arsenic mg/L | 1147 Total Selenium mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | N | | | | | | | | | | | |
| 2 | | | N | | | | | | | | | | | |
| 3 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 4 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 5 | 07:30 | 10.0 | Y | 2.33 | 6.8 | | | | | | | | | |
| 6 | 07:30 | 8.5 | Y | | | | | | | | | | | |
| 7 | 07:30 | 5.0 | Y | | | | | | | | | | | |
| 8 | | | N | | | | | | | | | | | |
| 9 | | | N | | | | | | | | | | | |
| 10 | 13:45 | 7.5 | Y | | | | | | | | | | | |
| 11 | 11:30 | 7.0 | Y | | | | | | | | | | | |
| 12 | 07:30 | 9.5 | Y | | | | | | | | | | | |
| 13 | 07:30 | 10.0 | Y | 3.50 | 7.8 | <4.2 | <5.0 | | | | | | 0.0850 | 0.0582 |
| 14 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 15 | | | N | | | | | | | | | | | |
| 16 | | | N | | | | | | | | | | | |
| 17 | 07:30 | 9.0 | Y | | | | | | | | | | | |
| 18 | 07:20 | 9.5 | Y | | | | | | | | | | | |
| 19 | 07:30 | 9.5 | Y | | | | | | | | | | | |
| 20 | 07:30 | 10.5 | Y | 3.01 | 7.0 | | | | | | | | | |
| 21 | 07:00 | 8.8 | B | | | | | | | | | | | |
| 22 | | | N | | | | | | | | | | | |
| 23 | | | N | | | | | | | | | | | |
| 24 | 07:30 | 10.0 | Y | | | | | | | | | | | |
| 25 | 06:00 | 9.0 | B | | | | | | | | | | | |
| 26 | 06:00 | 10.0 | B | 3.50 | 7.2 | | | | | | | | | |
| 27 | 06:00 | 9.0 | B | | | | | | | | | | | |
| 28 | 05:30 | 7.0 | B | | | | | | | | | | | |
| 29 | | | N | | | | | | | | | | | |
| 30 | | | N | | | | | | | | | | | |
| 31 | Holiday | | N | | | | | | | | | | | |
| **Average** | | | | 3.08 | | 0 | 0 | | | | | | 0.0850 | 0.0582 |
| **Maximum** | | | | 3.50 | 7.8 | <4.2 | <5.0 | | | | | | 0.0850 | 0.0582 |
| **Minimum** | | | | 2.33 | 6.8 | <4.2 | <5.0 | | | | | | 0.0850 | 0.0582 |
| **Comp. (C)/Grab (G)** | | | | | G | G | G | G | G | G | G | G | G | G |
| **Monthly Limit** | | | | | 6 - 9 | 30.0 | 15.0 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type) | Signature of Permittee** | Date

**200 CP&L Drive** **Arden, N.C.** **28704** | **(828) 684-4286** | **December 31, 2010**
Permittee Address | Phone Number | Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 001 | Month May | Year 2010
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L | 71900 Total Mercury µg/L | THP3B Chronic Toxicity % Eff | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | 0.0832 | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | 56.7 | | | | | | | | | 0.0270 | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | 0.0302 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | 0.0196 | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | 56.7 | | | | | | | | | 0.0400 | | |
| Maximum | | | 56.7 | | | | | | | | | 0.0832 | | |
| Minimum | | | 56.7 | | | | | | | | | 0.0196 | | |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | | G | G | G | |
| Monthly Limit | | | | | | | | | | | | 0.63 | 1.9 | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type)

Signature of Permittee** Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address

(828) 684-4286
Phone Number

December 31, 2010
Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 002 | Month May | Year 2010
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories (1) Asheville Steam Electric Plant
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
ATTN: Central Files
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00010 Temperature Celsius C | 50060 Total Residual Chlorine ug/L | 00400 pH Units | Unit 1 Time of Cl2 Addition Minutes | Unit 2 Time of Cl2 Addition Minutes | Enter Parameter Code Above Name And Units Below | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 150.0 | 32.9 | | | 0 | 0 | | | | | | | |
| 2 | 150.0 | 34.6 | | | 0 | 0 | | | | | | | |
| 3 | 150.0 | 35.8 | | | 0 | 0 | | | | | | | |
| 4 | 150.0 | 35.7 | 60 | | 80 | 0 | | | | | | | |
| 5 | 150.0 | 34.6 | 70 | 7.2 | 120 | 0 | | | | | | | |
| 6 | 150.0 | 36.4 | 80 | | 120 | 0 | | | | | | | |
| 7 | 150.0 | 36.6 | | | 0 | 0 | | | | | | | |
| 8 | 209.5 | 34.0 | | | 120 | 0 | | | | | | | |
| 9 | 240.7 | 31.4 | | | 120 | 0 | | | | | | | |
| 10 | 252.8 | 31.0 | 80 | | 120 | 0 | | | | | | | |
| 11 | 305.5 | 32.6 | 70 | | 120 | 0 | | | | | | | |
| 12 | 305.5 | 32.7 | 60 | | 120 | 60 | | | | | | | |
| 13 | 305.5 | 34.4 | 60 | 7.5 | 120 | 120 | | | | | | | |
| 14 | 305.5 | 34.9 | | | 0 | 0 | | | | | | | |
| 15 | 305.5 | 34.8 | | | 120 | 120 | | | | | | | |
| 16 | 305.5 | 35.7 | | | 120 | 120 | | | | | | | |
| 17 | 305.5 | 36.2 | 50 | | 60 | 40 | | | | | | | |
| 18 | 305.5 | 36.8 | | | 0 | 0 | | | | | | | |
| 19 | 305.5 | 37.0 | | | 0 | 0 | | | | | | | |
| 20 | 305.5 | 37.2 | 60 | 6.5 | 60 | 80 | | | | | | | |
| 21 | 305.5 | 37.6 | | | 0 | 0 | | | | | | | |
| 22 | 305.5 | 37.3 | | | 120 | 120 | | | | | | | |
| 23 | 305.5 | 37.3 | | | 120 | 120 | | | | | | | |
| 24 | 305.5 | 37.9 | 90 | | 60 | 60 | | | | | | | |
| 25 | 305.5 | 38.2 | | | 0 | 0 | | | | | | | |
| 26 | 305.5 | 38.5 | | 6.4 | 0 | 0 | | | | | | | |
| 27 | 305.5 | 38.9 | | | 0 | 0 | | | | | | | |
| 28 | 305.5 | 39.1 | | | 120 | 0 | | | | | | | |
| 29 | 305.5 | 38.5 | | | 0 | 0 | | | | | | | |
| 30 | 305.5 | 39.5 | | | 0 | 0 | | | | | | | |
| 31 | 305.5 | 40.0 | | | 0 | 0 | | | | | | | |
| Average | 263.5 | 36.1 | 68 | | 59 | 27 | | | | | | | |
| Maximum | 305.5 | 40.0 | 90 | 7.5 | 120 | 120 | | | | | | | |
| Minimum | 150.0 | 31.0 | 50 | 6.4 | 0 | 0 | | | | | | | |
| Comp. (C)/Grab (G) | | | G | G | | | | | | | | | |
| Monthly Limit | | 44.4 | 200.0 | | 120 | 120 | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

**Garry A. Whisnant**
Permittee (Please print or type)

Signature of Permittee** Date

**200 CP&L Drive Arden, N.C. 28704**
Permittee Address

**(828) 684-4286** **December 31, 2010**
Phone Number Permit Exp. Date

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** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).


The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# EFFLUENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NPDES Permit No. | NC0000396 | Discharge No. | 004 | Month | May | Year | 2010 |
| Facility Name | Asheville Steam Electric Plant | Class | P/C I | County | Buncombe | | |
| Operator In Responsible Charge | Crystal R. Diedrich | Grade | P/C I | | Phone | (828) 687-5210 | |
| Certified Laboratories: | (1) | | (2) | | | | |
| Check If ORC has Changed | | Person (s) Collecting Samples | N/A | | | | |

**Mail ORIGINAL and ONE COPY to:**
**Attn: Central Files**
**North Carolina Division of Water Quality**
**1617 Mail Service Center**
**Raleigh, N. C. 27699-1617**

(x)
**(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE)** Date
**By This Signature, I Certify That This Report Is**
**Accurate And Complete To The Best Of My Knowledge.**
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 1042 Total Copper mg/L | 1045 Total Iron mg/L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enter Parameter Code Above Name And Units Below | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | There was no chemical metal cleaning discharge during the month. | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
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| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | |
| Comp. (C)/Grab (G) | | G | G | | | | | | | | | | | |
| Monthly Limit | | 1.0 | 1.0 | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements — XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 fines and imprisonment for knowing violations."

| | | | |
|---|---|---|---|
| **Garry A. Whisnant** | | | |
| Permittee (Please print or type) | | Signature of Permittee** | Date |
| **200 CP&L Drive** | **Arden, N.C. 28704** | **(828) 684-4286** | **December 31, 2010** |
| Permittee Address | | Phone Number | Permit Exp. Date |

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
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## EFFLUENT

NPDES Permit No. NC0000396 | Discharge No. 005 | Month May | Year 2010
Facility Name Asheville Steam Electric Plant | Class P/C I | County Buncombe
Operator In Responsible Charge Crystal R. Diedrich | Grade P/C I | Phone (828) 687-5210
Certified Laboratories: (1) PACE Labs
Check If ORC has Changed | Person (s) Collecting Samples Lab Staff

Mail ORIGINAL and ONE COPY to:
Attn: Central Files
North Carolina Division of Water Quality
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Raleigh, N. C. 27699-1617

(x)
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) Date
By This Signature, I Certify That This Report Is
Accurate And Complete To The Best Of My Knowledge.
Because of documented variations in precision and bias of EPA procedures,
it is not possible to absolutely certify the precise accuracy of the data contained in this DMR.

| Date | 50050 Flow Effluent Daily Rate MGD | 00530 Total Suspended Residue mg/L | 71900 Total Mercury µg/L | 01147 Total Selenium mg/L | 01002 Total Arsenic mg/L | 01012 Total Beryllium mg/L | 01027 Total Cadmium mg/L | 00940 Total Chloride mg/L | 01034 Total Chromium mg/L | 01042 Total Copper mg/L | 00951 Total Fluoride mg/L | 01051 Total Lead mg/L | 01055 Total Manganese mg/L | 01067 Total Nickel mg/L | 01077 Total Silver mg/L | 01059 Total Thallium mg/L | 01092 Total Zinc mg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | 0.459 | | 0.35 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | 0.363 | <8.3 | 0.57 | 0.269 | 0.0064 | <0.001 | <0.001 | 825 | <0.005 | 0.0054 | 2.7 | <0.005 | 0.3620 | <0.005 | <0.005 | <0.010 | <0.010 |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | 0.325 | | 0.27 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | 0.376 | | <0.20 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| Average | 0.381 | 0 | 0.30 | 0.269 | 0.0064 | 0 | 0 | 825 | 0 | 0.0054 | 2.7 | 0 | 0.3620 | 0 | 0 | 0 | 0 |
| Maximum | 0.459 | <8.3 | 0.35 | 0.269 | 0.0064 | <0.001 | <0.001 | 825 | <0.005 | 0.0054 | 2.7 | <0.005 | 0.3620 | <0.005 | <0.005 | <0.010 | <0.010 |
| Minimum | 0.325 | <8.3 | <0.20 | 0.269 | 0.0064 | <0.001 | <0.001 | 825 | <0.005 | 0.0054 | 2.7 | <0.005 | 0.3620 | <0.005 | <0.005 | <0.010 | <0.010 |
| Comp. (C)/Grab (G) | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Monthly Limit | | | | | | | | | | | | | | | | | |

Facility Status: (Please Check one of the following)

All monitoring data and sampling frequencies meet permit requirements XXXX

All monitoring data and sampling frequencies do NOT meet permit requirements

"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 false information, including the possibility of fines and imprisonment for knowing violations."

Garry A. Whisnant
Permittee (Please print or type) | Signature of Permittee** | Date

200 CP&L Drive Arden, N.C. 28704
Permittee Address | (828) 684-4286 Phone Number | December 31, 2010 Permit Exp. Date

* ORC must visit facility and document visitations of facility as required per 15A NCAC 8G .0204.
** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).
The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only designated units in the reporting facility's permit for reporting data.

# Asheville Steam Electric Plant

NPDES Permit No. NC0000396

Addendum to Discharge Monitoring Report

Outfall 001

Sample Date: 5/13/2010

| | µg/l | Percentage |
|---|---|---|
| Selenate [Se (VI)] | 11.90 | 23.38 |
| Selenite [Se (IV)] | 39.0 | 76.62 |

**Appendix F**

Coal Ash Analyses
Questions 7 and 8

## ANNUAL DISTRIBUTION AND MARKETING/ SURFACE DISPOSAL CERTIFICATION AND SUMMARY FORM

**PERMIT #:** WQ 0000020 **FACILITY NAME:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**PHONE:** 828-687-5240 **COUNTY:** Buncombe **OPERATOR:** Progress Energy Carolinas, Inc.

**FACILITY TYPE (please check one):** ☐ **Surface Disposal (complete Part A (Source(s) and "Residual In" Volume only) and Part C)**

☑ **Distribution and Marketing (complete Parts A, B, and C)**

**Was the facility in operation during the past calendar year?** ☑ **Yes** ☐ **No** **No If No skip parts A, B, C and certify form below**

| **Part A*:** | | | | | **Part B*:** | | |
|---|---|---|---|---|---|---|---|
| | | **Volume (dry tons)** | | | **Recipient Information** | | |
| **Month** | **Sources(s) (include NPDES # if applicable)** | Admendment/ Bulking Agent | Residual In | Product Out | Name(s) | Volume (dry tons) | Intended use(s) |
| **January** | Asheville Steam Plant Coal Ash | 0 | 0 | 118 | PQ Corp. | 118 | * - see bel |
| **February** | | 0 | 0 | 0 | | | |
| **March** | Asheville Steam Plant Coal Ash | 0 | 0 | 2,013 | Buncombe Co. Landfill | 2,013 | Daily Cover |
| **April** | Asheville Steam Plant Coal Ash | 0 | 0 | 1,666 | Buncombe Co. Landfill | 1,666 | Daily Cover |
| **May** | Asheville Steam Plant Coal Ash | 0 | 0 | 3,355 | Buncombe Co. Landfill | 3,355 | Daily Cover |
| **June** | | 0 | 0 | 0 | | | |
| **July** | Asheville Steam Plant Coal Ash | 0 | 0 | 62 | PQ Corp. | 62 | * - see below |
| **August** | | 0 | 0 | 0 | | | |
| **September** | | 0 | 0 | 0 | | | |
| **October** | | 0 | 0 | 0 | | | |
| **November** | | 0 | 0 | 0 | | | |
| **December** | Asheville Steam Plant Coal Ash | 0 | 0 | 16 | * - Used in manufactured | products by | PQ Corporation |
| **Totals:** | **Annual (dry tons):** | 0 | 0 | 7230 | in Chattanooga, TN | 16 | * - see below |
| | | | | | | 7230 | |
| Admendment(s) used: | None | Bulking Agent(s) used: | None | | | | |

* If more space than given is required, please attach additional information sheet(s). ☐ Check box if additional sheet(s) are attached

**Part C:**

**Facility was compliant during calendar year** 2005 **with all conditions of the permit (including but not limited to items 1-3 below) issued by the Division of Water Quality.** ☑ **Yes** ☐ **No** **If No, please provide a written description why the facility was not compliant.**

1. All monitoring was done in accordance with the permit and reported for the year as required and three (3) copies of certified laboratory results are attached.
2. All operation and maintenance requirements were compiled with or, in the case of a deviation, prior authorization was received from the Division of Water Quality.
3. No contravention of Ground Water Quality Standards occurred at a monitoring well.

**"I certify, under penalty of law, that the above information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false informaiton, including the possibility of fines and imprisonment for knowing violations."**

Signature of Permittee — Date: 2/2/06

Signature of Preparer** — Date

(if different from Permittee) **Preparer is defined in 40 CFR Part 503.9(r)

DENR FORM DMSDF (5/2003)

Progress Energy Carolinas, Inc., Asheville Plant

Attachments Page 555

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

**Attach this form to the corresponding Annual Report**

**Please note that your permit may contain additional parameters to be analyzed than those required to be summarized on this form.**

**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Pace Analytical Services, Inc.
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample or Composite Date | 05/09/05 | | | | | | | | | | | |
| | Percent Solids | N/A | | | | | | | | | | | |
| **Parameters (mg/kg)** | Arsenic | 79 | | | | | | | | | | | |
| | Cadmium | <0.12 | | | | | | | | | | | |
| | Chromium | 13 | | | | | | | | | | | |
| | Copper | 32 | | | | | | | | | | | |
| | Lead | 13 | | | | | | | | | | | |
| | Mercury | 0.14 | | | | | | | | | | | |
| | Molybdenum | 4 | | | | | | | | | | | |
| | Nickel | 13 | | | | | | | | | | | |
| | Selenium | 13 | | | | | | | | | | | |
| | Zinc | 21 | | | | | | | | | | | |
| | Total Phosphorus | 84.4 | | | | | | | | | | | |
| | TKN | N/A | | | | | | | | | | | |
| | Ammonia-Nitrogen | N/A | | | | | | | | | | | |
| | Nitrate and Nitrite | N/A | | | | | | | | | | | |

**"I certify, under penalty of law, that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."**

Signature of Preparer

2/2/06
Date

DENR FORM BSSF (6/2002)

Progress Energy Carolinas, Inc., Asheville Plant

Attachments Page 36

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

**Attach this form to the corresponding Annual Report**

**Please note that your permit may contain additional parameters to be analyzed than those required to be summarized on this form.**

**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Pace Analytical Services, Inc.
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

| Parameters (mg/kg) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample or Composite Date | 05/09/05 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Barium | 950 | | | | | | | | | | | | |
| Calcium | 2300 | | | | | | | | | | | | |
| Magnesium | 880 | | | | | | | | | | | | |
| Manganese | 70 | | | | | | | | | | | | |
| Potassium | 1800 | | | | | | | | | | | | |
| Silver | <0.25 | | | | | | | | | | | | |
| Sodium | 270 | | | | | | | | | | | | |
| pH (s.u.) | 6.94 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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Signature of Preparer

2/2/06
Date



Progress Energy Carolinas, Inc., Asheville Plant
Attachments Page 557

# ANNUAL DISTRIBUTION AND MARKETING/ SURFACE DISPOSAL CERTIFICATION AND SUMMARY FORM

**PERMIT #:** WQ 0000020 **FACILITY NAME:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**PHONE:** 828-687-5240 **COUNTY:** Buncombe **OPERATOR:** Progress Energy Carolinas, Inc.

**FACILITY TYPE (please check one):** ☐ **Surface Disposal (complete Part A (Source(s) and "Residual In" Volume only) and Part C)**

☑ **Distribution and Marketing (complete Parts A, B, and C)**

**Was the facility in operation during the past calendar year?** ☑ **Yes** ☐ **No** **No If No skip parts A, B, C and certify form below**

| **Part A*:** | | | | | **Part B*:** | | |
|---|---|---|---|---|---|---|---|
| | | **Volume (dry tons)** | | | **Recipient Information** | | |
| **Month** | **Sources(s) (include NPDES # if applicable)** | Admendment/ Bulking Agent | Residual In | Product Out | Name(s) | Volume (dry tons) | Intended use(s) |
| **January** | Asheville Steam Plant Coal Ash | 0 | 0 | 87.3 | Sphere One | 87.3 | * - see below |
| **February** | | 0 | 0 | 0 | | 0 | |
| **March** | | 0 | 0 | 0 | | 0 | |
| **April** | | 0 | 0 | 0 | | 0 | |
| **May** | | 0 | 0 | 0 | | 0 | |
| **June** | | 0 | 0 | 0 | | 0 | |
| **July** | Asheville Steam Plant Coal Ash | 0 | 0 | 148.73 | Sphere One | 148.73 | * - see below |
| **August** | | 0 | 0 | 0 | | 0 | |
| **September** | | 0 | 0 | 0 | | 0 | |
| **October** | | 0 | 0 | 0 | | 0 | |
| **November** | | 0 | 0 | 0 | * - Used in manufactured | products by | Sphere One |
| **December** | Asheville Steam Plant Coal Ash | 0 | 0 | 55.93 | in Chattanooga, TN | 55.93 | |
| **Totals:** | **Annual (dry tons):** | 0 | 0 | 291.96 | | 291.96 | |

Admendment(s) used: None Bulking Agent(s) used: None

* If more space than given is required, please attach additional information sheet(s). ☐ Check box if additional sheet(s) are attached

**Part C:**

**Facility was compliant during calendar year** 2006 **with all conditions of the permit (including but not limited to items 1-3 below) issued by the Division of Water Quality.** ☑ **Yes** ☐ **No** **If No, please provide a written description why the facility was not compliant.**

1. All monitoring was done in accordance with the permit and reported for the year as required and three (3) copies of certified laboratory results are attached.
2. All operation and maintenance requirements were compiled with or, in the case of a deviation, prior authorization was received from the Division of Water Quality.
3. No contravention of Ground Water Quality Standards occurred at a monitoring well.

**"I certify, under penalty of law, that the above information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false informaiton, including the possibility of fines and imprisonment for knowing violations."**

Signature of Permittee — Date: 3/14/07

Signature of Preparer** — Date

(if different from Permittee) **Preparer is defined in 40 CFR Part 503.9(r)

DENR FORM DMSDF (5/2003)

Progress Energy Carolinas, Inc., Asheville Plant

Attachments, Page 558

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

**Attach this form to the corresponding Annual Report**

**Please note that your permit may contain additional parameters to be analyzed than those required to be summarized on this form.**

**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Progress Energy HEEC Laboratory
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample or Composite Date | 01/03/06 | | | | | | | | | | | |
| | Percent Solids | N/A | | | | | | | | | | | |
| **Parameters (mg/kg)** | Arsenic | 120 | | | | | | | | | | | |
| | Cadmium | <2 | | | | | | | | | | | |
| | Chromium | <40 | | | | | | | | | | | |
| | Copper | 170 | | | | | | | | | | | |
| | Lead | 110 | | | | | | | | | | | |
| | Mercury | <4 | | | | | | | | | | | |
| | Molybdenum | 14 | | | | | | | | | | | |
| | Nickel | 79 | | | | | | | | | | | |
| | Selenium | 140 | | | | | | | | | | | |
| | Zinc | 290 | | | | | | | | | | | |
| | Total Phosphorus | 1200 | | | | | | | | | | | |
| | TKN | N/A | | | | | | | | | | | |
| | Ammonia-Nitrogen | N/A | | | | | | | | | | | |
| | Nitrate and Nitrite | N/A | | | | | | | | | | | |

**"I certify, under penalty of law, that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."**

Signature of Preparer

3/14/07
Date

DENR FORM RSSF (5/2003)

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

**Attach this form to the corresponding Annual Report**

**Please note that your permit may contain additional parameters to be analyzed than those required to be summarized on this form.**

**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Progress Energy HEEC Laboratory
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

| | Sample or Composite Date | 01/03/06 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| **Parameters (mg/kg)** | Barium | 1000 | | | | | | | | | | | |
| | Calcium | 29000 | | | | | | | | | | | |
| | Magnesium | 11200 | | | | | | | | | | | |
| | Manganese | 330 | | | | | | | | | | | |
| | Potassium | 16000 | | | | | | | | | | | |
| | Silver | <5 | | | | | | | | | | | |
| | Sodium | <4000 | | | | | | | | | | | |
| | pH (s.u.) | 7.4 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

**"I certify, under penalty of law, that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."**

Signature of Preparer

3/14/07
Date

DENR FORM RSSF-B (5/2003)

Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.

Annual coal ash TCLP test required per Condition III.3.
Permit WQ0000020 Dated February 17, 2006

Results in (mg/l)

| **Parameter (limit)/Plant** | **Asheville Plant** Sample Dated 10/03/07 | **Mayo Plant** Sample Dated 06/11/07 | **Roxboro Plant** Sample Dated 10/01/07 |
|---|---|---|---|
| Arsenic (5.0) | 0.13 | <0.05 | <0.05 |
| Barium (100.0) | 5.9 | <1.0 | <1.0 |
| Cadmium (1.0) | <0.005 | <0.01 | <0.01 |
| Chromium (5.0) | <0.025 | <0.05 | <0.05 |
| Lead (5.0) | <0.025 | <0.05 | <0.05 |
| Mercury (0.2) | <0.0002 | <0.0002 | <0.0002 |
| Selenium (1.0) | 0.12 | <0.01 | <0.01 |
| Silver (5.0) | <0.025 | <0.05 | <0.05 |

# ANNUAL DISTRIBUTION AND MARKETING/ SURFACE DISPOSAL CERTIFICATION AND SUMMARY FORM

**PERMIT #:** WQ 0000020 **FACILITY NAME:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**PHONE:** 828-687-5240 **COUNTY:** Buncombe **OPERATOR:** Progress Energy Carolinas, Inc.

**FACILITY TYPE (please check one):** ☐ **Surface Disposal (complete Part A (Source(s) and "Residual In" Volume only) and Part C)**

☑ **Distribution and Marketing (complete Parts A, B, and C)**

**Was the facility in operation during the past calendar year?** ☑ **Yes** ☐ **No** **No If No skip parts A, B, C and certify form below**

| **Part A*:** | | | | | **Part B*:** | | |
|---|---|---|---|---|---|---|---|
| | | **Volume (dry tons)** | | | **Recipient Information** | | |
| **Month** | **Sources(s) (include NPDES # if applicable)** | Admendment/ Bulking Agent | Residual In | Product Out | Name(s) | Volume (dry tons) | Intended use(s) |
| **January** | | 0 | 0 | 0 | | 0 | |
| **February** | | 0 | 0 | 0 | | 0 | |
| **March** | Asheville Steam Plant Coal Ash | 0 | 179 | 0 | Charah, Inc | 179 | Concrete |
| **April** | Asheville Steam Plant Coal Ash | 0 | 2113 | 0 | | 2,113 | Block |
| **May** | Asheville Steam Plant Coal Ash | 0 | 2136 | 0 | | 2,136 | |
| **June** | Asheville Steam Plant Coal Ash | 0 | 19 | 0 | On-site use as pipe | 19 | bedding |
| **July** | Asheville Steam Plant Coal Ash | 0 | 577 | 0 | | 577 | |
| **August** | Asheville Steam Plant Coal Ash | 0 | 614 | 0 | * Manufactured Product | 614 | |
| **September** | Asheville Steam Plant Coal Ash | 0 | 592 | 0 | in Chattanooga, TN | 592 | |
| **October** | Asheville Steam Plant Coal Ash | 0 | 74 | 0 | | 74 | |
| **November** | Asheville Steam Plant Coal Ash | 0 | 587 | 0 | Sphere One | 587 | * - see above |
| **December** | Asheville Steam Plant Coal Ash | 0 | 14025 | 0 | Charah, Inc | 14025 | Structural fill |
| **Totals:** | **Annual (dry tons):** | 0 | 20916 | 0 | | 20916 | |
| Admendment(s) used: | None | | Bulking Agent(s) used: | | None | | |

* If more space than given is required, please attach additional information sheet(s). ☐ Check box if additional sheet(s) are attached

**Part C:**

**Facility was compliant during calendar year** 2007 **with all conditions of the permit (including but not limited to items 1-3 below) issued by the Division of Water Quality.** ☑ **Yes** ☐ **No** **If No, please provide a written description why the facility was not compliant.**

1. All monitoring was done in accordance with the permit and reported for the year as required and three (3) copies of certified laboratory results are attached.
2. All operation and maintenance requirements were compiled with or, in the case of a deviation, prior authorization was received from the Division of Water Quality.
3. No contravention of Ground Water Quality Standards occurred at a monitoring well.

**"I certify, under penalty of law, that the above information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false informaiton, including the possibility of fines and imprisonment for knowing violations."**

Gary S Whisnant — Signature of Permittee

2/1/08 — Date

_____ — Signature of Preparer** (if different from Permittee)

_____ — Date

**Preparer is defined in 40 CFR Part 503.9(r)

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

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**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Pace Analytical Services, Inc.
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

| | Sample or Composite Date | 08/28/07 | 09/12/07 | 10/03/07 | 10/16/07 | 10/22/07 | 11/01/07 | 11/06/07 | 11/14/07 | 11/28/07 | 12/05/07 | 12/12/07 | 12/20/07 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Percent Solids | 75.40% | 72.10% | 76.20% | 75.30% | 64.70% | 79.80% | 76.80% | 72.70% | 72.20% | 70.80% | 73.70% | 69.30% |
| Parameters (mg/kg) | Arsenic | 62.8 | 66.1 | 81.5 | 58.3 | 126 | 62.1 | 64.5 | 58.8 | 74.5 | 87.3 | 58.7 | 81.7 |
| | Cadmium | <0.088 | 0.6 | <0.15 | <0.12 | <0.16 | <0.11 | <0.12 | <0.13 | <0.14 | <0.14 | <0.11 | <0.13 |
| | Chromium | 14.7 | 14.3 | 16.8 | 9.9 | 16.4 | 10 | 10.8 | 8.7 | 13.8 | 10.8 | 13.6 | 17.1 |
| | Copper | 36.5 | 32.8 | 38.7 | 28.4 | 38.5 | 25.7 | 30.3 | 25.5 | 32.4 | 34.3 | 31.6 | 48.8 |
| | Lead | 11.4 | 9.7 | 13.3 | 10.9 | 18.1 | 9 | 10.5 | 9.2 | 10.4 | 11.8 | 11 | 16.7 |
| | Mercury | 0.19 | 0.25 | 0.25 | 0.13 | 0.39 | 0.15 | 0.12 | 0.2 | 0.35 | 0.14 | 0.18 | 0.27 |
| | Molybdenum | 2.2 | 2.8 | 3.6 | 4.3 | 4.1 | 1.8 | 3.3 | 3.5 | 4 | 3.6 | 2.7 | 2.7 |
| | Nickel | 15.4 | 13.6 | 16.4 | 9.5 | 15.5 | 11 | 10.3 | 9.4 | 13.1 | 11.8 | 11.7 | 20.7 |
| | Selenium | 12.1 | 4.7 | 13.2 | 17.1 | 24.4 | 11.9 | 11.5 | 12 | 15.6 | 15.4 | 11.1 | 18.6 |
| | Zinc | 19.3 | 15.9 | 30.4 | 21 | 22.9 | 13.9 | 17.3 | 13.6 | 16.6 | 21 | 14 | 26.4 |
| | Total Phosphorus | 22.5 | 18.8 | 128 | 94.2 | 10.5 | 6.4 | <6.5 | 17.7 | 7.2 | <6.7 | 101 | <7.2 |
| | TKN | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Ammonia-Nitrogen | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Nitrate and Nitrite | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

**"I certify, under penalty of law, that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."**

Gary S Whitt
Signature of Preparer

2/1/08
Date

DENR FORM RSSF (5/2003)

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

**Attach this form to the corresponding Annual Report**

**Please note that your permit may contain additional parameters to be analyzed than those required to be summarized on this form.**

**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Pace Analytical Services, Inc.
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

| | Sample or Composite Date | 08/28/07 | 09/12/07 | 10/03/07 | 10/16/07 | 10/22/07 | 11/01/07 | 11/06/07 | 11/14/07 | 11/28/07 | 12/05/07 | 12/12/07 | 12/20/07 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| Parameters (mg/kg) | Barium | 3190 | 986 | 1060 | 1020 | 1020 | 1460 | 1010 | 921 | 932 | 1160 | 1520 | 1200 |
| | Calcium | 2720 | 2470 | 2960 | 2040 | 2000 | 1860 | 2070 | 2050 | 1950 | 2520 | 3050 | 3000 |
| | Magnesium | 902 | 766 | 1000 | 576 | 1000 | 682 | 665 | 640 | 729 | 809 | 810 | 1160 |
| | Manganese | 130 | 232 | 147 | 247 | 40.2 | 155 | 105 | 69.1 | 112 | 78.1 | 148 | 123 |
| | Potassium | 2030 | 1650 | 2070 | 1160 | 2320 | 1610 | 1560 | 1410 | 1660 | 1890 | 1460 | 3560 |
| | Silver | <0.44 | <0.67 | <0.74 | <0.58 | <0.79 | <0.53 | <0.58 | <0.66 | <0.68 | <0.71 | <0.56 | <0.67 |
| | Sodium | <440 | <660 | <745 | <583 | <789 | <531 | <581 | <662 | <679 | <706 | <556 | <668 |
| | pH (s.u.) | 7.42 | 7.62 | 7.58 | 7.13 | 7.26 | 7 | 7.71 | 7.64 | 7.07 | 7.15 | 7.27 | 7.4 |
| | | | | | | | | | | | | | |
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**"I certify, under penalty of law, that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."**

Signature of Preparer

2/1/08
Date

DENR FORM RSSF-B (5/2003)

2008 Ash Analysis

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

**Attach this form to the corresponding Annual Report**

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**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Pace Analytical Services, Inc.
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

Progress Energy Carolinas, Inc., Asheville Plant

| Sample or Composite Date | 01/08/08 | 02/05/08 | 03/11/08 | 04/08/08 | 05/06/08 | 06/10/08 | 07/08/08 | 08/06/08 | 09/01/08 | 10/14/08 | 11/06/08 | 12/04/08 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Parameters (mg/kg)** | | | | | | | | | | | | |
| Barium | 1220 | 1200 | 1180 | 729 | 691 | 1130 | 1380 | 1070 | 1200 | 732 | 869 | 611 |
| Calcium | 2560 | 2660 | 2640 | 2400 | 5850 | 3340 | 1820 | 2470 | 2900 | 3530 | 2330 | 2710 |
| Magnesium | 948 | 914 | 601 | 905 | 864 | 953 | 667 | 798 | 844 | 947 | 760 | 641 |
| Manganese | 68.3 | 94.5 | 217 | 70 | 181 | 161 | 136 | 133 | 112 | 116 | 99.5 | 92.8 |
| Potassium | 2400 | 2210 | 1230 | 2570 | 1530 | 2190 | 1720 | 1950 | 1950 | 1810 | 1970 | 1430 |
| Silver | <0.65 | <0.71 | <0.34 | <0.39 | <0.38 | <0.32 | <0.4 | <0.56 | <0.42 | <0.67 | <0.46 | <0.45 |
| Sodium | <649 | <708 | <338 | <394 | <383 | <325 | <396 | <565 | <415 | <675 | <456 | <452 |
| pH (s.u.) | 6.56 | 6.98 | 6.83 | 6.8 | 8.07 | 7.62 | 7.13 | 7.3 | 7.2 | 7.5 | 7.2 | 6.8 |
| | | | | | | | | | | | | |
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Gary S Hall
Signature of Preparer

2/8/09
Date

Attachments, Page 565

DENR FORM RSSF-B (5/2003)

12570-E

2008 Ash Analysis

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

**Attach this form to the corresponding Annual Report**

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Progress Energy Carolinas, Inc., Asheville Plant

**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Pace Analytical Services, Inc.
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

Parameters (mg/kg)

| Sample or Composite Date | 01/08/08 | 02/05/08 | 03/11/08 | 04/08/08 | 05/06/08 | 06/10/08 | 07/08/08 | 08/06/08 | 09/01/08 | 10/14/08 | 11/06/08 | 12/04/08 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Solids | 28.70% | 72.00% | 84.00% | 69.80% | 92.00% | 87.60% | 71.80% | 77.60% | 69.20% | 78.80% | 75.10% | 69.90% |
| Arsenic | 108 | 80.2 | 67.1 | 124 | 47 | 74.5 | 74 | 84.2 | 82.3 | 57.9 | 65.6 | 60 |
| Cadmium | 0.16 | <0.14 | 1.5 | <0.079 | 1.1 | 2.7 | 0.56 | 0.13 | 0.48 | <0.13 | 0.25 | <0.09 |
| Chromium | 15.2 | 16.9 | 14.5 | 18.8 | 12.6 | 17 | 16.8 | 21.7 | 21.3 | 15.1 | 14.2 | 11.4 |
| Copper | 45.6 | 38.5 | 24.9 | 49.1 | 44.4 | 35.8 | 29.2 | 32.3 | 45.9 | 28.6 | 32.4 | 22.2 |
| Lead | 17.8 | 15 | 7.1 | 18.3 | 8.4 | 11.9 | 9.3 | 8.9 | 11.6 | 10.5 | 10.8 | 7.3 |
| Mercury | 0.33 | 0.28 | 0.15 | 0.19 | 0.12 | 0.32 | 0.13 | 0.4 | 0.12 | 0.17 | 0.17 | <0.0095 |
| Molybdenum | 4.1 | 3 | 2.4 | 4.4 | 1.6 | 2.8 | 4.6 | 8.8 | 4.5 | 4.4 | 3.3 | 3 |
| Nickel | 16.1 | 16 | 11 | 23.2 | 11 | 13.3 | 13.8 | 15 | 15.5 | 12.4 | 12.9 | 9 |
| Selenium | 15.3 | 11.5 | 3 | 23.6 | 1.7 | 1.8 | 16.4 | 17.3 | 14.5 | 11.1 | 9.9 | 13.6 |
| Zinc | 23.2 | 19.3 | 13.2 | 33.3 | 35.8 | 22.9 | 17.1 | 16.8 | 22.7 | 20.2 | 17.8 | 13.1 |
| Total Phosphorus | 45.5 | 6.5 | 143 | 241 | 126 | 168 | 187 | 28.3 | 181 | 220 | 222 | 242 |
| TKN | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Ammonia-Nitrogen | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrate and Nitrite | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Attachments Page 566

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Gary A Pelt
Signature of Preparer

2/5/09
Date

2009 Ash Analysis

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

**Attach this form to the corresponding Annual Report**

**Please note that your permit may contain additional parameters to be analyzed than those required to be summarized on this form.**

**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Pace Analytical Services, Inc.
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

Progress Energy Carolinas, Inc., Asheville Plant

| Parameters (mg/kg) | Sample or Composite Date | 01/06/09 | 02/02/09 | 03/05/09 | 04/14/09 | 05/12/09 | 06/18/09 | 07/01/09 | 08/13/09 | 09/08/09 | 10/06/09 | 11/12/09 | 12/09/09 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Percent Solids | 68.30% | 74.40% | 69.00% | 72.90% | 71.90% | 68.70% | 71.30% | 73.80% | 70.60% | 75.40% | 72.40% | 70.80% |
| | Arsenic | 97.4 | 51.5 | 11.6 | 47.8 | 52.5 | 70.6 | 54.4 | 71.2 | 43.9 | 79.1 | 42.2 | 118 |
| | Cadmium | <0.25 | 0.074 | <0.12 | <0.095 | 0.3 | 0.34 | <0.14 | <0.68 | 0.13 | <0.33 | <0.099 | <0.42 |
| | Chromium | 19.2 | 11.4 | 4.3 | 13.2 | 13.9 | 15.7 | 15.2 | 20.4 | 13.6 | 22.8 | 11.1 | 31.8 |
| | Copper | 40.1 | 21.8 | 15 | 29.6 | 29.9 | 33.3 | 31.7 | 41.5 | 25.8 | 40.9 | 22 | 60.2 |
| | Lead | 15.8 | 7.5 | 1.9 | 9.1 | 9.3 | 9.7 | 9.8 | 13 | 7.1 | 14.3 | 7.9 | 23 |
| | Mercury | 0.5 | 0.29 | 0.018 | 0.25 | 0.31 | 0.3 | 0.3 | 0.31 | 0.25 | 0.3 | 0.18 | 0.09 |
| | Molybdenum | 2 | 1.3 | 1.2 | 1.4 | 1.4 | 2.4 | 1.4 | <3.4 | 1.7 | <1.7 | 0.57 | <2.1 |
| | Nickel | 13 | 8.7 | 6.6 | 12.1 | 11.5 | 15.3 | 12.3 | 20.2 | 12.1 | 19.4 | 9.1 | 30.2 |
| | Selenium | 10.9 | 9 | <1.2 | 7.8 | 7.6 | 10.5 | 10.5 | 13.7 | 7.8 | 11.3 | 6.6 | 15.6 |
| | Zinc | 18.7 | 13.4 | 7.8 | 21.9 | 19 | 20.5 | 14.3 | 25.1 | 12.9 | 26.7 | 13.8 | 40.4 |
| | Total Phosphorus | 204 | 166 | 53.9 | 115 | 157 | 77.4 | 161 | 267 | 134 | 290 | 156 | 71.3 |
| | TKN | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Ammonia-Nitrogen | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Nitrate and Nitrite | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Attachments Page 567

**"I certify, under penalty of law, that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."**

Signature of Preparer

2/2/10
Date

2009 Ash Analysis

# ANNUAL RESIDUAL SAMPLING SUMMARY FORM

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Progress Energy Carolinas, Inc., Asheville Plant

**Permit Number:** WQ 0000020

**Facility Name:** Progress Energy Carolinas, Inc. Asheville Steam Plant

**NPDES # or WQ#:** WQ 0000020

**WWTP Name:** N/A

**Laboratory:**

1) Pace Analytical Services, Inc.
2) Asheville Steam Plant Lab for pH only
3)
4)
5)

**Residual Analysis Data**

| Parameters (mg/kg) | Sample or Composite Date | 01/06/09 | 02/02/09 | 03/05/09 | 04/14/09 | 05/12/09 | 06/18/09 | 07/01/09 | 08/13/09 | 09/08/09 | 10/06/09 | 11/12/09 | 12/09/09 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barium | 865 | 667 | 398 | 886 | 629 | 695 | 870 | 838 | 808 | 551 | 479 | 607 |
| | Calcium | 2250 | 2680 | 1070 | 2130 | 2520 | 4030 | 2100 | 2830 | 1820 | 2300 | 1340 | 2720 |
| | Magnesium | 905 | 566 | 319 | 685 | 771 | 978 | 797 | 1030 | 683 | 926 | 577 | 1190 |
| | Manganese | 97.9 | 63.1 | 27.6 | 78.1 | 60.4 | 97.1 | 91.9 | 120 | 75.3 | 73.4 | 49.5 | 74 |
| | Potassium | 2470 | 1340 | 644 | 1560 | 1770 | 2250 | 2110 | <3390 | 1640 | 1740 | 1300 | 2880 |
| | Silver | <1.3 | <0.36 | <0.61 | <0.48 | <0.35 | <0.73 | <0.7 | <3.4 | <0.57 | <1.7 | <0.49 | <2.1 |
| | Sodium | <1260 | <357 | <614 | <476 | <351 | <728 | <702 | <3390 | <571 | <1670 | <493 | <2080 |
| | pH (s.u.) | 7.26 | 7.2 | 7.43 | 7.44 | 7.4 | 7.8 | 7.5 | 7.5 | 7.4 | 7.3 | 7.3 | 7.1 |
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Signature of Preparer

2/2/10
Date

Attachment 8, Page 568

**Pace Analytical Services, Inc.**
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

**Pace Analytical Services, Inc.**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 27, 2010

Ms. Crystal Diedrich
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

Dear Ms. Diedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures



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**Pace Analytical Services, Inc.**
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Asheville, NC 28804
(828)254-7176

**Pace Analytical Services, Inc.**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

# CERTIFICATIONS

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

**Charlotte Certification IDs**
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84

**Asheville Certification IDs**
Connecticut Certification #: PH-0106
2225 Riverside Dr. Asheville, NC 28804
Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095
Florida/NELAP Certification #: E87648
West Virginia Certification #: 356



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Asheville, NC 28804
(828)254-7176

**Pace Analytical Services, Inc.**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## ANALYTICAL RESULTS

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

**Sample: Ash from Ash Pond** **Lab ID: 9261313001** Collected: 01/12/10 09:50 Received: 01/14/10 07:15 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **0.60** | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-38-2 | |
| Barium | **4.6** | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-39-3 | |
| Cadmium | **0.29** | mg/kg | 0.12 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-43-9 | |
| Calcium | **662** | mg/kg | 12.0 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-70-2 | |
| Chromium | **8.1** | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-47-3 | |
| Copper | **20.6** | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-50-8 | |
| Lead | **1.4** | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7439-92-1 | |
| Magnesium | **77.4** | mg/kg | 12.0 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7439-95-4 | |
| Manganese | **16.6** | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7439-96-5 | |
| Molybdenum | ND | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7439-98-7 | |
| Nickel | **1.3** | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-02-0 | |
| Potassium | ND | mg/kg | 598 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-09-7 | |
| Selenium | ND | mg/kg | 1.2 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.60 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-22-4 | |
| Sodium | ND | mg/kg | 598 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-23-5 | |
| Zinc | **19.9** | mg/kg | 1.2 | 1 | 01/22/10 10:22 | 01/26/10 01:38 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **0.29** | mg/kg | 0.033 | 5 | 01/22/10 10:45 | 01/25/10 15:40 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **31.5** | % | 0.10 | 1 | | 01/20/10 13:36 | | |
| **2540G Total Percent Solids** | Analytical Method: SM 2540G | | | | | | | |
| Total Solids | **68.5** | % | 0.10 | 1 | | 01/20/10 13:36 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **245** | mg/kg | 26.5 | 4 | | 01/26/10 16:04 | 7723-14-0 | |



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Asheville, NC 28804
(828)254-7176

**Pace Analytical Services, Inc.**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## ANALYTICAL RESULTS

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

**Sample: Ash from Ash Pond TCLP** **Lab ID: 9261313002** Collected: 01/12/10 09:50 Received: 01/14/10 07:15 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 01/15/10 17:00 | | | | | | | |
| Arsenic | **0.12** | mg/L | 0.025 | 1 | 01/19/10 14:01 | 01/20/10 04:47 | 7440-38-2 | |
| Barium | **5.7** | mg/L | 0.025 | 1 | 01/19/10 14:01 | 01/20/10 04:47 | 7440-39-3 | |
| Cadmium | ND | mg/L | 0.0050 | 1 | 01/19/10 14:01 | 01/20/10 04:47 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.025 | 1 | 01/19/10 14:01 | 01/20/10 04:47 | 7440-47-3 | |
| Lead | ND | mg/L | 0.025 | 1 | 01/19/10 14:01 | 01/20/10 04:47 | 7439-92-1 | |
| Selenium | ND | mg/L | 0.050 | 1 | 01/19/10 14:01 | 01/20/10 04:47 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 01/19/10 14:01 | 01/20/10 04:47 | 7440-22-4 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 01/15/10 17:00 | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 01/19/10 15:20 | 01/20/10 10:26 | 7439-97-6 | |



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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

QC Batch: MPRP/5701
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9261313001

METHOD BLANK: 392131
Matrix: Solid
Associated Lab Samples: 9261313001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Barium | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Cadmium | mg/kg | ND | 0.10 | 01/26/10 01:22 | |
| Calcium | mg/kg | ND | 10.0 | 01/26/10 01:22 | |
| Chromium | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Copper | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Lead | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Magnesium | mg/kg | ND | 10.0 | 01/26/10 01:22 | |
| Manganese | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Molybdenum | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Nickel | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Potassium | mg/kg | ND | 500 | 01/26/10 01:22 | |
| Selenium | mg/kg | ND | 1.0 | 01/26/10 01:22 | |
| Silver | mg/kg | ND | 0.50 | 01/26/10 01:22 | |
| Sodium | mg/kg | ND | 500 | 01/26/10 01:22 | |
| Zinc | mg/kg | ND | 1.0 | 01/26/10 01:22 | |

LABORATORY CONTROL SAMPLE: 392132

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 49.7 | 99 | 80-120 | |
| Barium | mg/kg | 50 | 49.3 | 99 | 80-120 | |
| Cadmium | mg/kg | 50 | 50.8 | 102 | 80-120 | |
| Calcium | mg/kg | 500 | 552 | 110 | 80-120 | |
| Chromium | mg/kg | 50 | 51.0 | 102 | 80-120 | |
| Copper | mg/kg | 50 | 49.6 | 99 | 80-120 | |
| Lead | mg/kg | 50 | 52.1 | 104 | 80-120 | |
| Magnesium | mg/kg | 500 | 508 | 102 | 80-120 | |
| Manganese | mg/kg | 50 | 50.1 | 100 | 80-120 | |
| Molybdenum | mg/kg | 50 | 52.3 | 105 | 80-120 | |
| Nickel | mg/kg | 50 | 50.4 | 101 | 80-120 | |
| Potassium | mg/kg | 500 | 458J | 92 | 80-120 | |
| Selenium | mg/kg | 50 | 49.1 | 98 | 80-120 | |
| Silver | mg/kg | 25 | 26.5 | 106 | 80-120 | |
| Sodium | mg/kg | 500 | 542 | 108 | 80-120 | |
| Zinc | mg/kg | 50 | 54.6 | 109 | 80-120 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

MATRIX SPIKE SAMPLE: 392133

| Parameter | Units | 9261114001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 23.1 | 2110 | 2090 | 98 | 75-125 | |
| Barium | mg/kg | 213 | 2110 | 2210 | 95 | 75-125 | |
| Cadmium | mg/kg | 13.0 | 2110 | 2090 | 98 | 75-125 | |
| Calcium | mg/kg | 28900 | 21100 | 49900 | 99 | 75-125 | |
| Chromium | mg/kg | 331 | 2110 | 2410 | 98 | 75-125 | |
| Copper | mg/kg | 853 | 2110 | 2800 | 92 | 75-125 | |
| Lead | mg/kg | 44.8 | 2110 | 2080 | 96 | 75-125 | |
| Magnesium | mg/kg | 3760 | 21100 | 24400 | 98 | 75-125 | |
| Manganese | mg/kg | 803 | 2110 | 2800 | 95 | 75-125 | |
| Molybdenum | mg/kg | ND | 2110 | 2120 | 100 | 75-125 | |
| Nickel | mg/kg | 64.8 | 2110 | 2090 | 96 | 75-125 | |
| Potassium | mg/kg | ND | 21100 | 25600 | 104 | 75-125 | |
| Selenium | mg/kg | ND | 2110 | 2090 | 99 | 75-125 | |
| Silver | mg/kg | ND | 1050 | 1090 | 103 | 75-125 | |
| Sodium | mg/kg | ND | 21100 | 34100 | 114 | 75-125 | |
| Zinc | mg/kg | 903 | 2110 | 2930 | 96 | 75-125 | |

SAMPLE DUPLICATE: 392134

| Parameter | Units | 9261313001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 0.60 | 0.59 | 1 | |
| Barium | mg/kg | 4.6 | 4.9 | 6 | |
| Cadmium | mg/kg | 0.29 | 0.34 | 17 | |
| Calcium | mg/kg | 662 | 723 | 9 | |
| Chromium | mg/kg | 8.1 | 8.7 | 7 | |
| Copper | mg/kg | 20.6 | 21.1 | 3 | |
| Lead | mg/kg | 1.4 | 1.1 | 25 | R1 |
| Magnesium | mg/kg | 77.4 | 82.1 | 6 | |
| Manganese | mg/kg | 16.6 | 17.7 | 6 | |
| Molybdenum | mg/kg | ND | .21J | | |
| Nickel | mg/kg | 1.3 | 1.4 | 12 | |
| Potassium | mg/kg | ND | 67.8J | | |
| Selenium | mg/kg | ND | ND | | |
| Silver | mg/kg | ND | .22J | | |
| Sodium | mg/kg | ND | 215J | | |
| Zinc | mg/kg | 19.9 | 21.6 | 8 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

QC Batch: MPRP/5694
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9261313002

METHOD BLANK: 391819 Matrix: Water
Associated Lab Samples: 9261313002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | 01/20/10 04:31 | |
| Barium | mg/L | ND | 0.025 | 01/20/10 04:31 | |
| Cadmium | mg/L | ND | 0.0050 | 01/20/10 04:31 | |
| Chromium | mg/L | ND | 0.025 | 01/20/10 04:31 | |
| Lead | mg/L | ND | 0.025 | 01/20/10 04:31 | |
| Selenium | mg/L | ND | 0.050 | 01/20/10 04:31 | |
| Silver | mg/L | ND | 0.025 | 01/20/10 04:31 | |

LABORATORY CONTROL SAMPLE: 391820

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.8 | 112 | 80-120 | |
| Barium | mg/L | 2.5 | 2.3 | 92 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.4 | 98 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.5 | 101 | 80-120 | |
| Lead | mg/L | 2.5 | 2.3 | 90 | 80-120 | |
| Selenium | mg/L | 2.5 | 2.8 | 111 | 80-120 | |
| Silver | mg/L | 1.2 | 1.4 | 112 | 80-120 | |

MATRIX SPIKE SAMPLE: 391821

| Parameter | Units | 9261238001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 2.5 | 2.6 | 102 | 75-125 | |
| Barium | mg/L | 93.5 ug/L | 2.5 | 2.2 | 85 | 75-125 | |
| Cadmium | mg/L | 5.05 ug/L | 2.5 | 2.2 | 90 | 75-125 | |
| Chromium | mg/L | ND | 2.5 | 2.3 | 93 | 75-125 | |
| Lead | mg/L | ND | 2.5 | 2.1 | 83 | 75-125 | |
| Selenium | mg/L | ND | 2.5 | 2.6 | 102 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 1.3 | 102 | 75-125 | |

SAMPLE DUPLICATE: 391822

| Parameter | Units | 9261313002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | 0.12 | 0.16 | 25 | R3 |
| Barium | mg/L | 5.7 | 6.8 | 18 | |
| Cadmium | mg/L | ND | ND | | |
| Chromium | mg/L | ND | .015J | | |
| Lead | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

SAMPLE DUPLICATE: 391822

| Parameter | Units | 9261313002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Selenium | mg/L | ND | 0.058 | | |
| Silver | mg/L | ND | .00085J | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

QC Batch: MERP/2615
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9261313002

METHOD BLANK: 391887
Matrix: Water
Associated Lab Samples: 9261313002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 01/20/10 10:16 | |

LABORATORY CONTROL SAMPLE: 391888

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | .0025 | 0.0024 | 95 | 80-120 | |

MATRIX SPIKE SAMPLE: 391889

| Parameter | Units | 9261238001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | .0025 | 0.0016 | 64 | 75-125 | M0 |

SAMPLE DUPLICATE: 391890

| Parameter | Units | 9261313002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

QC Batch: MERP/2622
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 9261313001

METHOD BLANK: 393540 Matrix: Solid
Associated Lab Samples: 9261313001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 01/25/10 14:45 | |

LABORATORY CONTROL SAMPLE: 393541

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.062 | 93 | 80-120 | |

MATRIX SPIKE SAMPLE: 393542

| Parameter | Units | 9261114001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 1.0 | 2.6 | 3.0 | 78 | 75-125 | |

SAMPLE DUPLICATE: 393543

| Parameter | Units | 9261313001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.29 | 0.31 | 8 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

QC Batch: PMST/2982
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9261313001

SAMPLE DUPLICATE: 392148

| Parameter | Units | 9261086001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | ND | ND | | |

SAMPLE DUPLICATE: 392149

| Parameter | Units | 9261501007 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 15.5 | 14.9 | 4 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

QC Batch: WETA/6645
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9261313001

METHOD BLANK: 394455 Matrix: Solid
Associated Lab Samples: 9261313001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | 01/26/10 15:58 | |

LABORATORY CONTROL SAMPLE: 394456

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 21.0 | 105 | 90-110 | |

MATRIX SPIKE SAMPLE: 394457

| Parameter | Units | 9261114001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 27700 | 2250 | 32200 | 199 | 90-110 | M0 |

SAMPLE DUPLICATE: 394458

| Parameter | Units | 9261313001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 245 | 257 | 5 | |



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# QUALIFIERS

Project: Ponded Ash for Reuse 1/12/10
Pace Project No.: 9261313

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## ANALYTE QUALIFIERS

| | |
|---|---|
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| R1 | RPD value was outside control limits. |
| R3 | RPD value was outside control limits due to uncertainty of values at or near the PRL. |



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February 25, 2010

Ms. Crystal Diedrich
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: POND ASH 02/12
Pace Project No.: 9263191

Dear Ms. Diedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**



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# CERTIFICATIONS

Project: POND ASH 02/12
Pace Project No.: 9263191

**Charlotte Certification IDs**
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213

**Asheville Certification IDs**
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
Virginia Certification #: 00072
West Virginia Certification #: 356
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Connecticut Certification #: PH-0106
Massachusetts Certification #: M-NC030



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# ANALYTICAL RESULTS

Project: POND ASH 02/12
Pace Project No.: 9263191

**Sample: ASH FROM ASH POND** **Lab ID: 9263191001** Collected: 02/11/10 12:20 Received: 02/12/10 10:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **64.7** | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-38-2 | |
| Barium | **556** | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-39-3 | |
| Cadmium | **0.24** | mg/kg | 0.11 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-43-9 | |
| Calcium | **1940** | mg/kg | 10.8 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-70-2 | |
| Chromium | **18.5** | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-47-3 | |
| Copper | **33.5** | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-50-8 | |
| Lead | **10.7** | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7439-92-1 | |
| Magnesium | **827** | mg/kg | 10.8 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7439-95-4 | |
| Manganese | **55.0** | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7439-96-5 | |
| Molybdenum | **1.1** | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7439-98-7 | |
| Nickel | **13.8** | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-02-0 | |
| Potassium | **2230** | mg/kg | 542 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-09-7 | |
| Selenium | **12.0** | mg/kg | 1.1 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.54 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-22-4 | |
| Sodium | ND | mg/kg | 542 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-23-5 | |
| Zinc | **19.8** | mg/kg | 1.1 | 1 | 02/17/10 11:50 | 02/18/10 12:54 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **0.34** | mg/kg | 0.034 | 5 | 02/16/10 15:45 | 02/17/10 15:00 | 7439-97-6 | M0 |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **29.1** | % | 0.10 | 1 | | 02/16/10 13:10 | | |
| **2540G Total Percent Solids** | Analytical Method: SM 2540G | | | | | | | |
| Total Solids | **70.9** | % | 0.10 | 1 | | 02/16/10 13:10 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **251** | mg/kg | 20.1 | 2 | | 02/22/10 14:33 | 7723-14-0 | |



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## ANALYTICAL RESULTS

Project: POND ASH 02/12
Pace Project No.: 9263191

**Sample: ASH FROM ASH POND TCLP** **Lab ID: 9263191002** Collected: 02/11/10 12:20 Received: 02/12/10 10:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 02/16/10 16:30 | | | | | | | |
| Arsenic | **0.11** | mg/L | 0.025 | 1 | 02/18/10 11:00 | 02/19/10 13:54 | 7440-38-2 | |
| Barium | **5.3** | mg/L | 0.025 | 1 | 02/18/10 11:00 | 02/19/10 13:54 | 7440-39-3 | |
| Cadmium | ND | mg/L | 0.0050 | 1 | 02/18/10 11:00 | 02/19/10 13:54 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.025 | 1 | 02/18/10 11:00 | 02/19/10 13:54 | 7440-47-3 | |
| Lead | ND | mg/L | 0.025 | 1 | 02/18/10 11:00 | 02/19/10 13:54 | 7439-92-1 | |
| Selenium | **0.092** | mg/L | 0.050 | 1 | 02/18/10 11:00 | 02/19/10 13:54 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 02/18/10 11:00 | 02/19/10 13:54 | 7440-22-4 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 02/16/10 16:30 | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 02/17/10 14:30 | 02/18/10 14:31 | 7439-97-6 | |



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(704)875-9092

## QUALITY CONTROL DATA

Project: POND ASH 02/12
Pace Project No.: 9263191

QC Batch: MPRP/5829
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9263191001

METHOD BLANK: 402996
Matrix: Solid
Associated Lab Samples: 9263191001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Barium | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Cadmium | mg/kg | ND | 0.10 | 02/18/10 11:05 | |
| Calcium | mg/kg | ND | 10.0 | 02/18/10 11:05 | |
| Chromium | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Copper | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Lead | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Magnesium | mg/kg | ND | 10.0 | 02/18/10 11:05 | |
| Manganese | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Molybdenum | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Nickel | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Potassium | mg/kg | ND | 500 | 02/18/10 11:05 | |
| Selenium | mg/kg | ND | 1.0 | 02/18/10 11:05 | |
| Silver | mg/kg | ND | 0.50 | 02/18/10 11:05 | |
| Sodium | mg/kg | ND | 500 | 02/18/10 11:05 | |
| Zinc | mg/kg | ND | 1.0 | 02/18/10 11:05 | |

LABORATORY CONTROL SAMPLE: 402997

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 49.0 | 98 | 80-120 | |
| Barium | mg/kg | 50 | 48.2 | 96 | 80-120 | |
| Cadmium | mg/kg | 50 | 48.5 | 97 | 80-120 | |
| Calcium | mg/kg | 500 | 502 | 100 | 80-120 | |
| Chromium | mg/kg | 50 | 49.7 | 99 | 80-120 | |
| Copper | mg/kg | 50 | 49.1 | 98 | 80-120 | |
| Lead | mg/kg | 50 | 49.0 | 98 | 80-120 | |
| Magnesium | mg/kg | 500 | 496 | 99 | 80-120 | |
| Manganese | mg/kg | 50 | 48.4 | 97 | 80-120 | |
| Molybdenum | mg/kg | 50 | 47.0 | 94 | 80-120 | |
| Nickel | mg/kg | 50 | 48.6 | 97 | 80-120 | |
| Potassium | mg/kg | 500 | 503 | 101 | 80-120 | |
| Selenium | mg/kg | 50 | 48.0 | 96 | 80-120 | |
| Silver | mg/kg | 25 | 23.4 | 94 | 80-120 | |
| Sodium | mg/kg | 500 | 506 | 101 | 80-120 | |
| Zinc | mg/kg | 50 | 49.1 | 98 | 80-120 | |



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## QUALITY CONTROL DATA

Project: POND ASH 02/12
Pace Project No.: 9263191

MATRIX SPIKE SAMPLE: 402998

| Parameter | Units | 9263081002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 34.2 | 35.1 | 102 | 75-125 | |
| Barium | mg/kg | ND | 34.2 | 32.1 | 94 | 75-125 | |
| Cadmium | mg/kg | ND | 34.2 | 31.1 | 91 | 75-125 | |
| Calcium | mg/kg | ND | 342 | 314 | 92 | 75-125 | |
| Chromium | mg/kg | 2.72 ug/g | 34.2 | 34.8 | 94 | 75-125 | |
| Copper | mg/kg | 2.54 ug/g | 34.2 | 35.8 | 97 | 75-125 | |
| Lead | mg/kg | ND | 34.2 | 30.1 | 88 | 75-125 | |
| Magnesium | mg/kg | ND | 342 | 310 | 90 | 75-125 | |
| Manganese | mg/kg | ND | 34.2 | 31.4 | 92 | 75-125 | |
| Molybdenum | mg/kg | 0.604 ug/g | 34.2 | 32.0 | 92 | 75-125 | |
| Nickel | mg/kg | ND | 34.2 | 31.3 | 91 | 75-125 | |
| Potassium | mg/kg | ND | 342 | 358 | 104 | 75-125 | |
| Selenium | mg/kg | ND | 34.2 | 40.8 | 117 | 75-125 | |
| Silver | mg/kg | ND | 17.1 | 14.7 | 86 | 75-125 | |
| Sodium | mg/kg | 532 ug/g | 342 | 921 | 114 | 75-125 | |
| Zinc | mg/kg | ND | 34.2 | 30.8 | 90 | 75-125 | |

SAMPLE DUPLICATE: 402999

| Parameter | Units | 9263081003 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | ND | | |
| Barium | mg/kg | ND | ND | | |
| Cadmium | mg/kg | ND | ND | | |
| Calcium | mg/kg | ND | ND | | |
| Chromium | mg/kg | ND | .053J | | |
| Copper | mg/kg | ND | ND | | |
| Lead | mg/kg | ND | ND | | |
| Magnesium | mg/kg | 61.7 ug/g | 86.1 | 33 | R1 |
| Manganese | mg/kg | 6.86 ug/g | 8.2 | 18 | |
| Molybdenum | mg/kg | ND | .023J | | |
| Nickel | mg/kg | ND | ND | | |
| Potassium | mg/kg | ND | 8.1J | | |
| Selenium | mg/kg | ND | 0.51 | | |
| Silver | mg/kg | ND | ND | | |
| Sodium | mg/kg | ND | 1.8J | | |
| Zinc | mg/kg | ND | ND | | |



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## QUALITY CONTROL DATA

Project: POND ASH 02/12
Pace Project No.: 9263191

QC Batch: MPRP/5841
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9263191002

METHOD BLANK: 403730 Matrix: Water
Associated Lab Samples: 9263191002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | 02/19/10 13:14 | |
| Barium | mg/L | ND | 0.025 | 02/19/10 13:14 | |
| Cadmium | mg/L | ND | 0.0050 | 02/19/10 13:14 | |
| Chromium | mg/L | ND | 0.025 | 02/19/10 13:14 | |
| Lead | mg/L | ND | 0.025 | 02/19/10 13:14 | |
| Selenium | mg/L | ND | 0.050 | 02/19/10 13:14 | |
| Silver | mg/L | ND | 0.025 | 02/19/10 13:14 | |

LABORATORY CONTROL SAMPLE: 403731

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.9 | 114 | 80-120 | |
| Barium | mg/L | 2.5 | 2.6 | 103 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.6 | 102 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.6 | 103 | 80-120 | |
| Lead | mg/L | 2.5 | 2.4 | 97 | 80-120 | |
| Selenium | mg/L | 2.5 | 2.9 | 117 | 80-120 | |
| Silver | mg/L | 1.2 | 1.3 | 101 | 80-120 | |

MATRIX SPIKE SAMPLE: 403732

| Parameter | Units | 9263253001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 2.5 | 2.7 | 106 | 75-125 | |
| Barium | mg/L | 98.5 ug/L | 2.5 | 2.5 | 95 | 75-125 | |
| Cadmium | mg/L | ND | 2.5 | 2.4 | 94 | 75-125 | |
| Chromium | mg/L | ND | 2.5 | 2.4 | 95 | 75-125 | |
| Lead | mg/L | ND | 2.5 | 2.3 | 90 | 75-125 | |
| Selenium | mg/L | ND | 2.5 | 2.6 | 106 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 1.2 | 94 | 75-125 | |

SAMPLE DUPLICATE: 403733

| Parameter | Units | 9263253002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | 42.6 ug/L | 0.037 | 14 | |
| Barium | mg/L | 82.0 ug/L | 0.086 | 4 | |
| Cadmium | mg/L | ND | ND | | |
| Chromium | mg/L | ND | ND | | |
| Lead | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: POND ASH 02/12
Pace Project No.: 9263191

SAMPLE DUPLICATE: 403733

| Parameter | Units | 9263253002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Selenium | mg/L | ND | ND | | |
| Silver | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: POND ASH 02/12
Pace Project No.: 9263191

QC Batch: MERP/2663
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9263191002

METHOD BLANK: 403615 Matrix: Water
Associated Lab Samples: 9263191002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 02/18/10 16:33 | |

LABORATORY CONTROL SAMPLE: 403616

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | .0025 | 0.0028 | 112 | 80-120 | |

MATRIX SPIKE SAMPLE: 403617

| Parameter | Units | 9263253001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | .0025 | 0.0032 | 123 | 75-125 | |

SAMPLE DUPLICATE: 403618

| Parameter | Units | 9263253002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: POND ASH 02/12
Pace Project No.: 9263191

QC Batch: MERP/2662
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 9263191001

METHOD BLANK: 402970
Matrix: Solid
Associated Lab Samples: 9263191001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 02/17/10 14:16 | |

LABORATORY CONTROL SAMPLE: 402971

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.069 | 104 | 80-120 | |

MATRIX SPIKE SAMPLE: 402972

| Parameter | Units | 9263191001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.34 | .094 | 0.40 | 60 | 75-125 | M0 |

SAMPLE DUPLICATE: 402973

| Parameter | Units | 9263228002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.0082 | 0.0079 | 4 | |



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## QUALITY CONTROL DATA

Project: POND ASH 02/12
Pace Project No.: 9263191

QC Batch: PMST/3019
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9263191001

SAMPLE DUPLICATE: 402762

| Parameter | Units | 9263181011 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 4.5 | 4.8 | 6 | |

SAMPLE DUPLICATE: 402763

| Parameter | Units | 9263228004 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 15.4 | 15.6 | 2 | |



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## QUALITY CONTROL DATA

Project: POND ASH 02/12
Pace Project No.: 9263191

QC Batch: WETA/6795
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9263191001

METHOD BLANK: 405496 Matrix: Solid
Associated Lab Samples: 9263191001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | 02/22/10 14:15 | |

LABORATORY CONTROL SAMPLE: 405497

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 18.6 | 93 | 90-110 | |

MATRIX SPIKE SAMPLE: 405498

| Parameter | Units | 9262778001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 5520 | 158 | 10700 | 1206 | 90-110 | M0 |

SAMPLE DUPLICATE: 405499

| Parameter | Units | 9262785001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 15500 | 14900 | 3 | |



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# QUALIFIERS

Project: POND ASH 02/12
Pace Project No.: 9263191

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## ANALYTE QUALIFIERS

| | |
|---|---|
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| R1 | RPD value was outside control limits. |



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March 31, 2010

Ms. Crystal Diedrich
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: PONDED ASH 03/17
Pace Project No.: 9265463

Dear Ms. Diedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures



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# CERTIFICATIONS

Project: PONDED ASH 03/17
Pace Project No.: 9265463

**Charlotte Certification IDs**
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213

**Asheville Certification IDs**
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Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
Virginia Certification #: 00072
West Virginia Certification #: 356
Florida/NELAP Certification #: E87648



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## ANALYTICAL RESULTS

Project: PONDED ASH 03/17
Pace Project No.: 9265463

**Sample: ASH FROM ASH POND** **Lab ID: 9265463001** Collected: 03/16/10 13:17 Received: 03/17/10 07:55 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **84.9** | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-38-2 | D3 |
| Barium | **609** | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-39-3 | D3 |
| Cadmium | **0.70** | mg/kg | 0.13 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-43-9 | D3 |
| Calcium | **1930** | mg/kg | 13.2 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-70-2 | D3 |
| Chromium | **19.9** | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-47-3 | D3 |
| Copper | **35.5** | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-50-8 | D3 |
| Lead | **17.4** | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7439-92-1 | D3 |
| Magnesium | **930** | mg/kg | 13.2 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7439-95-4 | D3 |
| Manganese | **60.1** | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7439-96-5 | D3 |
| Molybdenum | **1.3** | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7439-98-7 | D3 |
| Nickel | **14.4** | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-02-0 | D3 |
| Potassium | **2130** | mg/kg | 661 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-09-7 | D3 |
| Selenium | **9.2** | mg/kg | 1.3 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7782-49-2 | D3 |
| Silver | ND | mg/kg | 0.66 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-22-4 | D3 |
| Sodium | **814** | mg/kg | 661 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-23-5 | D3 |
| Zinc | **31.7** | mg/kg | 1.3 | 2 | 03/24/10 13:53 | 03/30/10 14:33 | 7440-66-6 | D3 |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **0.33** | mg/kg | 0.033 | 5 | 03/25/10 11:12 | 03/25/10 15:27 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **24.3** | % | 0.10 | 1 | | 03/26/10 08:49 | | |
| **2540G Total Percent Solids** | Analytical Method: SM 2540G | | | | | | | |
| Total Solids | **75.7** | % | 0.10 | 1 | | 03/26/10 08:49 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **189** | mg/kg | 10.2 | 2 | | 03/29/10 09:47 | 7723-14-0 | M0 |



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## ANALYTICAL RESULTS

Project: PONDED ASH 03/17
Pace Project No.: 9265463

**Sample: ASH FROM ASH POND TCLP** **Lab ID: 9265463002** Collected: 03/16/10 13:17 Received: 03/17/10 07:55 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 03/26/10 12:25 | | | | | | | |
| Arsenic | **0.039** | mg/L | 0.025 | 1 | 03/29/10 15:09 | 03/30/10 04:18 | 7440-38-2 | |
| Barium | **6.0** | mg/L | 0.025 | 1 | 03/29/10 15:09 | 03/30/10 04:18 | 7440-39-3 | |
| Cadmium | ND | mg/L | 0.0050 | 1 | 03/29/10 15:09 | 03/30/10 04:18 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.025 | 1 | 03/29/10 15:09 | 03/30/10 04:18 | 7440-47-3 | |
| Lead | ND | mg/L | 0.025 | 1 | 03/29/10 15:09 | 03/30/10 04:18 | 7439-92-1 | |
| Selenium | ND | mg/L | 0.050 | 1 | 03/29/10 15:09 | 03/30/10 04:18 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 03/29/10 15:09 | 03/30/10 04:18 | 7440-22-4 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 03/26/10 12:25 | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 03/29/10 17:20 | 03/30/10 12:09 | 7439-97-6 | |



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(704)875-9092

## QUALITY CONTROL DATA

Project: PONDED ASH 03/17
Pace Project No.: 9265463

QC Batch: MPRP/6039
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9265463001

METHOD BLANK: 419197
Matrix: Solid
Associated Lab Samples: 9265463001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Barium | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Cadmium | mg/kg | ND | 0.10 | 03/29/10 16:42 | |
| Calcium | mg/kg | ND | 10.0 | 03/29/10 16:42 | |
| Chromium | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Copper | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Lead | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Magnesium | mg/kg | ND | 10.0 | 03/29/10 16:42 | |
| Manganese | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Molybdenum | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Nickel | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Potassium | mg/kg | ND | 500 | 03/29/10 16:42 | |
| Selenium | mg/kg | ND | 1.0 | 03/29/10 16:42 | |
| Silver | mg/kg | ND | 0.50 | 03/29/10 16:42 | |
| Sodium | mg/kg | ND | 500 | 03/29/10 16:42 | |
| Zinc | mg/kg | ND | 1.0 | 03/29/10 16:42 | |

LABORATORY CONTROL SAMPLE: 419198

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 52.2 | 104 | 80-120 | |
| Barium | mg/kg | 50 | 50.5 | 101 | 80-120 | |
| Cadmium | mg/kg | 50 | 52.8 | 106 | 80-120 | |
| Calcium | mg/kg | 500 | 536 | 107 | 80-120 | |
| Chromium | mg/kg | 50 | 52.5 | 105 | 80-120 | |
| Copper | mg/kg | 50 | 51.1 | 102 | 80-120 | |
| Lead | mg/kg | 50 | 49.5 | 99 | 80-120 | |
| Magnesium | mg/kg | 500 | 529 | 106 | 80-120 | |
| Manganese | mg/kg | 50 | 53.2 | 106 | 80-120 | |
| Molybdenum | mg/kg | 50 | 52.1 | 104 | 80-120 | |
| Nickel | mg/kg | 50 | 52.7 | 105 | 80-120 | |
| Potassium | mg/kg | 500 | 477J | 95 | 80-120 | |
| Selenium | mg/kg | 50 | 50.5 | 101 | 80-120 | |
| Silver | mg/kg | 25 | 25.9 | 104 | 80-120 | |
| Sodium | mg/kg | 500 | 476J | 95 | 80-120 | |
| Zinc | mg/kg | 50 | 59.3 | 119 | 80-120 | |



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(704)875-9092

## QUALITY CONTROL DATA

Project: PONDED ASH 03/17
Pace Project No.: 9265463

MATRIX SPIKE SAMPLE: 419288

| Parameter | Units | 9265452007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 46.2 | 38 | 86.1 | 105 | 75-125 | |
| Barium | mg/kg | 396 | 38 | 420 | 61 | 75-125 | M0 |
| Cadmium | mg/kg | 147 | 38 | 168 | 53 | 75-125 | M0 |
| Calcium | mg/kg | 65000 | 380 | 78000 | 3428 | 75-125 | M0 |
| Chromium | mg/kg | 194 | 38 | 220 | 70 | 75-125 | M0 |
| Copper | mg/kg | 1340 | 38 | 1280 | -150 | 75-125 | M0 |
| Lead | mg/kg | 47400 | 38 | 45700 | -4653 | 75-125 | M0 |
| Magnesium | mg/kg | 62100 | 380 | 93200 | 8188 | 75-125 | M0 |
| Manganese | mg/kg | 4990 | 38 | 9860 | 12837 | 75-125 | M0 |
| Molybdenum | mg/kg | 25.2 | 38 | 56.3 | 82 | 75-125 | |
| Nickel | mg/kg | 62.2 | 38 | 94.8 | 86 | 75-125 | |
| Potassium | mg/kg | 14200 | 380 | 6930J | -1908 | 75-125 | M0 |
| Selenium | mg/kg | 15.6 | 38 | 50.7 | 92 | 75-125 | |
| Silver | mg/kg | 59.8 | 18.9 | 83.6 | 125 | 75-125 | |
| Sodium | mg/kg | 6630 | 380 | 7100 | 124 | 75-125 | |
| Zinc | mg/kg | 8420 | 38 | 58400 | 131805 | 75-125 | M0 |

SAMPLE DUPLICATE: 419289

| Parameter | Units | 9265452008 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 23.0 | 25.4 | 10 | |
| Barium | mg/kg | 248 | 250 | 1 | |
| Cadmium | mg/kg | 60.6 | 59.5 | 2 | |
| Calcium | mg/kg | 33000 | 46500 | 34 | R1 |
| Chromium | mg/kg | 139 | 123 | 13 | |
| Copper | mg/kg | 918 | 877 | 5 | |
| Lead | mg/kg | 14000 | 13800 | 1 | |
| Magnesium | mg/kg | 38500 | 57800 | 40 | R1 |
| Manganese | mg/kg | 2580 | 4680 | 58 | R1 |
| Molybdenum | mg/kg | 18.5 | 19.1 | 3 | |
| Nickel | mg/kg | 69.8 | 67.4 | 4 | |
| Potassium | mg/kg | 5490 | 5270 | 4 | |
| Selenium | mg/kg | 6.3 | 7.0 | 11 | |
| Silver | mg/kg | 17.2 | 16.5 | 4 | |
| Sodium | mg/kg | 3160 | 3080 | 3 | |
| Zinc | mg/kg | 4880 | 28000 | 141 | R1 |



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## QUALITY CONTROL DATA

Project: PONDED ASH 03/17
Pace Project No.: 9265463

QC Batch: MPRP/6065
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9265463002

METHOD BLANK: 421593 Matrix: Water
Associated Lab Samples: 9265463002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | 03/30/10 03:49 | |
| Barium | mg/L | ND | 0.025 | 03/30/10 03:49 | |
| Cadmium | mg/L | ND | 0.0050 | 03/30/10 03:49 | |
| Chromium | mg/L | ND | 0.025 | 03/30/10 03:49 | |
| Lead | mg/L | ND | 0.025 | 03/30/10 03:49 | |
| Selenium | mg/L | ND | 0.050 | 03/30/10 03:49 | |
| Silver | mg/L | ND | 0.025 | 03/30/10 03:49 | |

LABORATORY CONTROL SAMPLE: 421594

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.4 | 94 | 80-120 | |
| Barium | mg/L | 2.5 | 2.2 | 89 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.3 | 91 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.4 | 95 | 80-120 | |
| Lead | mg/L | 2.5 | 2.1 | 84 | 80-120 | |
| Selenium | mg/L | 2.5 | 2.4 | 97 | 80-120 | |
| Silver | mg/L | 1.2 | 1.2 | 99 | 80-120 | |

MATRIX SPIKE SAMPLE: 421595

| Parameter | Units | 9265463002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | 0.039 | 2.5 | 2.2 | 87 | 75-125 | |
| Barium | mg/L | 6.0 | 2.5 | 7.5 | 59 | 75-125 | M0 |
| Cadmium | mg/L | ND | 2.5 | 2.1 | 84 | 75-125 | |
| Chromium | mg/L | ND | 2.5 | 2.2 | 87 | 75-125 | |
| Lead | mg/L | ND | 2.5 | 1.9 | 77 | 75-125 | |
| Selenium | mg/L | ND | 2.5 | 2.3 | 91 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 1.1 | 91 | 75-125 | |

SAMPLE DUPLICATE: 421596

| Parameter | Units | 9265509001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | ND | | |
| Barium | mg/L | 0.038 | 0.037 | 4 | |
| Cadmium | mg/L | ND | ND | | |
| Chromium | mg/L | ND | .0056J | | |
| Lead | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: PONDED ASH 03/17
Pace Project No.: 9265463

SAMPLE DUPLICATE: 421596

| Parameter | Units | 9265509001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Selenium | mg/L | ND | ND | | |
| Silver | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: PONDED ASH 03/17
Pace Project No.: 9265463

QC Batch: MERP/2736
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9265463002

METHOD BLANK: 421597
Matrix: Water
Associated Lab Samples: 9265463002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 03/30/10 12:04 | |

LABORATORY CONTROL SAMPLE: 421598

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | .0025 | 0.0026 | 104 | 80-120 | |

MATRIX SPIKE SAMPLE: 421599

| Parameter | Units | 9265463002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | .0025 | 0.0024 | 94 | 75-125 | |

SAMPLE DUPLICATE: 421600

| Parameter | Units | 9265509001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: PONDED ASH 03/17
Pace Project No.: 9265463

QC Batch: MERP/2730
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 9265463001

METHOD BLANK: 419829 Matrix: Solid
Associated Lab Samples: 9265463001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 03/25/10 14:17 | |

LABORATORY CONTROL SAMPLE: 419830

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.061 | 92 | 80-120 | |

MATRIX SPIKE SAMPLE: 419831

| Parameter | Units | 9265497005 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.053 | .071 | 0.099 | 65 | 75-125 | M0 |

SAMPLE DUPLICATE: 419832

| Parameter | Units | 9265497006 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.023 | 0.019 | 21 | R1 |



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## QUALITY CONTROL DATA

Project: PONDED ASH 03/17
Pace Project No.: 9265463

QC Batch: PMST/3090
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9265463001

SAMPLE DUPLICATE: 419927

| Parameter | Units | 9265463001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 24.3 | 24.8 | 2 | |

SAMPLE DUPLICATE: 419928

| Parameter | Units | 9265879003 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 9.4 | 10.2 | 8 | |



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## QUALITY CONTROL DATA

Project: PONDED ASH 03/17
Pace Project No.: 9265463

QC Batch: WETA/7015
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9265463001

METHOD BLANK: 421298
Matrix: Solid
Associated Lab Samples: 9265463001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | 03/29/10 09:27 | |

LABORATORY CONTROL SAMPLE: 421299

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 20.0 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 421300

| Parameter | Units | 9265463001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 189 | 69.5 | 240 | 74 | 90-110 | M0 |

SAMPLE DUPLICATE: 421301

| Parameter | Units | 9265509001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 2160 | 2330 | 8 | |



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# QUALIFIERS

Project: PONDED ASH 03/17
Pace Project No.: 9265463

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| R1 | RPD value was outside control limits. |



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May 10, 2010

Ms. Crystal Diedrich
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

Dear Ms. Diedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**



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## CERTIFICATIONS

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

**Charlotte Certification IDs**
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
Connecticut Certification #: PH-0104
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 99006003
South Carolina Certification #: 99006001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706

**Asheville Certification IDs**
Connecticut Certification #: PH-0106
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Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 9903001
South Carolina Bioassay Certification #: 9903002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095
Florida/NELAP Certification #: E87648
West Virginia Certification #: 356



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## ANALYTICAL RESULTS

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

**Sample: Ash from Ash Pond** **Lab ID: 9267276001** Collected: 04/13/10 11:45 Received: 04/14/10 08:40 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **102** | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-38-2 | D3 |
| Barium | **858** | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-39-3 | D3 |
| Cadmium | ND | mg/kg | 0.25 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-43-9 | D3 |
| Calcium | **2770** | mg/kg | 25.2 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-70-2 | D3 |
| Chromium | **19.4** | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-47-3 | D3 |
| Copper | **49.6** | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-50-8 | D3 |
| Lead | **17.4** | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7439-92-1 | D3 |
| Magnesium | **1200** | mg/kg | 25.2 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7439-95-4 | D3 |
| Manganese | **58.9** | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7439-96-5 | D3 |
| Molybdenum | **2.1** | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7439-98-7 | D3 |
| Nickel | **17.8** | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-02-0 | D3 |
| Potassium | **3190** | mg/kg | 1260 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-09-7 | D3 |
| Selenium | **12.6** | mg/kg | 2.5 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7782-49-2 | D3 |
| Silver | ND | mg/kg | 1.3 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-22-4 | D3 |
| Sodium | ND | mg/kg | 1260 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-23-5 | D3 |
| Zinc | **26.7** | mg/kg | 2.5 | 2 | 04/21/10 10:00 | 04/22/10 15:07 | 7440-66-6 | D3 |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **0.32** | mg/kg | 0.0055 | 1 | 04/15/10 12:51 | 04/15/10 17:11 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **26.5** | % | 0.10 | 1 | | 04/21/10 13:25 | | |
| **2540G Total Percent Solids** | Analytical Method: SM 2540G | | | | | | | |
| Total Solids | **73.6** | % | 0.10 | 1 | | 04/21/10 13:25 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **289** | mg/kg | 20.9 | 2 | | 04/20/10 12:21 | 7723-14-0 | |



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(704)875-9092

## ANALYTICAL RESULTS

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

**Sample: Ash from Ash Pond TCLP** **Lab ID: 9267276002** Collected: 04/13/10 11:45 Received: 04/14/10 08:40 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 04/22/10 18:25 | | | | | | | |
| Arsenic | **0.15** | mg/L | 0.025 | 1 | 04/24/10 12:45 | 04/26/10 13:00 | 7440-38-2 | |
| Barium | **3.0** | mg/L | 0.025 | 1 | 04/24/10 12:45 | 04/26/10 13:00 | 7440-39-3 | |
| Cadmium | ND | mg/L | 0.0050 | 1 | 04/24/10 12:45 | 04/26/10 13:00 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.025 | 1 | 04/24/10 12:45 | 04/26/10 13:00 | 7440-47-3 | |
| Lead | ND | mg/L | 0.025 | 1 | 04/24/10 12:45 | 04/26/10 13:00 | 7439-92-1 | |
| Selenium | **0.15** | mg/L | 0.050 | 1 | 04/24/10 12:45 | 04/26/10 13:00 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 04/24/10 12:45 | 04/26/10 13:00 | 7440-22-4 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 04/22/10 18:25 | | | | | | | |
| Mercury | **0.00022** | mg/L | 0.00020 | 1 | 04/24/10 13:05 | 04/26/10 13:03 | 7439-97-6 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

QC Batch: MPRP/6181
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9267276001

METHOD BLANK: 431473
Matrix: Solid
Associated Lab Samples: 9267276001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Barium | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Cadmium | mg/kg | ND | 0.10 | 04/21/10 17:34 | |
| Calcium | mg/kg | ND | 10.0 | 04/21/10 17:34 | |
| Chromium | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Copper | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Lead | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Magnesium | mg/kg | ND | 10.0 | 04/21/10 17:34 | |
| Manganese | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Molybdenum | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Nickel | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Potassium | mg/kg | ND | 500 | 04/21/10 17:34 | |
| Selenium | mg/kg | ND | 1.0 | 04/21/10 17:34 | |
| Silver | mg/kg | ND | 0.50 | 04/21/10 17:34 | |
| Sodium | mg/kg | ND | 500 | 04/21/10 17:34 | |
| Zinc | mg/kg | ND | 1.0 | 04/21/10 17:34 | |

LABORATORY CONTROL SAMPLE: 431474

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 49.4 | 99 | 80-120 | |
| Barium | mg/kg | 50 | 52.2 | 104 | 80-120 | |
| Cadmium | mg/kg | 50 | 49.4 | 99 | 80-120 | |
| Calcium | mg/kg | 500 | 477 | 95 | 80-120 | |
| Chromium | mg/kg | 50 | 50.2 | 100 | 80-120 | |
| Copper | mg/kg | 50 | 52.2 | 104 | 80-120 | |
| Lead | mg/kg | 50 | 50.0 | 100 | 80-120 | |
| Magnesium | mg/kg | 500 | 495 | 99 | 80-120 | |
| Manganese | mg/kg | 50 | 51.4 | 103 | 80-120 | |
| Molybdenum | mg/kg | 50 | 50.6 | 101 | 80-120 | |
| Nickel | mg/kg | 50 | 50.6 | 101 | 80-120 | |
| Potassium | mg/kg | 500 | 476J | 95 | 80-120 | |
| Selenium | mg/kg | 50 | 49.5 | 99 | 80-120 | |
| Silver | mg/kg | 25 | 22.9 | 92 | 80-120 | |
| Sodium | mg/kg | 500 | 489J | 98 | 80-120 | |
| Zinc | mg/kg | 50 | 50.0 | 100 | 80-120 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

MATRIX SPIKE SAMPLE: 431475

| Parameter | Units | 9267486001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 2.5 | 54.2 | 50.9 | 89 | 75-125 | |
| Barium | mg/kg | 48.2 | 54.2 | 95.5 | 87 | 75-125 | |
| Cadmium | mg/kg | 1.3 | 54.2 | 49.0 | 88 | 75-125 | |
| Calcium | mg/kg | 9410 | 542 | 1590 | -1444 | 75-125 | M0 |
| Chromium | mg/kg | 25.6 | 54.2 | 69.0 | 80 | 75-125 | |
| Copper | mg/kg | 56.2 | 54.2 | 91.7 | 66 | 75-125 | M0 |
| Lead | mg/kg | 30.4 | 54.2 | 69.5 | 72 | 75-125 | M0 |
| Magnesium | mg/kg | 6630 | 542 | 1700 | -910 | 75-125 | M0 |
| Manganese | mg/kg | 264 | 54.2 | 328 | 119 | 75-125 | |
| Molybdenum | mg/kg | 3.1 | 54.2 | 50.2 | 87 | 75-125 | |
| Nickel | mg/kg | 19.5 | 54.2 | 69.9 | 93 | 75-125 | |
| Potassium | mg/kg | ND | 542 | 931 | 109 | 75-125 | |
| Selenium | mg/kg | 0.76 | 54.2 | 50.2 | 91 | 75-125 | |
| Silver | mg/kg | ND | 27.1 | 23.2 | 85 | 75-125 | |
| Sodium | mg/kg | 493 | 542 | 959 | 86 | 75-125 | |
| Zinc | mg/kg | 67.9 | 54.2 | 107 | 72 | 75-125 | M0 |

SAMPLE DUPLICATE: 431480

| Parameter | Units | 9267183001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | ND | | |
| Barium | mg/kg | 348 | 363 | 4 | |
| Cadmium | mg/kg | 7.7 | 6.9 | 10 | |
| Calcium | mg/kg | 24700 | 25200 | 2 | |
| Chromium | mg/kg | 42.0 | 44.5 | 6 | |
| Copper | mg/kg | 322 | 334 | 4 | |
| Lead | mg/kg | 36.4 | 37.8 | 4 | |
| Magnesium | mg/kg | 1710 | 1780 | 4 | |
| Manganese | mg/kg | 741 | 780 | 5 | |
| Molybdenum | mg/kg | 9.5 | 9.9 | 4 | |
| Nickel | mg/kg | 21.9 | 23.7 | 8 | |
| Potassium | mg/kg | 3200 | 3170 | 1 | |
| Selenium | mg/kg | 5.9 | 6.0 | 1 | |
| Silver | mg/kg | 41.3 | 42.3 | 2 | |
| Sodium | mg/kg | 2050 | 2080 | 1 | |
| Zinc | mg/kg | 700 | 737 | 5 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

QC Batch: MPRP/6205
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9267276002

METHOD BLANK: 433630 Matrix: Water
Associated Lab Samples: 9267276002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | 04/26/10 12:10 | |
| Barium | mg/L | ND | 0.025 | 04/26/10 12:10 | |
| Cadmium | mg/L | ND | 0.0050 | 04/26/10 12:10 | |
| Chromium | mg/L | ND | 0.025 | 04/26/10 12:10 | |
| Lead | mg/L | ND | 0.025 | 04/26/10 12:10 | |
| Selenium | mg/L | ND | 0.050 | 04/26/10 12:10 | |
| Silver | mg/L | ND | 0.025 | 04/26/10 12:10 | |

LABORATORY CONTROL SAMPLE: 433631

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.7 | 110 | 80-120 | |
| Barium | mg/L | 2.5 | 2.4 | 96 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.5 | 101 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.6 | 104 | 80-120 | |
| Lead | mg/L | 2.5 | 2.3 | 94 | 80-120 | |
| Selenium | mg/L | 2.5 | 2.8 | 113 | 80-120 | |
| Silver | mg/L | 1.2 | 1.2 | 97 | 80-120 | |

MATRIX SPIKE SAMPLE: 433632

| Parameter | Units | 9267654001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 2.5 | 2.3 | 91 | 75-125 | |
| Barium | mg/L | 0.42 | 2.5 | 2.4 | 78 | 75-125 | |
| Cadmium | mg/L | ND | 2.5 | 2.1 | 85 | 75-125 | |
| Chromium | mg/L | ND | 2.5 | 2.2 | 87 | 75-125 | |
| Lead | mg/L | 0.15 | 2.5 | 2.1 | 80 | 75-125 | |
| Selenium | mg/L | ND | 2.5 | 2.3 | 92 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 1.0 | 81 | 75-125 | |

SAMPLE DUPLICATE: 433633

| Parameter | Units | 9267654002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | ND | | |
| Barium | mg/L | 0.35 | 0.35 | 0 | |
| Cadmium | mg/L | ND | ND | | |
| Chromium | mg/L | ND | .0024J | | |
| Lead | mg/L | 0.041 | 0.035 | 15 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

SAMPLE DUPLICATE: 433633

| Parameter | Units | 9267654002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Selenium | mg/L | ND | .021J | | |
| Silver | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

QC Batch: MERP/2780
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9267276002

METHOD BLANK: 433626 Matrix: Water
Associated Lab Samples: 9267276002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 04/26/10 12:38 | |

LABORATORY CONTROL SAMPLE: 433627

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | .0025 | 0.0026 | 106 | 80-120 | |

MATRIX SPIKE SAMPLE: 433628

| Parameter | Units | 9267406004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | .0025 | 0.0026 | 104 | 75-125 | |

SAMPLE DUPLICATE: 433629

| Parameter | Units | 9267426001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

QC Batch: MERP/2761
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 9267276001

METHOD BLANK: 428582 Matrix: Solid
Associated Lab Samples: 9267276001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 04/15/10 15:19 | |

LABORATORY CONTROL SAMPLE: 428583

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.066 | 99 | 80-120 | |

MATRIX SPIKE SAMPLE: 428584

| Parameter | Units | 9267029001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.032 | .064 | 0.078 | 72 | 75-125 | M0 |

SAMPLE DUPLICATE: 428585

| Parameter | Units | 9267153005 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | ND | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

QC Batch: PMST/3144
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9267276001

SAMPLE DUPLICATE: 431478

| Parameter | Units | 9267083001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 66.6 | 55.8 | 18 | |

SAMPLE DUPLICATE: 431479

| Parameter | Units | 9267369002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 10.3 | 11.4 | 10 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

QC Batch: WETA/7187
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9267276001

METHOD BLANK: 430557 Matrix: Solid
Associated Lab Samples: 9267276001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | 04/20/10 12:04 | |

LABORATORY CONTROL SAMPLE: 430558

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 19.7 | 98 | 90-110 | |

MATRIX SPIKE SAMPLE: 430559

| Parameter | Units | 9267444001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 13.3 | 110 | 124 | 101 | 90-110 | |

SAMPLE DUPLICATE: 430560

| Parameter | Units | 9267167001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 3190 | 5130 | 13 | |



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# QUALIFIERS

Project: Ponded Ash for Reuse 4/13/10
Pace Project No.: 9267276

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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U - Indicates the compound was analyzed for, but not detected.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |



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May 28, 2010

Ms. Crystal Diedrich
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

Dear Ms. Diedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**



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# CERTIFICATIONS

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

**Charlotte Certification IDs**

Florida/NELAP Certification #: E87627
Connecticut Certification #: PH-0104
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Kentucky UST Certification #: 84

**Asheville Certification IDs**

Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 9903002
South Carolina Certification #: 9903001
Tennessee Certification #: 2980
Virginia Certification #: 00072
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West Virginia Certification #: 356



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# ANALYTICAL RESULTS

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

**Sample: ASH FROM ASH POND** **Lab ID: 9269444001** Collected: 05/13/10 15:40 Received: 05/14/10 10:40 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **63.3** | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-38-2 | D3 |
| Barium | **729** | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-39-3 | D3 |
| Cadmium | ND | mg/kg | 0.24 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-43-9 | D3 |
| Calcium | **2160** | mg/kg | 24.3 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-70-2 | D3 |
| Chromium | **13.2** | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-47-3 | D3 |
| Copper | **29.9** | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-50-8 | D3 |
| Lead | **11.8** | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7439-92-1 | D3 |
| Magnesium | **942** | mg/kg | 24.3 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7439-95-4 | D3 |
| Manganese | **48.7** | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7439-96-5 | D3 |
| Molybdenum | **1.5** | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7439-98-7 | D3 |
| Nickel | **11.9** | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-02-0 | D3 |
| Potassium | **1850** | mg/kg | 1220 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-09-7 | D3 |
| Selenium | **9.5** | mg/kg | 2.4 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7782-49-2 | D3 |
| Silver | ND | mg/kg | 1.2 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-22-4 | D3 |
| Sodium | ND | mg/kg | 1220 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-23-5 | D3 |
| Zinc | **16.8** | mg/kg | 2.4 | 2 | 05/18/10 15:00 | 05/21/10 13:36 | 7440-66-6 | D3 |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **0.36** | mg/kg | 0.027 | 5 | 05/19/10 14:15 | 05/21/10 12:03 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **23.9** | % | 0.10 | 1 | | 05/24/10 09:33 | | |
| **2540G Total Percent Solids** | Analytical Method: SM 2540G | | | | | | | |
| Total Solids | **76.1** | % | 0.10 | 1 | | 05/24/10 09:33 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **189** | mg/kg | 10.1 | 1 | | 05/18/10 11:18 | 7723-14-0 | |



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## ANALYTICAL RESULTS

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

**Sample: ASH FROM ASH POND** **Lab ID: 9269444002** Collected: 05/13/10 15:40 Received: 05/14/10 10:40 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 05/24/10 16:55 | | | | | | | |
| Arsenic | **0.089** | mg/L | 0.025 | 1 | 05/25/10 14:00 | 05/26/10 16:56 | 7440-38-2 | |
| Barium | **5.1** | mg/L | 0.025 | 1 | 05/25/10 14:00 | 05/26/10 16:56 | 7440-39-3 | |
| Cadmium | ND | mg/L | 0.0050 | 1 | 05/25/10 14:00 | 05/26/10 16:56 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.025 | 1 | 05/25/10 14:00 | 05/26/10 16:56 | 7440-47-3 | |
| Lead | ND | mg/L | 0.025 | 1 | 05/25/10 14:00 | 05/26/10 16:56 | 7439-92-1 | |
| Selenium | **0.062** | mg/L | 0.050 | 1 | 05/25/10 14:00 | 05/26/10 16:56 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 05/25/10 14:00 | 05/26/10 16:56 | 7440-22-4 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 05/24/10 16:55 | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 05/25/10 14:55 | 05/26/10 12:12 | 7439-97-6 | |



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## QUALITY CONTROL DATA

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

QC Batch: MPRP/6353
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9269444001

METHOD BLANK: 443882
Matrix: Solid
Associated Lab Samples: 9269444001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Barium | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Cadmium | mg/kg | ND | 0.10 | 05/21/10 04:16 | |
| Calcium | mg/kg | ND | 10.0 | 05/21/10 13:30 | |
| Chromium | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Copper | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Lead | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Magnesium | mg/kg | ND | 10.0 | 05/21/10 04:16 | |
| Manganese | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Molybdenum | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Nickel | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Potassium | mg/kg | ND | 500 | 05/21/10 04:16 | |
| Selenium | mg/kg | ND | 1.0 | 05/21/10 04:16 | |
| Silver | mg/kg | ND | 0.50 | 05/21/10 04:16 | |
| Sodium | mg/kg | ND | 500 | 05/21/10 04:16 | |
| Zinc | mg/kg | ND | 1.0 | 05/21/10 04:16 | |

LABORATORY CONTROL SAMPLE: 443883

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 53.9 | 108 | 80-120 | |
| Barium | mg/kg | 50 | 51.5 | 103 | 80-120 | |
| Cadmium | mg/kg | 50 | 55.8 | 112 | 80-120 | |
| Calcium | mg/kg | 500 | 565 | 113 | 80-120 | |
| Chromium | mg/kg | 50 | 55.6 | 111 | 80-120 | |
| Copper | mg/kg | 50 | 50.9 | 102 | 80-120 | |
| Lead | mg/kg | 50 | 53.9 | 108 | 80-120 | |
| Magnesium | mg/kg | 500 | 538 | 108 | 80-120 | |
| Manganese | mg/kg | 50 | 54.4 | 109 | 80-120 | |
| Molybdenum | mg/kg | 50 | 55.6 | 111 | 80-120 | |
| Nickel | mg/kg | 50 | 53.7 | 107 | 80-120 | |
| Potassium | mg/kg | 500 | 520 | 104 | 80-120 | |
| Selenium | mg/kg | 50 | 51.4 | 103 | 80-120 | |
| Silver | mg/kg | 25 | 26.5 | 106 | 80-120 | |
| Sodium | mg/kg | 500 | 521 | 104 | 80-120 | |
| Zinc | mg/kg | 50 | 54.4 | 109 | 80-120 | |



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## QUALITY CONTROL DATA

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

MATRIX SPIKE SAMPLE: 443884

| Parameter | Units | 9269466019 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 6.7 | 50.7 | 61.1 | 107 | 75-125 | |
| Barium | mg/kg | 113 | 50.7 | 168 | 109 | 75-125 | |
| Cadmium | mg/kg | 0.81 | 50.7 | 46.9 | 91 | 75-125 | |
| Calcium | mg/kg | 124000 | 507 | 139000 | 3022 | 75-125 | M0 |
| Chromium | mg/kg | 16.1 | 50.7 | 68.5 | 103 | 75-125 | |
| Copper | mg/kg | 39.8 | 50.7 | 97.7 | 114 | 75-125 | |
| Lead | mg/kg | 143 | 50.7 | 134 | -17 | 75-125 | M0 |
| Magnesium | mg/kg | 5200 | 507 | 7050 | 364 | 75-125 | M0 |
| Manganese | mg/kg | 603 | 50.7 | 646 | 85 | 75-125 | |
| Molybdenum | mg/kg | ND | 50.7 | 46.0 | 91 | 75-125 | |
| Nickel | mg/kg | 9.6 | 50.7 | 51.3 | 82 | 75-125 | |
| Potassium | mg/kg | 7600 | 507 | 8840 | 245 | 75-125 | M0 |
| Selenium | mg/kg | 1.2 | 50.7 | 51.5 | 99 | 75-125 | |
| Silver | mg/kg | 0.15J | 25.4 | 26.8 | 105 | 75-125 | |
| Sodium | mg/kg | 553 | 507 | 1600 | 206 | 75-125 | M0 |
| Zinc | mg/kg | 74.3 | 50.7 | 133 | 116 | 75-125 | |

SAMPLE DUPLICATE: 443885

| Parameter | Units | 9269466020 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 4.8 | 4.6 | 5 | |
| Barium | mg/kg | 12.9 | 11.6 | 10 | |
| Cadmium | mg/kg | 0.30 | 0.26 | 15 | |
| Calcium | mg/kg | 107000 | 101000 | 6 | |
| Chromium | mg/kg | 5.4 | 4.8 | 10 | |
| Copper | mg/kg | 8.8 | 8.6 | 3 | |
| Lead | mg/kg | 17.8 | 16.6 | 7 | |
| Magnesium | mg/kg | 1380 | 1250 | 10 | |
| Manganese | mg/kg | 128 | 112 | 14 | |
| Molybdenum | mg/kg | ND | ND | | |
| Nickel | mg/kg | 2.9 | 2.9 | 1 | |
| Potassium | mg/kg | 381 | 347J | | |
| Selenium | mg/kg | 0.54J | 1.5 | | |
| Silver | mg/kg | ND | ND | | |
| Sodium | mg/kg | 124J | 113J | | |
| Zinc | mg/kg | 75.7 | 69.7 | 8 | |



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## QUALITY CONTROL DATA

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

QC Batch: MPRP/6402
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9269444002

METHOD BLANK: 447128 Matrix: Water
Associated Lab Samples: 9269444002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | 05/26/10 13:54 | |
| Barium | mg/L | ND | 0.025 | 05/26/10 13:54 | |
| Cadmium | mg/L | ND | 0.0050 | 05/26/10 13:54 | |
| Chromium | mg/L | ND | 0.025 | 05/26/10 13:54 | |
| Lead | mg/L | ND | 0.025 | 05/26/10 13:54 | |
| Selenium | mg/L | ND | 0.050 | 05/26/10 13:54 | |
| Silver | mg/L | ND | 0.025 | 05/26/10 13:54 | |

LABORATORY CONTROL SAMPLE: 447129

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.7 | 106 | 80-120 | |
| Barium | mg/L | 2.5 | 2.4 | 95 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.5 | 99 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.5 | 99 | 80-120 | |
| Lead | mg/L | 2.5 | 2.3 | 93 | 80-120 | |
| Selenium | mg/L | 2.5 | 2.7 | 109 | 80-120 | |
| Silver | mg/L | 1.2 | 1.2 | 96 | 80-120 | |

MATRIX SPIKE SAMPLE: 447131

| Parameter | Units | 9269277001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 2.5 | 2.1 | 85 | 75-125 | |
| Barium | mg/L | ND | 2.5 | 2.1 | 85 | 75-125 | |
| Cadmium | mg/L | ND | 2.5 | 2.1 | 84 | 75-125 | |
| Chromium | mg/L | ND | 2.5 | 2.1 | 84 | 75-125 | |
| Lead | mg/L | ND | 2.5 | 2.1 | 83 | 75-125 | |
| Selenium | mg/L | ND | 2.5 | 2.2 | 87 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 0.96 | 76 | 75-125 | |

SAMPLE DUPLICATE: 447130

| Parameter | Units | 9269156001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | <0.025 | ND | | |
| Barium | mg/L | 1.3 | 1.3 | 1 | |
| Cadmium | mg/L | <0.0050 | .004J | | |
| Chromium | mg/L | <0.025 | .0028J | | |
| Lead | mg/L | <0.025 | ND | | |



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## QUALITY CONTROL DATA

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

SAMPLE DUPLICATE: 447130

| Parameter | Units | 9269156001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Selenium | mg/L | <0.050 | ND | | |
| Silver | mg/L | <0.025 | .0024J | | |



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## QUALITY CONTROL DATA

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

QC Batch: MERP/2836
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9269444002

METHOD BLANK: 447095 Matrix: Water
Associated Lab Samples: 9269444002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 05/26/10 12:02 | |

LABORATORY CONTROL SAMPLE: 447096

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | .0025 | 0.0023 | 93 | 80-120 | |

MATRIX SPIKE SAMPLE: 447097

| Parameter | Units | 9269277001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | .0025 | 0.0017 | 66 | 75-125 | |

SAMPLE DUPLICATE: 447098

| Parameter | Units | 9269444002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

QC Batch: MERP/2827
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 9269444001

METHOD BLANK: 444203 Matrix: Solid
Associated Lab Samples: 9269444001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 05/21/10 12:20 | |

LABORATORY CONTROL SAMPLE: 444204

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.065 | 97 | 80-120 | |

MATRIX SPIKE SAMPLE: 444205

| Parameter | Units | 9269466019 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.016 | .049 | 0.049 | 68 | 75-125 | |

SAMPLE DUPLICATE: 444206

| Parameter | Units | 9269466020 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.012 | 0.016 | 24 | |



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## QUALITY CONTROL DATA

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

QC Batch: PMST/3198
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9269444001

SAMPLE DUPLICATE: 445762

| Parameter | Units | 9269444001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 23.9 | 24.2 | 1 | |

SAMPLE DUPLICATE: 445763

| Parameter | Units | 9269934015 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 11.3 | 11.4 | 1 | |



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## QUALITY CONTROL DATA

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

QC Batch: WETA/7379
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9269444001

METHOD BLANK: 443156 Matrix: Solid
Associated Lab Samples: 9269444001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | 05/18/10 11:16 | |

LABORATORY CONTROL SAMPLE: 443157

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 18.8 | 94 | 90-110 | |

MATRIX SPIKE SAMPLE: 443158

| Parameter | Units | 9269291001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 24.8 | 133 | 143 | 89 | 90-110 | M0 |

SAMPLE DUPLICATE: 443159

| Parameter | Units | 9268900001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 2190 | 3450 | 45 | R1 |



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# QUALIFIERS

Project: PONDED ASH FOR REUSE 05/14
Pace Project No.: 9269444

**DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

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**ANALYTE QUALIFIERS**

| | |
|---|---|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| R1 | RPD value was outside control limits. |



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June 23, 2010

Ms. Crystal Diedrich
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

Dear Ms. Diedrich:
Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**



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# CERTIFICATIONS

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

**Charlotte Certification IDs**
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84

**Asheville Certification IDs**
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Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 9903002
South Carolina Certification #: 9903001
Tennessee Certification #: 2980
Virginia Certification #: 00072
West Virginia Certification #: 356



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## ANALYTICAL RESULTS

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

**Sample: Ash from Ash Pond** **Lab ID: 9271210001** Collected: 06/09/10 13:57 Received: 06/10/10 07:20 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **83.4** | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-38-2 | |
| Barium | **1060** | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-39-3 | |
| Cadmium | ND | mg/kg | 0.13 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-43-9 | |
| Calcium | **1710** | mg/kg | 13.2 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-70-2 | |
| Chromium | **12.3** | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-47-3 | |
| Copper | **33.6** | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-50-8 | |
| Lead | **11.5** | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7439-92-1 | |
| Magnesium | **704** | mg/kg | 13.2 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7439-95-4 | |
| Manganese | **51.9** | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7439-96-5 | |
| Molybdenum | **2.1** | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7439-98-7 | |
| Nickel | **10.9** | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-02-0 | |
| Potassium | **1700** | mg/kg | 659 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-09-7 | |
| Selenium | **14.1** | mg/kg | 1.3 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.66 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-22-4 | |
| Sodium | **1520** | mg/kg | 659 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-23-5 | |
| Zinc | **14.1** | mg/kg | 1.3 | 1 | 06/18/10 15:25 | 06/21/10 20:24 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **0.27** | mg/kg | 0.028 | 5 | 06/17/10 11:20 | 06/17/10 14:49 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **25.6** | % | 0.10 | 1 | | 06/15/10 09:09 | | |
| **2540G Total Percent Solids** | Analytical Method: SM 2540G | | | | | | | |
| Total Solids | **74.4** | % | 0.10 | 1 | | 06/15/10 09:09 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **220** | mg/kg | 15.8 | 2 | | 06/11/10 15:37 | 7723-14-0 | |



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## ANALYTICAL RESULTS

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

**Sample: Ash from Ash Pond TCLP** **Lab ID: 9271210002** Collected: 06/09/10 13:57 Received: 06/10/10 07:20 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 06/18/10 18:20 | | | | | | | |
| Arsenic | **0.089** | mg/L | 0.025 | 1 | 06/21/10 12:45 | 06/21/10 22:39 | 7440-38-2 | |
| Barium | **4.2** | mg/L | 0.025 | 1 | 06/21/10 12:45 | 06/21/10 22:39 | 7440-39-3 | |
| Cadmium | ND | mg/L | 0.0050 | 1 | 06/21/10 12:45 | 06/21/10 22:39 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.025 | 1 | 06/21/10 12:45 | 06/21/10 22:39 | 7440-47-3 | |
| Lead | ND | mg/L | 0.025 | 1 | 06/21/10 12:45 | 06/21/10 22:39 | 7439-92-1 | |
| Selenium | **0.080** | mg/L | 0.050 | 1 | 06/21/10 12:45 | 06/21/10 22:39 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 06/21/10 12:45 | 06/21/10 22:39 | 7440-22-4 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 06/18/10 18:20 | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 06/22/10 09:40 | 06/22/10 14:33 | 7439-97-6 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

QC Batch: MPRP/6523
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9271210001

METHOD BLANK: 457615
Matrix: Solid
Associated Lab Samples: 9271210001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Barium | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Cadmium | mg/kg | ND | 0.10 | 06/21/10 19:52 | |
| Calcium | mg/kg | 30.8 | 10.0 | 06/21/10 19:52 | P8 |
| Chromium | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Copper | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Lead | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Magnesium | mg/kg | ND | 10.0 | 06/21/10 19:52 | |
| Manganese | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Molybdenum | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Nickel | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Potassium | mg/kg | ND | 500 | 06/21/10 19:52 | |
| Selenium | mg/kg | ND | 1.0 | 06/21/10 19:52 | |
| Silver | mg/kg | ND | 0.50 | 06/21/10 19:52 | |
| Sodium | mg/kg | ND | 500 | 06/21/10 19:52 | |
| Zinc | mg/kg | ND | 1.0 | 06/21/10 19:52 | |

LABORATORY CONTROL SAMPLE: 457616

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 52.1 | 104 | 80-120 | |
| Barium | mg/kg | 50 | 49.8 | 100 | 80-120 | |
| Cadmium | mg/kg | 50 | 52.7 | 105 | 80-120 | |
| Calcium | mg/kg | 500 | 534 | 107 | 80-120 | |
| Chromium | mg/kg | 50 | 52.7 | 105 | 80-120 | |
| Copper | mg/kg | 50 | 51.3 | 103 | 80-120 | |
| Lead | mg/kg | 50 | 52.2 | 104 | 80-120 | |
| Magnesium | mg/kg | 500 | 526 | 105 | 80-120 | |
| Manganese | mg/kg | 50 | 51.8 | 104 | 80-120 | |
| Molybdenum | mg/kg | 50 | 53.1 | 106 | 80-120 | |
| Nickel | mg/kg | 50 | 52.5 | 105 | 80-120 | |
| Potassium | mg/kg | 500 | 499J | 100 | 80-120 | |
| Selenium | mg/kg | 50 | 51.6 | 103 | 80-120 | |
| Silver | mg/kg | 25 | 24.1 | 96 | 80-120 | |
| Sodium | mg/kg | 500 | 495J | 99 | 80-120 | |
| Zinc | mg/kg | 50 | 53.4 | 107 | 80-120 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

MATRIX SPIKE SAMPLE: 457617

| Parameter | Units | 9271113022 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 1.6 | 57.6 | 58.1 | 98 | 75-125 | |
| Barium | mg/kg | 61.0 | 57.6 | 116 | 95 | 75-125 | |
| Cadmium | mg/kg | 0.70 | 57.6 | 58.3 | 100 | 75-125 | |
| Calcium | mg/kg | 6340 | 576 | 6310 | -6 | 75-125 | M0 |
| Chromium | mg/kg | 8.9 | 57.6 | 68.1 | 103 | 75-125 | |
| Copper | mg/kg | 27.2 | 57.6 | 80.4 | 92 | 75-125 | |
| Lead | mg/kg | 102 | 57.6 | 151 | 87 | 75-125 | |
| Magnesium | mg/kg | 561 | 576 | 1150 | 103 | 75-125 | |
| Manganese | mg/kg | 245 | 57.6 | 280 | 61 | 75-125 | M0 |
| Molybdenum | mg/kg | ND | 57.6 | 58.4 | 101 | 75-125 | |
| Nickel | mg/kg | 8.7 | 57.6 | 65.9 | 99 | 75-125 | |
| Potassium | mg/kg | ND | 576 | 958 | 126 | 75-125 | M0 |
| Selenium | mg/kg | ND | 57.6 | 51.2 | 89 | 75-125 | |
| Silver | mg/kg | ND | 28.9 | 26.6 | 92 | 75-125 | |
| Sodium | mg/kg | ND | 576 | 893 | 131 | 75-125 | M0 |
| Zinc | mg/kg | 215 | 57.6 | 263 | 83 | 75-125 | |

SAMPLE DUPLICATE: 457618

| Parameter | Units | 9271113023 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 1.9 | 1.9 | 1 | |
| Barium | mg/kg | 41.0 | 41.0 | 0 | |
| Cadmium | mg/kg | 0.58 | 0.55 | 6 | |
| Calcium | mg/kg | 4710 | 2510 | 61 | R1 |
| Chromium | mg/kg | 8.0 | 7.6 | 5 | |
| Copper | mg/kg | 22.8 | 27.0 | 17 | |
| Lead | mg/kg | 107 | 99.5 | 8 | |
| Magnesium | mg/kg | 297 | 290 | 2 | |
| Manganese | mg/kg | 236 | 212 | 11 | |
| Molybdenum | mg/kg | ND | .15J | | |
| Nickel | mg/kg | 7.0 | 6.6 | 5 | |
| Potassium | mg/kg | ND | 179J | | |
| Selenium | mg/kg | ND | ND | | |
| Silver | mg/kg | ND | .092J | | |
| Sodium | mg/kg | ND | 137J | | |
| Zinc | mg/kg | 132 | 124 | 6 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

QC Batch: MPRP/6545
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9271210002

METHOD BLANK: 459154 Matrix: Water
Associated Lab Samples: 9271210002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | 06/21/10 21:52 | |
| Barium | mg/L | ND | 0.025 | 06/21/10 21:52 | |
| Cadmium | mg/L | ND | 0.0050 | 06/21/10 21:52 | |
| Chromium | mg/L | ND | 0.025 | 06/21/10 21:52 | |
| Lead | mg/L | ND | 0.025 | 06/21/10 21:52 | |
| Selenium | mg/L | ND | 0.050 | 06/21/10 21:52 | |
| Silver | mg/L | ND | 0.025 | 06/21/10 21:52 | |

LABORATORY CONTROL SAMPLE: 459155

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.7 | 110 | 80-120 | |
| Barium | mg/L | 2.5 | 2.3 | 93 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.6 | 102 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.6 | 104 | 80-120 | |
| Lead | mg/L | 2.5 | 2.4 | 96 | 80-120 | |
| Selenium | mg/L | 2.5 | 2.7 | 107 | 80-120 | |
| Silver | mg/L | 1.2 | 1.3 | 106 | 80-120 | |

MATRIX SPIKE SAMPLE: 459156

| Parameter | Units | 9270949001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 2.5 | 2.3 | 91 | 75-125 | |
| Barium | mg/L | 0.039 | 2.5 | 2.0 | 77 | 75-125 | |
| Cadmium | mg/L | ND | 2.5 | 2.2 | 86 | 75-125 | |
| Chromium | mg/L | 1.4 | 2.5 | 3.6 | 89 | 75-125 | |
| Lead | mg/L | ND | 2.5 | 2.0 | 81 | 75-125 | |
| Selenium | mg/L | ND | 2.5 | 2.3 | 91 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 1.1 | 89 | 75-125 | |

SAMPLE DUPLICATE: 459157

| Parameter | Units | 9270949003 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | ND | | |
| Barium | mg/L | 0.17 | 0.17 | 2 | |
| Cadmium | mg/L | ND | ND | | |
| Chromium | mg/L | 0.077 | 0.074 | 4 | |
| Lead | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

SAMPLE DUPLICATE: 459157

| Parameter | Units | 9270949003 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Selenium | mg/L | ND | ND | | |
| Silver | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

QC Batch: MERP/2866
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9271210002

METHOD BLANK: 459160 Matrix: Water
Associated Lab Samples: 9271210002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 06/22/10 13:51 | |

LABORATORY CONTROL SAMPLE: 459161

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | .0025 | 0.0024 | 95 | 80-120 | |

MATRIX SPIKE SAMPLE: 459162

| Parameter | Units | 9270949001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | .0025 | 0.0019 | 75 | 75-125 | |

SAMPLE DUPLICATE: 459163

| Parameter | Units | 9270949003 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

QC Batch: MERP/2863
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 9271210001

METHOD BLANK: 456023 Matrix: Solid
Associated Lab Samples: 9271210001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 06/17/10 13:42 | |

LABORATORY CONTROL SAMPLE: 456024

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.062 | 94 | 80-120 | |

MATRIX SPIKE SAMPLE: 456025

| Parameter | Units | 9271213003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.00490 ug/g | .057 | 0.015 | 18 | 75-125 | M0 |

SAMPLE DUPLICATE: 456026

| Parameter | Units | 9271213004 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.00875 ug/g | 0.0055 | 46 | R1 |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

QC Batch: PMST/3236
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9271210001

SAMPLE DUPLICATE: 455794

| Parameter | Units | 9271261001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 9.5 | 9.2 | 4 | |

SAMPLE DUPLICATE: 455795

| Parameter | Units | 9271210001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 25.6 | 27.2 | 6 | |



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## QUALITY CONTROL DATA

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

QC Batch: WETA/7542
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9271210001

METHOD BLANK: 454808 Matrix: Solid
Associated Lab Samples: 9271210001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | 06/11/10 15:26 | |

LABORATORY CONTROL SAMPLE: 454809

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 21.5 | 108 | 90-110 | |

MATRIX SPIKE SAMPLE: 454810

| Parameter | Units | 9270865001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 50.7 | 118 | 166 | 98 | 90-110 | |

SAMPLE DUPLICATE: 454811

| Parameter | Units | 9271210001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 220 | 251 | 13 | |



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# QUALIFIERS

Project: Ponded Ash for Reuse 6/9/10
Pace Project No.: 9271210

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

## ANALYTE QUALIFIERS

| | |
|---|---|
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| P8 | Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit. |
| R1 | RPD value was outside control limits. |



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**Appendix G**

FGD WWT Filter Cake Analyses
Questions 7 and 8

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February 10, 2006

Ms. Diane Elledge
Progress Energy
200 CP&L Drive
CT Site
Arden, NC 28704

RE: Lab Project Number: 92112526
Client Project ID: Asheville

Dear Ms. Elledge:

Enclosed are the analytical results for sample(s) received by the laboratory on February 1, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 92112526
Client Project ID: Asheville

Solid results are reported on a dry weight basis

Lab Sample No: 926603150 Project Sample Number: 92112526-001 Date Collected: 01/31/06 14:40
Client Sample ID: FILTER CAKE Matrix: Soil Date Received: 02/01/06 14:26

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | | |
| Trace ICP Metals, TCLP Leach. | Method: EPA 6010 | | | | | | | |
| Date Digested | 02/03/06 05:00 | | | 02/03/06 05:00 | | | | |
| Trace ICP Metals, TCLP Leach. | Prep/Method: EPA 3010 / EPA 6010 | | | | | | | |
| Arsenic | ND | mg/l | 0.025 | 02/04/06 20:47 | ALV | 7440-38-2 | | |
| Barium | 0.10 | mg/l | 0.025 | 02/04/06 20:47 | ALV | 7440-39-3 | | |
| Boron | 2.9 | mg/l | 0.050 | 02/04/06 20:47 | ALV | 7440-42-8 | | |
| Cadmium | ND | mg/l | 0.0050 | 02/04/06 20:47 | ALV | 7440-43-9 | | |
| Calcium | 940 | mg/l | 0.50 | 02/04/06 20:47 | ALV | 7440-70-2 | | |
| Chromium | 0.060 | mg/l | 0.010 | 02/04/06 20:47 | ALV | 7440-47-3 | | |
| Copper | 0.059 | mg/l | 0.010 | 02/04/06 20:47 | ALV | 7440-50-8 | | |
| Iron | ND | mg/l | 0.25 | 02/04/06 20:47 | ALV | 7439-89-6 | | |
| Lead | ND | mg/l | 0.025 | 02/04/06 20:47 | ALV | 7439-92-1 | | |
| Magnesium | 24. | mg/l | 0.50 | 02/04/06 20:47 | ALV | 7439-95-4 | | |
| Manganese | 0.043 | mg/l | 0.025 | 02/04/06 20:47 | ALV | 7439-96-5 | | |
| Molybdenum | ND | mg/l | 0.025 | 02/04/06 20:47 | ALV | 7439-98-7 | | |
| Nickel | 0.25 | mg/l | 0.025 | 02/04/06 20:47 | ALV | 7440-02-0 | | |
| Potassium | 5.2 | mg/l | 5.0 | 02/04/06 20:47 | ALV | 7440-09-7 | | |
| Selenium | 0.097 | mg/l | 0.025 | 02/04/06 20:47 | ALV | 7782-49-2 | | |
| Silver | ND | mg/l | 0.010 | 02/04/06 20:47 | ALV | 7440-22-4 | | |
| Sodium | 3000 | mg/l | 5.0 | 02/04/06 20:47 | ALV | 7440-23-5 | 1 | |
| Zinc | 1.4 | mg/l | 0.050 | 02/04/06 20:47 | ALV | 7440-66-6 | | |
| Date Digested | 02/03/06 08:30 | | | 02/03/06 08:30 | | | | |
| Metals, Trace ICP | Prep/Method: EPA 3050 / EPA 6010 | | | | | | | |
| Arsenic | 20. | mg/kg | 0.76 | 02/05/06 16:00 | SAJ | 7440-38-2 | | |
| Barium | 160 | mg/kg | 0.76 | 02/05/06 16:00 | SAJ | 7440-39-3 | | |
| Boron | 170 | mg/kg | 1.5 | 02/05/06 16:00 | SAJ | 7440-42-8 | | |
| Cadmium | ND | mg/kg | 0.15 | 02/05/06 16:00 | SAJ | 7440-43-9 | | |
| Calcium | 180000 | mg/kg | 76. | 02/05/06 16:00 | SAJ | 7440-70-2 | | |
| Chromium | 77. | mg/kg | 0.30 | 02/05/06 16:00 | SAJ | 7440-47-3 | | |
| Copper | 65. | mg/kg | 0.30 | 02/05/06 16:00 | SAJ | 7440-50-8 | | |
| Iron | 41000 | mg/kg | 38. | 02/05/06 16:00 | SAJ | 7439-89-6 | | |
| Lead | 16. | mg/kg | 0.76 | 02/05/06 16:00 | SAJ | 7439-92-1 | | |
| Magnesium | 8200 | mg/kg | 15. | 02/05/06 16:00 | SAJ | 7439-95-4 | | |
| Manganese | 2400 | mg/kg | 1.5 | 02/05/06 16:00 | SAJ | 7439-96-5 | | |
| Molybdenum | 9.2 | mg/kg | 0.76 | 02/05/06 16:00 | SAJ | 7439-98-7 | | |



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Lab Project Number: 92112526
Client Project ID: Asheville

Lab Sample No: 926603150 Project Sample Number: 92112526-001 Date Collected: 01/31/06 14:40
Client Sample ID: FILTER CAKE Matrix: Soil Date Received: 02/01/06 14:26

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| Nickel | 66. | mg/kg | 0.76 | 02/05/06 16:00 | SAJ | 7440-02-0 | | |
| Potassium | 10000 | mg/kg | 760 | 02/05/06 16:00 | SAJ | 7440-09-7 | | |
| Selenium | 11. | mg/kg | 0.76 | 02/05/06 16:00 | SAJ | 7782-49-2 | | |
| Silver | ND | mg/kg | 0.30 | 02/05/06 16:00 | SAJ | 7440-22-4 | | |
| Sodium | 930 | mg/kg | 150 | 02/05/06 16:00 | SAJ | 7440-23-5 | | |
| Zinc | 180 | mg/kg | 1.5 | 02/05/06 16:00 | SAJ | 7440-66-6 | | |
| Date Digested | 02/02/06 19:40 | | | 02/02/06 19:40 | | | | |
| Mercury, CVAAS, TCLP Leachate | Method: EPA 7470 | | | | | | | |
| Mercury | 0.00021 | mg/l | 0.00020 | 02/03/06 11:43 | ALV | 7439-97-6 | | |
| Mercury, CVAAS, in Soil | Method: EPA 7471 | | | | | | | |
| Mercury | 0.41 | mg/kg | 0.071 | 02/06/06 10:33 | ALV | 7439-97-6 | | |
| **Wet Chemistry** | | | | | | | | |
| Percent Moisture | Method: % Moisture | | | | | | | |
| Percent Moisture | 37.7 | % | | 02/02/06 14:16 | KDF | | | |
| Phosphorus, Total, Soil | Method: EPA 365.2 | | | | | | | |
| Phosphorus | 4680 | mg/kg | 1280 | 02/10/06 08:00 | BMF | 7723-14-0 | | |
| Sulfate, Total, Soil | Method: EPA 375.4 Modified | | | | | | | |
| Sulfate | 120000 | mg/kg | 3800 | 02/06/06 11:30 | BMF | | | |



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Lab Project Number: 92112526
Client Project ID: Asheville

## PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

| | |
|---|---|
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| [1] | Sodium can not be analyzed by TCLP method because the TCLP extraction fluid contains Sodium Hydroxide, resulting in a false Sodium result. |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

QC Batch: 148902 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 926603150

METHOD BLANK: 926610221
Associated Lab Samples: 926603150

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/l | ND | 0.0002 | |

LABORATORY CONTROL SAMPLE: 926610239

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.0025 | 0.0026 | 103 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926610247 926610254

| Parameter | Units | 926603689 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/l | 0.00019 | 0.0050 | 0.0046 | 0.0047 | 89 | 91 | 2 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

---

QC Batch: 149017 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: Mercury, CVAAS, in Soil
Associated Lab Samples: 926603150

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METHOD BLANK: 926615642
Associated Lab Samples: 926603150

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

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LABORATORY CONTROL SAMPLE: 926615659

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.0667 | 0.0667 | 100 | |

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926615667 926615675

| Parameter | Units | 926597717 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.04938 | 0.0856 | 0.1247 | 0.1115 | 88 | 82 | 11 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

---

QC Batch: 148883 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: Metals, Trace ICP
Associated Lab Samples: 926603150

---

METHOD BLANK: 926609561
Associated Lab Samples: 926603150

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10. | |
| Chromium | mg/kg | ND | 0.20 | |
| Copper | mg/kg | ND | 0.20 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10. | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 100 | |
| Selenium | mg/kg | ND | 0.50 | |
| Silver | mg/kg | ND | 0.20 | |
| Sodium | mg/kg | ND | 100 | |
| Zinc | mg/kg | ND | 1.0 | |

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LABORATORY CONTROL SAMPLE: 926609579

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 50.00 | 48.30 | 97 | |
| Barium | mg/kg | 50.00 | 47.40 | 95 | |
| Boron | mg/kg | 50.00 | 48.60 | 97 | |
| Cadmium | mg/kg | 50.00 | 48.70 | 97 | |
| Calcium | mg/kg | 500.00 | 514.0 | 103 | |
| Chromium | mg/kg | 50.00 | 49.40 | 99 | |
| Copper | mg/kg | 50.00 | 47.90 | 96 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

LABORATORY CONTROL SAMPLE: 926609579

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/kg | 500.00 | 510.0 | 102 | |
| Lead | mg/kg | 50.00 | 48.50 | 97 | |
| Magnesium | mg/kg | 500.00 | 508.0 | 102 | |
| Manganese | mg/kg | 50.00 | 48.60 | 97 | |
| Molybdenum | mg/kg | 50.00 | 49.20 | 98 | |
| Nickel | mg/kg | 50.00 | 48.20 | 96 | |
| Potassium | mg/kg | 500.00 | 458.0 | 92 | |
| Selenium | mg/kg | 50.00 | 49.00 | 98 | |
| Silver | mg/kg | 25.00 | 24.00 | 96 | |
| Sodium | mg/kg | 500.00 | 452.0 | 90 | |
| Zinc | mg/kg | 50.00 | 49.50 | 99 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926609777 926609785

| Parameter | Units | 926596289 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 0.9904 | 49.02 | 49.61 | 51.84 | 99 | 100 | 4 | |
| Barium | mg/kg | 0.03683 | 49.02 | 47.16 | 49.29 | 96 | 96 | 4 | |
| Boron | mg/kg | 0.2490 | 49.02 | 47.16 | 49.08 | 96 | 96 | 4 | |
| Cadmium | mg/kg | 0 | 49.02 | 48.53 | 50.61 | 99 | 99 | 4 | |
| Calcium | mg/kg | 9.067 | 490.20 | 508.8 | 523.5 | 102 | 101 | 3 | |
| Chromium | mg/kg | 0.08173 | 49.02 | 49.80 | 51.84 | 101 | 101 | 4 | |
| Copper | mg/kg | 0 | 49.02 | 46.76 | 48.88 | 95 | 96 | 4 | |
| Iron | mg/kg | 3.808 | 490.20 | 491.2 | 511.2 | 99 | 100 | 4 | |
| Lead | mg/kg | 0.3413 | 49.02 | 47.84 | 49.90 | 97 | 97 | 4 | |
| Magnesium | mg/kg | 0.4875 | 490.20 | 470.6 | 489.8 | 96 | 96 | 4 | |
| Manganese | mg/kg | 0.06212 | 49.02 | 48.53 | 50.71 | 99 | 99 | 4 | |
| Molybdenum | mg/kg | 0 | 49.02 | 49.22 | 51.43 | 100 | 101 | 4 | |
| Nickel | mg/kg | 0.2125 | 49.02 | 48.04 | 50.31 | 98 | 98 | 5 | |
| Potassium | mg/kg | 4.519 | 490.20 | 461.8 | 459.2 | 93 | 89 | 1 | |
| Selenium | mg/kg | 1.269 | 49.02 | 52.35 | 54.59 | 104 | 104 | 4 | |
| Silver | mg/kg | 0 | 24.51 | 23.43 | 24.59 | 96 | 96 | 5 | |
| Sodium | mg/kg | 35.87 | 490.20 | 463.7 | 469.4 | 87 | 85 | 1 | |
| Zinc | mg/kg | 1.702 | 49.02 | 50.29 | 51.94 | 99 | 98 | 3 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

SAMPLE DUPLICATE: 926609793

| Parameter | Units | 926603713 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 1.800 | 2.000 | 11 | |
| Barium | mg/kg | 27.00 | 28.00 | 3 | |
| Boron | mg/kg | ND | ND | NC | |
| Cadmium | mg/kg | ND | ND | NC | |
| Calcium | mg/kg | 370.0 | 370.0 | 1 | |
| Chromium | mg/kg | 360.0 | 370.0 | 3 | |
| Copper | mg/kg | 2.100 | 2.300 | 6 | |
| Iron | mg/kg | 7700 | 7900 | 3 | |
| Lead | mg/kg | 3.900 | 4.000 | 5 | |
| Magnesium | mg/kg | 250.0 | 260.0 | 4 | |
| Manganese | mg/kg | 32.00 | 32.00 | 1 | |
| Molybdenum | mg/kg | ND | ND | NC | |
| Nickel | mg/kg | 2.700 | 2.800 | 6 | |
| Potassium | mg/kg | 210.0 | 220.0 | 6 | |
| Selenium | mg/kg | ND | ND | NC | |
| Silver | mg/kg | ND | ND | NC | |
| Sodium | mg/kg | ND | ND | NC | |
| Zinc | mg/kg | 6.600 | 6.800 | 3 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

---

QC Batch: 148904 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Trace ICP Metals, TCLP Leach.
Associated Lab Samples: 926603150

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METHOD BLANK: 926610304
Associated Lab Samples: 926603150

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/l | ND | 0.025 | |
| Barium | mg/l | ND | 0.025 | |
| Boron | mg/l | ND | 0.050 | |
| Cadmium | mg/l | ND | 0.0050 | |
| Calcium | mg/l | ND | 0.50 | |
| Chromium | mg/l | ND | 0.010 | |
| Copper | mg/l | ND | 0.010 | |
| Iron | mg/l | ND | 0.25 | |
| Lead | mg/l | ND | 0.025 | |
| Magnesium | mg/l | ND | 0.50 | |
| Manganese | mg/l | ND | 0.025 | |
| Molybdenum | mg/l | ND | 0.025 | |
| Nickel | mg/l | ND | 0.025 | |
| Potassium | mg/l | ND | 5.0 | |
| Selenium | mg/l | ND | 0.025 | |
| Silver | mg/l | ND | 0.010 | |
| Sodium | mg/l | 3500 | 5.0 | 1 |
| Zinc | mg/l | ND | 0.050 | |

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LABORATORY CONTROL SAMPLE: 926610312

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | 2.500 | 2.450 | 98 | |
| Barium | mg/l | 2.500 | 2.400 | 96 | |
| Boron | mg/l | 2.500 | 2.445 | 98 | |
| Cadmium | mg/l | 2.500 | 2.445 | 98 | |
| Calcium | mg/l | 25.00 | 24.85 | 99 | |
| Chromium | mg/l | 2.500 | 2.460 | 98 | |
| Copper | mg/l | 2.500 | 2.525 | 101 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

LABORATORY CONTROL SAMPLE: 926610312

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/l | 25.00 | 24.30 | 97 | |
| Lead | mg/l | 2.500 | 2.505 | 100 | |
| Magnesium | mg/l | 25.00 | 24.40 | 98 | |
| Manganese | mg/l | 2.500 | 2.395 | 96 | |
| Molybdenum | mg/l | 2.500 | 2.555 | 102 | |
| Nickel | mg/l | 2.500 | 2.430 | 97 | |
| Potassium | mg/l | 25.00 | 41.75 | 167 | |
| Selenium | mg/l | 2.500 | 2.485 | 99 | |
| Silver | mg/l | 1.250 | 1.260 | 101 | |
| Sodium | mg/l | 25.00 | 3340 | 13400 | |
| Zinc | mg/l | 2.500 | 2.535 | 101 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926610320 926610338

| Parameter | Units | 926603689 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0.00635 | 2.500 | 1.925 | 2.355 | 77 | 94 | 20 | |
| Barium | mg/l | 0.3055 | 2.500 | 2.130 | 2.570 | 73 | 91 | 19 | 2 |
| Boron | mg/l | | 2.500 | 2.015 | 2.455 | | | 20 | |
| Cadmium | mg/l | 0.00019 | 2.500 | 1.875 | 2.270 | 75 | 91 | 19 | |
| Calcium | mg/l | | 25.00 | 590.0 | 645.0 | | | 9 | |
| Chromium | mg/l | 0.1200 | 2.500 | 2.010 | 2.420 | 76 | 92 | 19 | |
| Copper | mg/l | | 2.500 | 1.990 | 2.430 | | | 20 | |
| Iron | mg/l | | 25.00 | 19.00 | 22.85 | | | 18 | |
| Lead | mg/l | 0.00655 | 2.500 | 1.970 | 2.385 | 78 | 95 | 19 | |
| Magnesium | mg/l | | 25.00 | 29.15 | 34.20 | | | 16 | |
| Manganese | mg/l | | 2.500 | 2.060 | 2.480 | | | 19 | |
| Molybdenum | mg/l | | 2.500 | 1.990 | 2.415 | | | 19 | |
| Nickel | mg/l | | 2.500 | 1.880 | 2.275 | | | 19 | |
| Potassium | mg/l | | 25.00 | 40.25 | 49.25 | | | 20 | |
| Selenium | mg/l | 0.02365 | 2.500 | 1.985 | 2.400 | 78 | 95 | 19 | |
| Silver | mg/l | 0 | 1.250 | 1.000 | 1.220 | 80 | 98 | 20 | |
| Sodium | mg/l | | 25.00 | 2865 | 3285 | | | 14 | |
| Zinc | mg/l | | 2.500 | 2.015 | 2.435 | | | 19 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

---

QC Batch: 148841 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 926603150

---

SAMPLE DUPLICATE: 926607425

| Parameter | Units | 926604968 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Percent Moisture | % | 15.20 | 13.40 | 12 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

---

QC Batch: 149026 Analysis Method: EPA 375.4 Modified
QC Batch Method: EPA 375.4 Modified Analysis Description: Sulfate, Total, Soil
Associated Lab Samples: 926603150

---

METHOD BLANK: 926616004
Associated Lab Samples: 926603150

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Sulfate | mg/kg | ND | 100 | |

---

LABORATORY CONTROL SAMPLE: 926616012

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000.00 | 1968 | 98 | |

---

MATRIX SPIKE: 926616038

| Parameter | Units | 926603150 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 121600 | 3209.00 | 173000 | 1601 | 2 |

---

SAMPLE DUPLICATE: 926616020

| Parameter | Units | 926603150 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 120000 | 150000 | 22 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92112526
Client Project ID: Asheville

---

QC Batch: 149452 Analysis Method: EPA 365.2
QC Batch Method: EPA 365.2 Analysis Description: Phosphorus, Total, Soil
Associated Lab Samples: 926603150

---

METHOD BLANK: 926634544
Associated Lab Samples: 926603150

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 10.0 | |

---

LABORATORY CONTROL SAMPLE: 926634551

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20.00 | 20.62 | 103 | |

---

MATRIX SPIKE: 926634569

| Parameter | Units | 926603150 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 4677 | 31.46 | 3770 | 0 | 2 |

---

SAMPLE DUPLICATE: 926634577

| Parameter | Units | 926616699 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 9300 | 9460 | 2 | |



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Lab Project Number: 92112526
Client Project ID: Asheville

## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|---|---|
| LCS(D) | Laboratory Control Sample (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| DUP | Sample Duplicate |
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| RPD | Relative Percent Difference |
| [1] | Sodium can not be analyzed by TCLP method because the TCLP extraction fluid contains Sodium Hydroxide, resulting in a false Sodium result. |
| [2] | The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |



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May 17, 2006

Ms. Diane Elledge
Progress Energy
200 CP&L Drive
CT Site
Arden, NC 28704

RE: Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

Dear Ms. Elledge:

Enclosed are the analytical results for sample(s) received by the laboratory on May 4, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

Solid results are reported on a dry weight basis

Lab Sample No: 926942350 Project Sample Number: 92118637-001 Date Collected: 05/02/06 15:30
Client Sample ID: WWT FILTER CAKE FROM PRESS B Matrix: Soil Date Received: 05/04/06 08:30

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | | |
| Trace ICP Metals, TCLP Leach. | Method: EPA 6010 | | | | | | | |
| Date Digested | 05/05/06 14:00 | | | 05/05/06 14:00 | | | | |
| Trace ICP Metals, TCLP Leach. | Prep/Method: EPA 3010 / EPA 6010 | | | | | | | |
| Arsenic | ND | mg/l | 0.025 | 05/06/06 23:08 | JDA1 | 7440-38-2 | | |
| Barium | 0.10 | mg/l | 0.025 | 05/06/06 23:08 | JDA1 | 7440-39-3 | | |
| Boron | 2.8 | mg/l | 0.050 | 05/06/06 23:08 | JDA1 | 7440-42-8 | | |
| Cadmium | ND | mg/l | 0.0050 | 05/06/06 23:08 | JDA1 | 7440-43-9 | | |
| Calcium | 1100 | mg/l | 0.50 | 05/06/06 23:08 | JDA1 | 7440-70-2 | | |
| Chromium | 0.010 | mg/l | 0.010 | 05/06/06 23:08 | JDA1 | 7440-47-3 | | |
| Copper | 0.065 | mg/l | 0.010 | 05/06/06 23:08 | JDA1 | 7440-50-8 | | |
| Iron | ND | mg/l | 0.25 | 05/06/06 23:08 | JDA1 | 7439-89-6 | | |
| Lead | ND | mg/l | 0.025 | 05/06/06 23:08 | JDA1 | 7439-92-1 | | |
| Magnesium | 34. | mg/l | 0.50 | 05/06/06 23:08 | JDA1 | 7439-95-4 | | |
| Manganese | 0.48 | mg/l | 0.025 | 05/06/06 23:08 | JDA1 | 7439-96-5 | | |
| Molybdenum | ND | mg/l | 0.025 | 05/06/06 23:08 | JDA1 | 7439-98-7 | | |
| Nickel | 0.086 | mg/l | 0.025 | 05/06/06 23:08 | JDA1 | 7440-02-0 | | |
| Potassium | 5.3 | mg/l | 5.0 | 05/06/06 23:08 | JDA1 | 7440-09-7 | | |
| Selenium | 0.14 | mg/l | 0.025 | 05/06/06 23:08 | JDA1 | 7782-49-2 | | |
| Silver | ND | mg/l | 0.010 | 05/06/06 23:08 | JDA1 | 7440-22-4 | | |
| Sodium | 3500 | mg/l | 5.0 | 05/06/06 23:08 | JDA1 | 7440-23-5 | 1 | |
| Zinc | 0.92 | mg/l | 0.050 | 05/06/06 23:08 | JDA1 | 7440-66-6 | | |
| Date Digested | 05/07/06 08:30 | | | 05/07/06 08:30 | | | | |
| Metals, Trace ICP | Prep/Method: EPA 3050 / EPA 6010 | | | | | | | |
| Arsenic | 40. | mg/kg | 0.68 | 05/08/06 21:33 | ALV | 7440-38-2 | | |
| Barium | 310 | mg/kg | 0.68 | 05/08/06 21:33 | ALV | 7440-39-3 | | |
| Boron | 100 | mg/kg | 1.4 | 05/08/06 21:33 | ALV | 7440-42-8 | | |
| Cadmium | ND | mg/kg | 0.14 | 05/08/06 21:33 | ALV | 7440-43-9 | | |
| Calcium | 120000 | mg/kg | 14. | 05/08/06 21:33 | ALV | 7440-70-2 | | |
| Chromium | 65. | mg/kg | 0.27 | 05/08/06 21:33 | ALV | 7440-47-3 | | |
| Copper | 66. | mg/kg | 0.27 | 05/08/06 21:33 | ALV | 7440-50-8 | | |
| Iron | 30000 | mg/kg | 6.8 | 05/08/06 21:33 | ALV | 7439-89-6 | | |
| Lead | 24. | mg/kg | 0.68 | 05/08/06 21:33 | ALV | 7439-92-1 | | |
| Magnesium | 6400 | mg/kg | 14. | 05/08/06 21:33 | ALV | 7439-95-4 | | |
| Manganese | 1600 | mg/kg | 0.68 | 05/08/06 21:33 | ALV | 7439-96-5 | | |
| Molybdenum | 8.0 | mg/kg | 0.68 | 05/08/06 21:33 | ALV | 7439-98-7 | | |



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Fax: 828.252.4618

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

Lab Sample No: 926942350 Project Sample Number: 92118637-001 Date Collected: 05/02/06 15:30
Client Sample ID: WWT FILTER CAKE FROM PRESS B Matrix: Soil Date Received: 05/04/06 08:30

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| Nickel | 47. | mg/kg | 0.68 | 05/08/06 21:33 | ALV | 7440-02-0 | | |
| Potassium | 7100 | mg/kg | 140 | 05/08/06 21:33 | ALV | 7440-09-7 | | |
| Selenium | 24. | mg/kg | 0.68 | 05/08/06 21:33 | ALV | 7782-49-2 | | |
| Silver | ND | mg/kg | 0.27 | 05/08/06 21:33 | ALV | 7440-22-4 | | |
| Sodium | 610 | mg/kg | 140 | 05/08/06 21:33 | ALV | 7440-23-5 | | |
| Zinc | 120 | mg/kg | 1.4 | 05/08/06 21:33 | ALV | 7440-66-6 | | |
| Date Digested | 05/05/06 11:00 | | | 05/05/06 11:00 | | | | |
| Mercury, CVAAS, TCLP Leachate | Method: EPA 7470 | | | | | | | |
| Mercury | ND | mg/l | 0.00020 | 05/10/06 09:44 | ALV | 7439-97-6 | | |
| Mercury, CVAAS, in Soil | Method: EPA 7471 | | | | | | | |
| Mercury | 1.4 | mg/kg | 0.066 | 05/11/06 11:58 | ALV | 7439-97-6 | | |
| **Wet Chemistry** | | | | | | | | |
| Percent Moisture | Method: % Moisture | | | | | | | |
| Percent Moisture | 34.8 | % | | 05/10/06 10:05 | KDF | | | |
| Phosphorus, Total, Soil | Method: EPA 365.2 | | | | | | | |
| Phosphorus | 189. | mg/kg | 76.6 | 05/16/06 09:00 | BMF | 7723-14-0 | | |
| Sulfate, Total, Soil | Method: EPA 375.4 Modified | | | | | | | |
| Sulfate | 64000 | mg/kg | 32000 | 05/12/06 08:55 | BMF | | | |



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Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

## PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

| | |
|---|---|
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| [1] | Sodium present in TCLP Extraction Fluid. |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

---

QC Batch: 156603 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 926942350

---

METHOD BLANK: 926953415
Associated Lab Samples: 926942350

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/l | ND | 0.0002 | |

---

LABORATORY CONTROL SAMPLE: 926953423

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.0025 | 0.0026 | 105 | |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926953431 926953449

| Parameter | Units | 926896804 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/l | 0 | 0.0025 | 0.0043 | 0.0042 | 171 | 168 | 2 | 1,1 |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

---

QC Batch: 156911 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: Mercury, CVAAS, in Soil
Associated Lab Samples: 926942350

---

METHOD BLANK: 926967555
Associated Lab Samples: 926942350

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

---

LABORATORY CONTROL SAMPLE: 926967563

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.0667 | 0.0648 | 97 | |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926967787 926967795

| Parameter | Units | 926928516 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.2224 | 0.0790 | 0.6886 | 0.6567 | 590 | 500 | 5 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

---

QC Batch: 156482 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: Metals, Trace ICP
Associated Lab Samples: 926942350

---

METHOD BLANK: 926946534
Associated Lab Samples: 926942350

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10. | |
| Chromium | mg/kg | ND | 0.20 | |
| Copper | mg/kg | ND | 0.20 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10. | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 100 | |
| Selenium | mg/kg | ND | 0.50 | |
| Silver | mg/kg | ND | 0.20 | |
| Sodium | mg/kg | ND | 100 | |
| Zinc | mg/kg | ND | 1.0 | |

---

LABORATORY CONTROL SAMPLE: 926946542

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 50.00 | 57.40 | 115 | |
| Barium | mg/kg | 50.00 | 57.80 | 116 | |
| Boron | mg/kg | 50.00 | 49.60 | 99 | |
| Cadmium | mg/kg | 50.00 | 57.70 | 115 | |
| Calcium | mg/kg | 500.00 | 560.0 | 112 | |
| Chromium | mg/kg | 50.00 | 58.30 | 117 | |
| Copper | mg/kg | 50.00 | 57.30 | 115 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

LABORATORY CONTROL SAMPLE: 926946542

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/kg | 500.00 | 561.0 | 112 | |
| Lead | mg/kg | 50.00 | 57.10 | 114 | |
| Magnesium | mg/kg | 500.00 | 549.0 | 110 | |
| Manganese | mg/kg | 50.00 | 58.10 | 116 | |
| Molybdenum | mg/kg | 50.00 | 52.10 | 104 | |
| Nickel | mg/kg | 50.00 | 58.00 | 116 | |
| Potassium | mg/kg | 500.00 | 497.0 | 99 | |
| Selenium | mg/kg | 50.00 | 56.20 | 112 | |
| Silver | mg/kg | 25.00 | 25.00 | 100 | |
| Sodium | mg/kg | 500.00 | 486.0 | 97 | |
| Zinc | mg/kg | 50.00 | 58.20 | 116 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926946559 926946567

| Parameter | Units | 926936204 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 11.33 | 68.67 | 83.03 | 78.79 | 104 | 104 | 5 | |
| Barium | mg/kg | 24.97 | 68.67 | 98.76 | 93.64 | 108 | 106 | 5 | |
| Boron | mg/kg | 1.012 | 68.67 | 53.69 | 53.69 | 77 | 81 | 0 | |
| Cadmium | mg/kg | 0 | 68.67 | 61.56 | 62.80 | 90 | 97 | 2 | |
| Calcium | mg/kg | 1007 | 686.70 | 1736 | 1611 | 106 | 93 | 7 | |
| Chromium | mg/kg | 25.57 | 68.67 | 112.1 | 94.52 | 126 | 106 | 17 | 1 |
| Copper | mg/kg | 12.97 | 68.67 | 85.78 | 85.40 | 106 | 112 | 0 | |
| Iron | mg/kg | 32180 | 686.70 | 38710 | 33590 | 951 | 218 | 14 | 1 |
| Lead | mg/kg | 21.01 | 68.67 | 97.64 | 89.77 | 112 | 106 | 8 | |
| Magnesium | mg/kg | 425.0 | 686.70 | 1169 | 1116 | 108 | 106 | 5 | |
| Manganese | mg/kg | 423.8 | 68.67 | 879.0 | 539.4 | 663 | 178 | 48 | 1,2 |
| Molybdenum | mg/kg | 1.101 | 68.67 | 60.43 | 58.43 | 86 | 88 | 3 | |
| Nickel | mg/kg | 8.992 | 68.67 | 77.66 | 77.79 | 100 | 106 | 0 | |
| Potassium | mg/kg | 336.2 | 686.70 | 1144 | 1108 | 118 | 119 | 3 | |
| Selenium | mg/kg | 0 | 68.67 | 62.55 | 61.93 | 91 | 95 | 1 | |
| Silver | mg/kg | 0 | 34.34 | 29.84 | 30.09 | 87 | 93 | 1 | |
| Sodium | mg/kg | 21.25 | 686.70 | 721.7 | 717.9 | 102 | 107 | 1 | |
| Zinc | mg/kg | 30.13 | 68.67 | 106.0 | 102.9 | 110 | 112 | 3 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

---

QC Batch: 156589 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Trace ICP Metals, TCLP Leach.
Associated Lab Samples: 926942350

---

METHOD BLANK: 926952953
Associated Lab Samples: 926942350

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/l | ND | 0.025 | |
| Barium | mg/l | ND | 0.025 | |
| Boron | mg/l | ND | 0.050 | |
| Cadmium | mg/l | ND | 0.0050 | |
| Calcium | mg/l | ND | 0.50 | |
| Chromium | mg/l | ND | 0.010 | |
| Copper | mg/l | ND | 0.010 | |
| Iron | mg/l | ND | 0.25 | |
| Lead | mg/l | ND | 0.025 | |
| Magnesium | mg/l | ND | 0.50 | |
| Manganese | mg/l | ND | 0.025 | |
| Molybdenum | mg/l | ND | 0.025 | |
| Nickel | mg/l | ND | 0.025 | |
| Potassium | mg/l | ND | 5.0 | |
| Selenium | mg/l | ND | 0.025 | |
| Silver | mg/l | ND | 0.010 | |
| Zinc | mg/l | ND | 0.050 | |

---

LABORATORY CONTROL SAMPLE: 926952961

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | 2.500 | 2.735 | 109 | |
| Barium | mg/l | 2.500 | 2.780 | 111 | |
| Boron | mg/l | 2.500 | 2.465 | 99 | |
| Cadmium | mg/l | 2.500 | 2.735 | 109 | |
| Calcium | mg/l | 25.00 | 26.15 | 105 | |
| Chromium | mg/l | 2.500 | 2.805 | 112 | |
| Copper | mg/l | 2.500 | 2.830 | 113 | |
| Iron | mg/l | 25.00 | 25.90 | 104 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

LABORATORY CONTROL SAMPLE: 926952961

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Lead | mg/l | 2.500 | 2.715 | 109 | |
| Magnesium | mg/l | 25.00 | 25.35 | 101 | |
| Manganese | mg/l | 2.500 | 2.745 | 110 | |
| Molybdenum | mg/l | 2.500 | 2.330 | 93 | |
| Nickel | mg/l | 2.500 | 2.715 | 109 | |
| Potassium | mg/l | 25.00 | 44.00 | 176 | |
| Selenium | mg/l | 2.500 | 2.620 | 105 | |
| Silver | mg/l | 1.250 | 1.210 | 97 | |
| Zinc | mg/l | 2.500 | 2.880 | 115 | |

MATRIX SPIKE: 926952979

| Parameter | Units | 926896804 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0.03570 | 2.500 | 2.680 | 106 | |
| Barium | mg/l | 0.02150 | 2.500 | 2.745 | 109 | |
| Boron | mg/l | 1.835 | 2.500 | 4.310 | 99 | |
| Cadmium | mg/l | 1.670 | 2.500 | 4.385 | 109 | |
| Calcium | mg/l | 55.00 | 25.00 | 82.50 | 110 | |
| Chromium | mg/l | 0.03235 | 2.500 | 2.760 | 109 | |
| Copper | mg/l | 6.650 | 2.500 | 9.700 | 122 | |
| Iron | mg/l | 21.85 | 25.00 | 47.90 | 104 | |
| Lead | mg/l | 51.80 | 2.500 | 55.50 | 148 | 1 |
| Magnesium | mg/l | 13.30 | 25.00 | 38.55 | 101 | |
| Manganese | mg/l | 62.00 | 2.500 | 66.50 | 180 | 1 |
| Molybdenum | mg/l | 0.00088 | 2.500 | 2.295 | 92 | |
| Nickel | mg/l | 1.280 | 2.500 | 3.965 | 107 | |
| Potassium | mg/l | 2.220 | 25.00 | 45.45 | 173 | 1 |
| Selenium | mg/l | 0.04755 | 2.500 | 2.615 | 103 | |
| Silver | mg/l | 0 | 1.250 | 1.180 | 94 | |
| Zinc | mg/l | 147.0 | 2.500 | 149.0 | 80 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

SAMPLE DUPLICATE: 926952987

| Parameter | Units | 926927641 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | ND | ND | NC | |
| Barium | mg/l | 0.7300 | 0.7200 | 1 | |
| Boron | mg/l | 0.06600 | 0.06800 | 3 | |
| Cadmium | mg/l | ND | ND | NC | |
| Calcium | mg/l | 6.700 | 6.600 | 2 | |
| Chromium | mg/l | ND | ND | NC | |
| Copper | mg/l | ND | ND | NC | |
| Iron | mg/l | ND | ND | NC | |
| Lead | mg/l | 0.6400 | 0.6200 | 2 | |
| Magnesium | mg/l | 1.100 | 1.000 | 2 | |
| Manganese | mg/l | 1.400 | 1.400 | 1 | |
| Molybdenum | mg/l | ND | ND | NC | |
| Nickel | mg/l | ND | ND | NC | |
| Potassium | mg/l | 7.600 | 7.600 | 1 | |
| Selenium | mg/l | 0.02600 | ND | NC | |
| Silver | mg/l | ND | ND | NC | |
| Sodium | mg/l | 3400 | 3400 | 0 | |
| Zinc | mg/l | 0.1900 | 0.1700 | 13 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

---

QC Batch: 156811 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 926942350

---

SAMPLE DUPLICATE: 926961640

| Parameter | Units | 926954496 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Percent Moisture | % | 27.40 | 27.80 | 1 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

---

QC Batch: 157053 Analysis Method: EPA 375.4 Modified
QC Batch Method: EPA 375.4 Modified Analysis Description: Sulfate, Total, Soil
Associated Lab Samples: 926942350

---

METHOD BLANK: 926973652
Associated Lab Samples: 926942350

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Sulfate | mg/kg | ND | 500 | |

---

LABORATORY CONTROL SAMPLE: 926973660

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000.00 | 1939 | 97 | |

---

MATRIX SPIKE: 926973686

| Parameter | Units | 926942350 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 63640 | 3005.00 | 30160 | 0 | 1 |

---

SAMPLE DUPLICATE: 926973678

| Parameter | Units | 926942350 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 64000 | 65000 | 3 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

---

QC Batch: 157266 Analysis Method: EPA 365.2
QC Batch Method: EPA 365.2 Analysis Description: Phosphorus, Total, Soil
Associated Lab Samples: 926942350

---

METHOD BLANK: 926982158
Associated Lab Samples: 926942350

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 10.0 | |

---

LABORATORY CONTROL SAMPLE: 926982166

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20.00 | 23.98 | 120 | |

---

MATRIX SPIKE: 926982174

| Parameter | Units | 926942350 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 188.6 | 30.66 | 189.5 | 3 | 1 |

---

SAMPLE DUPLICATE: 926982182

| Parameter | Units | 926965526 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 42.60 | 44.90 | 5 | |



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Lab Project Number: 92118637
Client Project ID: WWT Filter Cake 5/2/06

## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|---|---|
| LCS(D) | Laboratory Control Sample (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| DUP | Sample Duplicate |
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| RPD | Relative Percent Difference |
| [1] | The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| [2] | The calculated RPD was outside QC acceptance limits. |



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August 02, 2006

Ms. Diane Elledge
Progress Energy
200 CP&L Drive
CT Site
Arden, NC 28704

RE: Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

Dear Ms. Elledge:

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
(828) 254-7176
Project Manager

Enclosures

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Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

Solid results are reported on a dry weight basis

Lab Sample No: 927222695 Project Sample Number: 92123711-001 Date Collected: 07/21/06 04:00
Client Sample ID: WWT FILTER CAKE FROM PRESS A Matrix: Soil Date Received: 07/21/06 12:00

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | | |
| Trace ICP Metals, TCLP Leach. | Method: EPA 6010 | | | | | | | |
| Date Digested | 07/24/06 13:30 | | | 07/24/06 13:30 | | | | |
| Trace ICP Metals, TCLP Leach. | Prep/Method: EPA 3010 / EPA 6010 | | | | | | | |
| Arsenic | ND | mg/l | 0.025 | 07/26/06 04:58 | ALV | 7440-38-2 | | |
| Barium | 0.13 | mg/l | 0.025 | 07/26/06 04:58 | ALV | 7440-39-3 | | |
| Boron | 2.6 | mg/l | 0.050 | 07/26/06 04:58 | ALV | 7440-42-8 | | |
| Cadmium | ND | mg/l | 0.0050 | 07/26/06 04:58 | ALV | 7440-43-9 | | |
| Calcium | 1000 | mg/l | 0.50 | 07/26/06 04:58 | ALV | 7440-70-2 | | |
| Chromium | ND | mg/l | 0.010 | 07/26/06 04:58 | ALV | 7440-47-3 | | |
| Copper | 0.12 | mg/l | 0.010 | 07/26/06 04:58 | ALV | 7440-50-8 | | |
| Iron | ND | mg/l | 0.25 | 07/26/06 04:58 | ALV | 7439-89-6 | | |
| Lead | 0.045 | mg/l | 0.025 | 07/26/06 04:58 | ALV | 7439-92-1 | | |
| Magnesium | 39. | mg/l | 0.50 | 07/26/06 04:58 | ALV | 7439-95-4 | | |
| Manganese | 8.6 | mg/l | 0.025 | 07/26/06 04:58 | ALV | 7439-96-5 | | |
| Molybdenum | ND | mg/l | 0.025 | 07/26/06 04:58 | ALV | 7439-98-7 | | |
| Nickel | 0.30 | mg/l | 0.025 | 07/26/06 04:58 | ALV | 7440-02-0 | | |
| Potassium | ND | mg/l | 5.0 | 07/26/06 04:58 | ALV | 7440-09-7 | | |
| Selenium | 0.19 | mg/l | 0.025 | 07/26/06 04:58 | ALV | 7782-49-2 | | |
| Silver | ND | mg/l | 0.010 | 07/26/06 04:58 | ALV | 7440-22-4 | | |
| Sodium | 3200 | mg/l | 5.0 | 07/26/06 04:58 | ALV | 7440-23-5 | 1 | |
| Zinc | 0.89 | mg/l | 0.050 | 07/26/06 04:58 | ALV | 7440-66-6 | | |
| Date Digested | 07/25/06 12:00 | | | 07/25/06 12:00 | | | | |
| Metals, Trace ICP | Prep/Method: EPA 3050 / EPA 6010 | | | | | | | |
| Arsenic | 1.5 | mg/kg | 0.74 | 07/27/06 11:29 | ALV | 7440-38-2 | | |
| Barium | 41. | mg/kg | 0.74 | 07/27/06 11:29 | ALV | 7440-39-3 | | |
| Boron | ND | mg/kg | 1.5 | 07/27/06 11:29 | ALV | 7440-42-8 | | |
| Cadmium | ND | mg/kg | 0.15 | 07/27/06 11:29 | ALV | 7440-43-9 | | |
| Calcium | 1000 | mg/kg | 15. | 07/27/06 11:29 | ALV | 7440-70-2 | | |
| Chromium | 12. | mg/kg | 0.30 | 07/27/06 11:29 | ALV | 7440-47-3 | | |
| Copper | 4.8 | mg/kg | 0.30 | 07/27/06 11:29 | ALV | 7440-50-8 | | |
| Iron | 6100 | mg/kg | 7.4 | 07/27/06 11:29 | ALV | 7439-89-6 | | |
| Lead | 13. | mg/kg | 0.74 | 07/27/06 11:29 | ALV | 7439-92-1 | | |
| Magnesium | 1600 | mg/kg | 15. | 07/27/06 11:29 | ALV | 7439-95-4 | | |
| Manganese | 58. | mg/kg | 0.74 | 07/27/06 11:29 | ALV | 7439-96-5 | | |
| Molybdenum | ND | mg/kg | 0.74 | 07/27/06 11:29 | ALV | 7439-98-7 | | |



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Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

Lab Sample No: 927222695 Project Sample Number: 92123711-001 Date Collected: 07/21/06 04:00
Client Sample ID: WWT FILTER CAKE FROM PRESS A Matrix: Soil Date Received: 07/21/06 12:00

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| Nickel | 4.0 | mg/kg | 0.74 | 07/27/06 11:29 | ALV | 7440-02-0 | | |
| Potassium | 900 | mg/kg | 150 | 07/27/06 11:29 | ALV | 7440-09-7 | | |
| Selenium | ND | mg/kg | 0.74 | 07/27/06 11:29 | ALV | 7782-49-2 | | |
| Silver | ND | mg/kg | 0.30 | 07/27/06 11:29 | ALV | 7440-22-4 | | |
| Sodium | ND | mg/kg | 150 | 07/27/06 11:29 | ALV | 7440-23-5 | | |
| Zinc | 15. | mg/kg | 1.5 | 07/27/06 11:29 | ALV | 7440-66-6 | | |
| Date Digested | 07/26/06 12:15 | | | 07/26/06 12:15 | | | | |
| Mercury, CVAAS, TCLP Leachate | Method: EPA 7470 | | | | | | | |
| Mercury | 0.0038 | mg/l | 0.00020 | 07/25/06 13:04 | ALV | 7439-97-6 | | |
| Mercury, CVAAS, in Soil | Method: EPA 7471 | | | | | | | |
| Mercury | 2.3 | mg/kg | 0.37 | 07/25/06 13:40 | ALV | 7439-97-6 | | |
| **Wet Chemistry** | | | | | | | | |
| Percent Moisture | Method: % Moisture | | | | | | | |
| Percent Moisture | 36.1 | % | | 07/27/06 09:04 | TNM | | | |
| Phosphorus, Total, Soil | Method: EPA 365.2 | | | | | | | |
| Phosphorus | 263. | mg/kg | 78.2 | 08/01/06 17:22 | SAJ | 7723-14-0 | | |
| Sulfate, Total, Soil | Method: EPA 375.4 Modified | | | | | | | |
| Sulfate | 170000 | mg/kg | 27000 | 07/28/06 09:26 | BMF | | | |



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Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

## PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

| | |
|---|---|
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| [1] | Sample extract contains sodium. |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

---

QC Batch: 163002 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 927222695

---

METHOD BLANK: 927230656
Associated Lab Samples: 927222695

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/l | ND | 0.0002 | |

---

LABORATORY CONTROL SAMPLE: 927230664

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.0025 | 0.0025 | 99 | |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927230672 927230680

| Parameter | Units | 927225649 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/l | 0 | 0.0025 | 0.0020 | 0.0018 | 78 | 73 | 7 | 1 |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

---

QC Batch: 163015 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: Mercury, CVAAS, in Soil
Associated Lab Samples: 927222695

---

METHOD BLANK: 927231209
Associated Lab Samples: 927222695

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

---

LABORATORY CONTROL SAMPLE: 927231217

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.0025 | 0.0025 | 100 | |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927231225 927231233

| Parameter | Units | 927223875 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0 | 0.3055 | 0.2639 | 0.3226 | 86 | 96 | 20 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

---

QC Batch: 163004 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Trace ICP Metals, TCLP Leach.
Associated Lab Samples: 927222695

---

METHOD BLANK: 927230748
Associated Lab Samples: 927222695

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/l | ND | 0.025 | |
| Barium | mg/l | ND | 0.025 | |
| Boron | mg/l | ND | 0.050 | |
| Cadmium | mg/l | ND | 0.0050 | |
| Calcium | mg/l | ND | 0.50 | |
| Chromium | mg/l | ND | 0.010 | |
| Copper | mg/l | ND | 0.010 | |
| Iron | mg/l | ND | 0.25 | |
| Lead | mg/l | ND | 0.025 | |
| Magnesium | mg/l | ND | 0.50 | |
| Manganese | mg/l | ND | 0.025 | |
| Molybdenum | mg/l | ND | 0.025 | |
| Nickel | mg/l | ND | 0.025 | |
| Potassium | mg/l | ND | 5.0 | |
| Selenium | mg/l | ND | 0.025 | |
| Silver | mg/l | ND | 0.010 | |
| Sodium | mg/l | 3300 | 5.0 | |
| Zinc | mg/l | ND | 0.050 | |

---

LABORATORY CONTROL SAMPLE: 927230755

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | 2.500 | 2.430 | 97 | |
| Barium | mg/l | 2.500 | 2.365 | 95 | |
| Boron | mg/l | 2.500 | 2.450 | 98 | |
| Cadmium | mg/l | 2.500 | 2.405 | 96 | |
| Calcium | mg/l | 25.00 | 23.25 | 93 | |
| Chromium | mg/l | 2.500 | 2.410 | 96 | |
| Copper | mg/l | 2.500 | 2.455 | 98 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

LABORATORY CONTROL SAMPLE: 927230755

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/l | 25.00 | 23.15 | 93 | |
| Lead | mg/l | 2.500 | 2.430 | 97 | |
| Magnesium | mg/l | 25.00 | 22.80 | 91 | |
| Manganese | mg/l | 2.500 | 2.380 | 95 | |
| Molybdenum | mg/l | 2.500 | 2.525 | 101 | |
| Nickel | mg/l | 2.500 | 2.320 | 93 | |
| Potassium | mg/l | 25.00 | 39.70 | 159 | |
| Selenium | mg/l | 2.500 | 2.515 | 101 | |
| Silver | mg/l | 1.250 | 1.225 | 98 | |
| Sodium | mg/l | 25.00 | 3115 | 12500 | |
| Zinc | mg/l | 2.500 | 2.500 | 100 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927230763 927230771

| Parameter | Units | 927225664 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0 | 2.500 | 2.410 | 2.440 | 96 | 98 | 1 | |
| Barium | mg/l | 0.1660 | 2.500 | 2.490 | 2.530 | 93 | 95 | 2 | |
| Boron | mg/l | 0.08700 | 2.500 | 2.520 | 2.565 | 97 | 99 | 2 | |
| Cadmium | mg/l | 0.00027 | 2.500 | 2.350 | 2.380 | 94 | 95 | 1 | |
| Calcium | mg/l | 160.5 | 25.00 | 181.0 | 205.0 | 82 | 178 | 12 | 1 |
| Chromium | mg/l | 0.00995 | 2.500 | 2.380 | 2.400 | 95 | 96 | 1 | |
| Copper | mg/l | 0.00505 | 2.500 | 2.435 | 2.460 | 97 | 98 | 1 | |
| Iron | mg/l | 0.2400 | 25.00 | 22.95 | 23.15 | 91 | 92 | 1 | |
| Lead | mg/l | 0.02990 | 2.500 | 2.400 | 2.430 | 95 | 96 | 1 | |
| Magnesium | mg/l | 3.505 | 25.00 | 25.90 | 26.60 | 90 | 92 | 3 | |
| Manganese | mg/l | 0.1575 | 2.500 | 2.485 | 2.530 | 93 | 95 | 2 | |
| Molybdenum | mg/l | 0 | 2.500 | 2.500 | 2.525 | 100 | 101 | 1 | |
| Nickel | mg/l | 0.02915 | 2.500 | 2.285 | 2.315 | 90 | 91 | 1 | |
| Potassium | mg/l | 2.745 | 25.00 | 41.95 | 43.90 | 157 | 165 | 5 | |
| Selenium | mg/l | 0.02310 | 2.500 | 2.485 | 2.495 | 98 | 99 | 0 | |
| Silver | mg/l | 0.00135 | 1.250 | 1.220 | 1.230 | 98 | 98 | 1 | |
| Sodium | mg/l | 3030 | 25.00 | 3030 | 3590 | 0 | 2240 | 17 | |
| Zinc | mg/l | 0.06950 | 2.500 | 2.525 | 2.555 | 98 | 99 | 1 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

---

QC Batch: 163150 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: Metals, Trace ICP
Associated Lab Samples: 927222695

---

METHOD BLANK: 927234955
Associated Lab Samples: 927222695

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10. | |
| Chromium | mg/kg | ND | 0.20 | |
| Copper | mg/kg | ND | 0.20 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10. | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 100 | |
| Selenium | mg/kg | ND | 0.50 | |
| Silver | mg/kg | ND | 0.20 | |
| Sodium | mg/kg | ND | 100 | |
| Zinc | mg/kg | ND | 1.0 | |

---

LABORATORY CONTROL SAMPLE: 927234963

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 50.00 | 52.10 | 104 | |
| Barium | mg/kg | 50.00 | 52.80 | 106 | |
| Boron | mg/kg | 50.00 | 53.60 | 107 | |
| Cadmium | mg/kg | 50.00 | 53.90 | 108 | |
| Calcium | mg/kg | 500.00 | 539.0 | 108 | |
| Chromium | mg/kg | 50.00 | 54.30 | 109 | |
| Copper | mg/kg | 50.00 | 53.00 | 106 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

LABORATORY CONTROL SAMPLE: 927234963

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/kg | 500.00 | 528.0 | 106 | |
| Lead | mg/kg | 50.00 | 52.30 | 105 | |
| Magnesium | mg/kg | 500.00 | 523.0 | 105 | |
| Manganese | mg/kg | 50.00 | 53.80 | 108 | |
| Molybdenum | mg/kg | 50.00 | 55.10 | 110 | |
| Nickel | mg/kg | 50.00 | 53.10 | 106 | |
| Potassium | mg/kg | 500.00 | 487.0 | 97 | |
| Selenium | mg/kg | 50.00 | 51.30 | 103 | |
| Silver | mg/kg | 25.00 | 26.60 | 106 | |
| Sodium | mg/kg | 500.00 | 480.0 | 96 | |
| Zinc | mg/kg | 50.00 | 53.40 | 107 | |

MATRIX SPIKE: 927234971

| Parameter | Units | 927218842 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 0.9523 | 60.78 | 59.29 | 96 | |
| Barium | mg/kg | 27.77 | 60.78 | 84.52 | 93 | |
| Boron | mg/kg | 1.181 | 60.78 | 60.09 | 97 | |
| Cadmium | mg/kg | 0 | 60.78 | 59.40 | 98 | |
| Calcium | mg/kg | 485.7 | 607.80 | 1083 | 98 | |
| Chromium | mg/kg | 4.250 | 60.78 | 66.97 | 103 | |
| Copper | mg/kg | 4.711 | 60.78 | 67.55 | 103 | |
| Iron | mg/kg | 7128 | 607.80 | 9243 | 348 | 1 |
| Lead | mg/kg | 6.026 | 60.78 | 65.37 | 98 | |
| Magnesium | mg/kg | 884.8 | 607.80 | 1674 | 130 | 1 |
| Manganese | mg/kg | 22.04 | 60.78 | 87.16 | 107 | |
| Molybdenum | mg/kg | 0.7758 | 60.78 | 62.04 | 101 | |
| Nickel | mg/kg | 1.518 | 60.78 | 61.81 | 99 | |
| Potassium | mg/kg | 740.9 | 607.80 | 1617 | 144 | 1 |
| Selenium | mg/kg | 0 | 60.78 | 57.57 | 95 | |
| Silver | mg/kg | 0 | 30.39 | 30.28 | 100 | |
| Sodium | mg/kg | 35.42 | 607.80 | 684.6 | 107 | |
| Zinc | mg/kg | 29.12 | 60.78 | 83.60 | 90 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

SAMPLE DUPLICATE: 927234989

| Parameter | Units | 927218859 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 0.6600 | 0.9200 | 33 | 2 |
| Barium | mg/kg | 140.0 | 130.0 | 5 | |
| Boron | mg/kg | ND | ND | NC | |
| Cadmium | mg/kg | ND | ND | NC | |
| Calcium | mg/kg | 3500 | 7400 | 71 | 2 |
| Chromium | mg/kg | 84.00 | 98.00 | 15 | |
| Copper | mg/kg | 68.00 | 75.00 | 11 | |
| Iron | mg/kg | 19000 | 21000 | 12 | |
| Lead | mg/kg | 12.00 | 11.00 | 17 | |
| Magnesium | mg/kg | 7800 | 10000 | 28 | 2 |
| Manganese | mg/kg | 560.0 | 460.0 | 20 | |
| Molybdenum | mg/kg | ND | ND | NC | |
| Nickel | mg/kg | 37.00 | 38.00 | 3 | |
| Potassium | mg/kg | 990.0 | 1000 | 3 | |
| Selenium | mg/kg | ND | ND | NC | |
| Silver | mg/kg | ND | ND | NC | |
| Sodium | mg/kg | ND | ND | NC | |
| Zinc | mg/kg | 62.00 | 67.00 | 8 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

---

QC Batch: 163313 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927222695

---

SAMPLE DUPLICATE: 927241562

| Parameter | Units | 927240275 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Percent Moisture | % | 19.60 | 18.10 | 8 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

---

QC Batch: 163432 Analysis Method: EPA 375.4 Modified
QC Batch Method: EPA 375.4 Modified Analysis Description: Sulfate, Total, Soil
Associated Lab Samples: 927222695

---

METHOD BLANK: 927245902
Associated Lab Samples: 927222695

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Sulfate | mg/kg | ND | 500 | |

---

LABORATORY CONTROL SAMPLE: 927245910

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000.00 | 2048 | 102 | |

---

MATRIX SPIKE: 927245928

| Parameter | Units | 927237636 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 744.2 | 2702.00 | 3240 | 92 | |

---

SAMPLE DUPLICATE: 927245936

| Parameter | Units | 927222695 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 170000 | 170000 | 1 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

---

QC Batch: 163684 Analysis Method: EPA 365.2
QC Batch Method: EPA 365.2 Analysis Description: Phosphorus, Total, Soil
Associated Lab Samples: 927222695

---

METHOD BLANK: 927254854
Associated Lab Samples: 927222695

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 10.0 | |

---

LABORATORY CONTROL SAMPLE: 927254862

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20.00 | 22.84 | 114 | |

---

MATRIX SPIKE: 927254870

| Parameter | Units | 927222695 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 262.7 | 31.29 | 21.39 | 0 | 1 |

---

SAMPLE DUPLICATE: 927254888

| Parameter | Units | 927233536 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 37000 | 31600 | 16 | |



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Lab Project Number: 92123711
Client Project ID: WWT Filter Cake

## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|---|---|
| LCS(D) | Laboratory Control Sample (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| DUP | Sample Duplicate |
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| RPD | Relative Percent Difference |
| [1] | The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| [2] | The calculated RPD was outside QC acceptance limits. |



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September 11, 2006

Ms. Diane Elledge
Progress Energy
200 CP&L Drive
CT Site
Arden, NC 28704

RE: Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

Dear Ms. Elledge:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
(828) 254-7176
Project Manager

Enclosures

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Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

Solid results are reported on a dry weight basis

Lab Sample No: 927368258 Project Sample Number: 92126391-001 Date Collected: 08/28/06 08:00
Client Sample ID: WWT FILTER CAKE FROM PRESS "A" Matrix: Soil Date Received: 08/29/06 15:00

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | | |
| Trace ICP Metals, TCLP Leach. | Method: EPA 6010 | | | | | | | |
| Date Digested | 08/31/06 | | | 08/31/06 | | | | |
| Trace ICP Metals, TCLP Leach. | Prep/Method: EPA 3010 / EPA 6010 | | | | | | | |
| Arsenic | ND | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7440-38-2 | | |
| Barium | 0.074 | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7440-39-3 | | |
| Boron | 3.4 | mg/l | 0.050 | 09/07/06 11:42 | EWS | 7440-42-8 | | |
| Cadmium | ND | mg/l | 0.0050 | 09/07/06 11:42 | EWS | 7440-43-9 | | |
| Calcium | 900 | mg/l | 0.50 | 09/07/06 11:42 | EWS | 7440-70-2 | | |
| Chromium | ND | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7440-47-3 | | |
| Copper | 0.091 | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7440-50-8 | | |
| Iron | ND | mg/l | 0.25 | 09/07/06 11:42 | EWS | 7439-89-6 | | |
| Lead | ND | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7439-92-1 | | |
| Magnesium | 35. | mg/l | 0.50 | 09/07/06 11:42 | EWS | 7439-95-4 | | |
| Manganese | 0.38 | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7439-96-5 | | |
| Molybdenum | ND | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7439-98-7 | | |
| Nickel | 0.088 | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7440-02-0 | | |
| Potassium | ND | mg/l | 5.0 | 09/07/06 11:42 | EWS | 7440-09-7 | | |
| Selenium | 0.13 | mg/l | 0.050 | 09/07/06 11:42 | EWS | 7782-49-2 | | |
| Silver | ND | mg/l | 0.025 | 09/07/06 11:42 | EWS | 7440-22-4 | | |
| Zinc | 1.1 | mg/l | 0.050 | 09/07/06 11:42 | EWS | 7440-66-6 | | |
| Date Digested | 09/01/06 16:40 | | | 09/01/06 16:40 | | | | |
| Metals, Trace ICP | Prep/Method: EPA 3050 / EPA 6010 | | | | | | | |
| Arsenic | 41. | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7440-38-2 | | |
| Barium | 300 | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7440-39-3 | | |
| Boron | 150 | mg/kg | 1.6 | 08/31/06 13:51 | EWS | 7440-42-8 | | |
| Cadmium | 3.9 | mg/kg | 0.16 | 08/31/06 13:51 | EWS | 7440-43-9 | | |
| Calcium | 120000 | mg/kg | 16. | 08/31/06 13:51 | EWS | 7440-70-2 | | |
| Chromium | 69. | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7440-47-3 | | |
| Copper | 66. | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7440-50-8 | | |
| Iron | 25000 | mg/kg | 8.1 | 08/31/06 13:51 | EWS | 7439-89-6 | | |
| Lead | 18. | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7439-92-1 | | |
| Magnesium | 6700 | mg/kg | 16. | 08/31/06 13:51 | EWS | 7439-95-4 | | |
| Manganese | 1500 | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7439-96-5 | | |
| Molybdenum | 8.1 | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7439-98-7 | | |
| Nickel | 48. | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7440-02-0 | | |



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Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

Lab Sample No: 927368258 Project Sample Number: 92126391-001 Date Collected: 08/28/06 08:00
Client Sample ID: WWT FILTER CAKE FROM PRESS "A" Matrix: Soil Date Received: 08/29/06 15:00

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| Potassium | 8400 | mg/kg | 160 | 08/31/06 13:51 | EWS | 7440-09-7 | | |
| Selenium | 84. | mg/kg | 1.6 | 08/31/06 13:51 | EWS | 7782-49-2 | | |
| Silver | ND | mg/kg | 0.81 | 08/31/06 13:51 | EWS | 7440-22-4 | | |
| Sodium | 750 | mg/kg | 160 | 08/31/06 13:51 | EWS | 7440-23-5 | | |
| Zinc | 140 | mg/kg | 1.6 | 08/31/06 13:51 | EWS | 7440-66-6 | | |
| Date Digested | 08/30/06 19:00 | | | 08/30/06 19:00 | | | | |
| Mercury, CVAAS, TCLP Leachate | Method: EPA 7470 | | | | | | | |
| Mercury | 0.0011 | mg/l | 0.00020 | 08/31/06 11:46 | ALV | 7439-97-6 | | |
| Mercury, CVAAS, in Soil | Method: EPA 7471 | | | | | | | |
| Mercury | 1.3 | mg/kg | 0.13 | 08/30/06 12:08 | ALV | 7439-97-6 | | |
| **Wet Chemistry** | | | | | | | | |
| Percent Moisture | Method: % Moisture | | | | | | | |
| Percent Moisture | 35.7 | % | | 08/30/06 08:43 | TNM | | | |
| Phosphorus, Total, Soil | Method: EPA 365.2 | | | | | | | |
| Phosphorus | ND | mg/kg | 16.2 | 09/08/06 20:00 | SAJ | 7723-14-0 | | |
| Sulfate, Total, Soil | Method: EPA 375.4 Modified | | | | | | | |
| Sulfate | 100000 | mg/kg | 21000 | 09/05/06 08:00 | BMF | | | |



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Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

## PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

| | |
|---|---|
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

---

QC Batch: 166311 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: Mercury, CVAAS, in Soil
Associated Lab Samples: 927368258

---

METHOD BLANK: 927369959
Associated Lab Samples: 927368258

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

---

LABORATORY CONTROL SAMPLE: 927369967

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.0667 | 0.0675 | 101 | |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927371583 927371591

| Parameter | Units | 927370551 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.01659 | 0.0625 | 0.0875 | 0.0584 | 114 | 69 | 40 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

---

QC Batch: 166456 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 927368258

---

METHOD BLANK: 927376699
Associated Lab Samples: 927368258

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/l | ND | 0.0002 | |

---

LABORATORY CONTROL SAMPLE: 927376707

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.0025 | 0.0027 | 107 | |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927376723 927376731

| Parameter | Units | 927368258 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/l | 0.00111 | 0.0025 | 0.0041 | 0.0041 | 118 | 118 | 0 | |

---

SAMPLE DUPLICATE: 927376715

| Parameter | Units | 927368258 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.00110 | 0.00110 | 0 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

---

QC Batch: 166420 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: Metals, Trace ICP
Associated Lab Samples: 927368258

---

METHOD BLANK: 927374967
Associated Lab Samples: 927368258

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10. | |
| Chromium | mg/kg | ND | 0.50 | |
| Copper | mg/kg | ND | 0.50 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10. | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 100 | |
| Selenium | mg/kg | ND | 1.0 | |
| Silver | mg/kg | ND | 0.50 | |
| Sodium | mg/kg | ND | 100 | |
| Zinc | mg/kg | ND | 1.0 | |

---

LABORATORY CONTROL SAMPLE: 927374975

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 50.00 | 49.60 | 99 | |
| Barium | mg/kg | 50.00 | 46.40 | 93 | |
| Boron | mg/kg | 50.00 | 50.30 | 101 | |
| Cadmium | mg/kg | 50.00 | 51.20 | 102 | |
| Calcium | mg/kg | 500.00 | 497.9 | 100 | |
| Chromium | mg/kg | 50.00 | 51.50 | 103 | |
| Copper | mg/kg | 50.00 | 47.80 | 96 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

LABORATORY CONTROL SAMPLE: 927374975

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/kg | 500.00 | 501.8 | 100 | |
| Lead | mg/kg | 50.00 | 51.30 | 103 | |
| Magnesium | mg/kg | 500.00 | 496.6 | 99 | |
| Manganese | mg/kg | 50.00 | 50.40 | 101 | |
| Molybdenum | mg/kg | 50.00 | 51.00 | 102 | |
| Nickel | mg/kg | 50.00 | 50.50 | 101 | |
| Potassium | mg/kg | 500.00 | 472.8 | 95 | |
| Selenium | mg/kg | 50.00 | 49.70 | 99 | |
| Silver | mg/kg | 25.00 | 24.50 | 98 | |
| Sodium | mg/kg | 500.00 | 497.2 | 99 | |
| Zinc | mg/kg | 50.00 | 49.90 | 100 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927374991 927375006

| Parameter | Units | 927368258 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 40.99 | 67.05 | 103.5 | 104.2 | 93 | 93 | 1 | |
| Barium | mg/kg | 300.4 | 67.05 | 340.5 | 340.6 | 60 | 59 | 0 | 1,1 |
| Boron | mg/kg | 149.9 | 67.05 | 205.3 | 205.9 | 83 | 82 | 0 | |
| Cadmium | mg/kg | 3.856 | 67.05 | 56.85 | 57.99 | 79 | 79 | 2 | |
| Calcium | mg/kg | 124400 | 670.50 | 117700 | 114700 | 0 | 0 | 3 | 2,1 |
| Chromium | mg/kg | 68.86 | 67.05 | 122.4 | 122.5 | 80 | 79 | 0 | |
| Copper | mg/kg | 66.43 | 67.05 | 125.4 | 124.4 | 88 | 85 | 1 | |
| Iron | mg/kg | 25050 | 670.50 | 23470 | 23420 | 0 | 0 | 0 | 1,1 |
| Lead | mg/kg | 18.47 | 67.05 | 69.06 | 69.31 | 76 | 74 | 0 | |
| Magnesium | mg/kg | 6667 | 670.50 | 7199 | 7105 | 79 | 64 | 1 | 1 |
| Manganese | mg/kg | 1549 | 67.05 | 1573 | 1546 | 36 | 0 | 2 | 1,1 |
| Molybdenum | mg/kg | 8.053 | 67.05 | 64.23 | 64.81 | 84 | 83 | 1 | |
| Nickel | mg/kg | 48.45 | 67.05 | 97.89 | 97.15 | 74 | 71 | 1 | 1,1 |
| Potassium | mg/kg | 8390 | 670.50 | 9906 | 9767 | 226 | 202 | 1 | 1,1 |
| Selenium | mg/kg | 83.77 | 67.05 | 153.3 | 153.6 | 104 | 102 | 0 | |
| Silver | mg/kg | 0.2414 | 33.52 | 30.57 | 30.97 | 90 | 90 | 1 | |
| Sodium | mg/kg | 747.4 | 670.50 | 1696 | 1692 | 142 | 138 | 0 | 1,1 |
| Zinc | mg/kg | 144.0 | 67.05 | 205.2 | 203.0 | 91 | 86 | 1 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

SAMPLE DUPLICATE: 927374983

| Parameter | Units | 927368258 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 41.00 | 41.00 | 0 | |
| Barium | mg/kg | 300.0 | 310.0 | 2 | |
| Boron | mg/kg | 150.0 | 140.0 | 4 | |
| Cadmium | mg/kg | 3.900 | 3.900 | 2 | |
| Calcium | mg/kg | 120000 | 120000 | 2 | |
| Chromium | mg/kg | 69.00 | 68.00 | 1 | |
| Copper | mg/kg | 66.00 | 67.00 | 1 | |
| Iron | mg/kg | 25000 | 24000 | 4 | |
| Lead | mg/kg | 18.00 | 19.00 | 0 | |
| Magnesium | mg/kg | 6700 | 6600 | 1 | |
| Manganese | mg/kg | 1500 | 1500 | 1 | |
| Molybdenum | mg/kg | 8.100 | 8.800 | 9 | |
| Nickel | mg/kg | 48.00 | 48.00 | 2 | |
| Potassium | mg/kg | 8400 | 8500 | 2 | |
| Selenium | mg/kg | 84.00 | 85.00 | 1 | |
| Silver | mg/kg | ND | ND | NC | |
| Sodium | mg/kg | 750.0 | 750.0 | 1 | |
| Zinc | mg/kg | 140.0 | 140.0 | 1 | |



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Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

---

QC Batch: 166598 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Trace ICP Metals, TCLP Leach.
Associated Lab Samples: 927368258

---

METHOD BLANK: 927382846
Associated Lab Samples: 927368258

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/l | ND | 0.025 | |
| Barium | mg/l | ND | 0.025 | |
| Boron | mg/l | ND | 0.050 | |
| Cadmium | mg/l | ND | 0.0050 | |
| Calcium | mg/l | ND | 0.50 | |
| Chromium | mg/l | ND | 0.025 | |
| Copper | mg/l | ND | 0.025 | |
| Iron | mg/l | ND | 0.25 | |
| Lead | mg/l | ND | 0.025 | |
| Magnesium | mg/l | ND | 0.50 | |
| Manganese | mg/l | ND | 0.025 | |
| Molybdenum | mg/l | ND | 0.025 | |
| Nickel | mg/l | ND | 0.025 | |
| Potassium | mg/l | ND | 5.0 | |
| Selenium | mg/l | ND | 0.050 | |
| Silver | mg/l | ND | 0.025 | |
| Zinc | mg/l | ND | 0.050 | |

---

LABORATORY CONTROL SAMPLE: 927382853

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | 2.500 | 2.370 | 95 | |
| Barium | mg/l | 2.500 | 2.225 | 89 | |
| Boron | mg/l | 2.500 | 2.430 | 97 | |
| Cadmium | mg/l | 2.500 | 2.405 | 96 | |
| Calcium | mg/l | 25.00 | 23.48 | 94 | |
| Chromium | mg/l | 2.500 | 2.385 | 95 | |
| Copper | mg/l | 2.500 | 2.355 | 94 | |
| Iron | mg/l | 25.00 | 23.20 | 93 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

LABORATORY CONTROL SAMPLE: 927382853

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Lead | mg/l | 2.500 | 2.395 | 96 | |
| Magnesium | mg/l | 25.00 | 23.73 | 95 | |
| Manganese | mg/l | 2.500 | 2.405 | 96 | |
| Molybdenum | mg/l | 2.500 | 2.420 | 97 | |
| Nickel | mg/l | 2.500 | 2.375 | 95 | |
| Potassium | mg/l | 25.00 | 22.40 | 90 | |
| Selenium | mg/l | 2.500 | 2.355 | 94 | |
| Silver | mg/l | 1.250 | 1.185 | 95 | |
| Zinc | mg/l | 2.500 | 2.345 | 94 | |

MATRIX SPIKE: 927382879

| Parameter | Units | 927368258 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0 | 2.500 | 2.445 | 98 | |
| Barium | mg/l | 0.07350 | 2.500 | 2.005 | 77 | |
| Boron | mg/l | 3.445 | 2.500 | 5.790 | 94 | |
| Cadmium | mg/l | 0.00466 | 2.500 | 2.165 | 86 | |
| Calcium | mg/l | 903.3 | 25.00 | 909.1 | 23 | 1 |
| Chromium | mg/l | 0.00975 | 2.500 | 2.175 | 87 | |
| Copper | mg/l | 0.09100 | 2.500 | 2.325 | 89 | |
| Iron | mg/l | 0 | 25.00 | 21.04 | 84 | |
| Lead | mg/l | 0 | 2.500 | 2.055 | 82 | |
| Magnesium | mg/l | 34.56 | 25.00 | 55.42 | 83 | |
| Manganese | mg/l | 0.3785 | 2.500 | 2.515 | 86 | |
| Molybdenum | mg/l | 0.01095 | 2.500 | 2.265 | 90 | |
| Nickel | mg/l | 0.08850 | 2.500 | 2.160 | 83 | |
| Potassium | mg/l | 4.165 | 25.00 | 48.87 | 179 | 1 |
| Selenium | mg/l | 0.1335 | 2.500 | 2.610 | 99 | |
| Silver | mg/l | 0.00153 | 1.250 | 1.145 | 92 | |
| Zinc | mg/l | 1.130 | 2.500 | 3.395 | 91 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

SAMPLE DUPLICATE: 927382861

| Parameter | Units | 927368258 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | ND | ND | NC | |
| Barium | mg/l | 0.07400 | 0.07200 | 1 | |
| Boron | mg/l | 3.400 | 3.400 | 1 | |
| Cadmium | mg/l | ND | ND | NC | |
| Calcium | mg/l | 900.0 | 900.0 | 1 | |
| Chromium | mg/l | ND | ND | NC | |
| Copper | mg/l | 0.09100 | 0.08600 | 5 | |
| Iron | mg/l | ND | ND | NC | |
| Lead | mg/l | ND | ND | NC | |
| Magnesium | mg/l | 35.00 | 34.00 | 1 | |
| Manganese | mg/l | 0.3800 | 0.3700 | 1 | |
| Molybdenum | mg/l | ND | ND | NC | |
| Nickel | mg/l | 0.08800 | 0.08500 | 4 | |
| Potassium | mg/l | ND | ND | NC | |
| Selenium | mg/l | 0.1300 | 0.1200 | 7 | |
| Silver | mg/l | ND | ND | NC | |
| Zinc | mg/l | 1.100 | 1.100 | 1 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

---

QC Batch: 166313 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927368258

---

SAMPLE DUPLICATE: 927370049

| Parameter | Units | 927369256 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Percent Moisture | % | 21.70 | 23.50 | 8 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

QC Batch: 166724 Analysis Method: EPA 375.4 Modified
QC Batch Method: EPA 375.4 Modified Analysis Description: Sulfate, Total, Soil
Associated Lab Samples: 927368258

METHOD BLANK: 927388819
Associated Lab Samples: 927368258

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Sulfate | mg/kg | ND | 500 | |

LABORATORY CONTROL SAMPLE: 927388827

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000.00 | 2029 | 101 | |

MATRIX SPIKE: 927388843

| Parameter | Units | 927368258 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 102700 | 1496.00 | 93240 | 0 | 1 |

SAMPLE DUPLICATE: 927388835

| Parameter | Units | 927368258 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 100000 | 100000 | 2 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

---

QC Batch: 167008 Analysis Method: EPA 365.2
QC Batch Method: EPA 365.2 Analysis Description: Phosphorus, Total, Soil
Associated Lab Samples: 927368258

---

METHOD BLANK: 927400796
Associated Lab Samples: 927368258

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 10.0 | |

---

LABORATORY CONTROL SAMPLE: 927400804

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20.00 | 20.47 | 102 | |

---

MATRIX SPIKE: 927400820

| Parameter | Units | 927368258 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 8.805 | 30.50 | 9.418 | 2 | 1 |

---

SAMPLE DUPLICATE: 927400812

| Parameter | Units | 927368258 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | ND | NC | |



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Lab Project Number: 92126391
Client Project ID: WWT Filter Cake 8/28/06

## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|---|---|
| LCS(D) | Laboratory Control Sample (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| DUP | Sample Duplicate |
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| RPD | Relative Percent Difference |
| [1] | The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| [2] | The spike recovery was outside acceptance limits for the MS and/or MSD due to an analyte concentration in the sample at four times greater than the spike concentration. The QC batch was accepted based upon LCS and/or LCSD recoveries within acceptance limits. |



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January 24, 2007

Ms. Diane Elledge
Progress Energy
200 CP&L Drive
CT Site
Arden, NC 28704

RE: Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

Dear Ms. Elledge:

Enclosed are the analytical results for sample(s) received by the laboratory on January 9, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
(828) 254-7176
Project Manager

Enclosures

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Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

Solid results are reported on a dry weight basis

Lab Sample No: 927882506 Project Sample Number: 92135794-001 Date Collected: 01/09/07 12:42
Client Sample ID: WWT FILTER CAKE FROM PRESS B Matrix: Soil Date Received: 01/09/07 17:50

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | | |
| Trace ICP Metals, TCLP Leach. | Method: EPA 6010 | | | | | | | |
| Date Digested | 01/11/07 14:15 | | | 01/11/07 14:15 | | | | |
| Trace ICP Metals, TCLP Leach. | Prep/Method: EPA 3010 / EPA 6010 | | | | | | | |
| Arsenic | ND | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7440-38-2 | | |
| Barium | 0.096 | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7440-39-3 | | |
| Boron | 4.1 | mg/l | 0.050 | 01/14/07 21:27 | JDA1 | 7440-42-8 | | |
| Cadmium | ND | mg/l | 0.0050 | 01/14/07 21:27 | JDA1 | 7440-43-9 | | |
| Calcium | 1100 | mg/l | 0.50 | 01/14/07 21:27 | JDA1 | 7440-70-2 | | |
| Chromium | 0.032 | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7440-47-3 | | |
| Copper | 0.12 | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7440-50-8 | | |
| Iron | ND | mg/l | 0.25 | 01/14/07 21:27 | JDA1 | 7439-89-6 | | |
| Lead | 0.14 | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7439-92-1 | | |
| Magnesium | 31. | mg/l | 0.50 | 01/14/07 21:27 | JDA1 | 7439-95-4 | | |
| Manganese | 0.17 | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7439-96-5 | | |
| Molybdenum | ND | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7439-98-7 | | |
| Nickel | 0.13 | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7440-02-0 | | |
| Potassium | 7.8 | mg/l | 5.0 | 01/14/07 21:27 | JDA1 | 7440-09-7 | | |
| Selenium | 0.18 | mg/l | 0.050 | 01/14/07 21:27 | JDA1 | 7782-49-2 | | |
| Silver | ND | mg/l | 0.025 | 01/14/07 21:27 | JDA1 | 7440-22-4 | | |
| Sodium | 390 | mg/l | 5.0 | 01/14/07 21:27 | JDA1 | 7440-23-5 | 1 | |
| Zinc | 1.7 | mg/l | 0.050 | 01/14/07 21:27 | JDA1 | 7440-66-6 | | |
| Date Digested | 01/12/07 09:20 | | | 01/12/07 09:20 | | | | |
| Metals, Trace ICP | Prep/Method: EPA 3050 / EPA 6010 | | | | | | | |
| Arsenic | 28. | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7440-38-2 | | |
| Barium | 150 | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7440-39-3 | | |
| Boron | 81. | mg/kg | 1.2 | 01/11/07 16:40 | SHB | 7440-42-8 | | |
| Cadmium | 0.86 | mg/kg | 0.12 | 01/11/07 16:40 | SHB | 7440-43-9 | | |
| Calcium | 100000 | mg/kg | 12. | 01/11/07 16:40 | SHB | 7440-70-2 | | |
| Chromium | 45. | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7440-47-3 | | |
| Copper | 39. | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7440-50-8 | | |
| Iron | 14000 | mg/kg | 5.8 | 01/11/07 16:40 | SHB | 7439-89-6 | | |
| Lead | 24. | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7439-92-1 | | |
| Magnesium | 3800 | mg/kg | 12. | 01/11/07 16:40 | SHB | 7439-95-4 | | |
| Manganese | 950 | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7439-96-5 | | |
| Molybdenum | 7.2 | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7439-98-7 | | |



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Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

Lab Sample No: 927882506 Project Sample Number: 92135794-001 Date Collected: 01/09/07 12:42
Client Sample ID: WWT FILTER CAKE FROM PRESS B Matrix: Soil Date Received: 01/09/07 17:50

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| Nickel | 34. | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7440-02-0 | | |
| Potassium | 8300 | mg/kg | 120 | 01/11/07 16:40 | SHB | 7440-09-7 | | |
| Selenium | 13. | mg/kg | 1.2 | 01/11/07 16:40 | SHB | 7782-49-2 | | |
| Silver | ND | mg/kg | 0.58 | 01/11/07 16:40 | SHB | 7440-22-4 | | |
| Sodium | 630 | mg/kg | 120 | 01/11/07 16:40 | SHB | 7440-23-5 | | |
| Zinc | 100 | mg/kg | 1.2 | 01/11/07 16:40 | SHB | 7440-66-6 | | |
| Date Digested | 01/11/07 10:00 | | | 01/11/07 10:00 | | | | |
| Mercury, CVAAS, TCLP Leachate | Method: EPA 7470 | | | | | | | |
| Mercury | 0.086 | mg/l | 0.0040 | 01/17/07 08:46 | ALV | 7439-97-6 | | |
| Mercury, CVAAS, in Soil | Method: EPA 7471 | | | | | | | |
| Mercury | 46. | mg/kg | 2.0 | 01/17/07 12:38 | ALV | 7439-97-6 | | |
| **Wet Chemistry** | | | | | | | | |
| Percent Moisture | Method: % Moisture | | | | | | | |
| Percent Moisture | 16.1 | % | | 01/16/07 10:30 | TNM | | | |
| Phosphorus, Total, Soil | Method: EPA 365.2 | | | | | | | |
| Phosphorus | 83.1 | mg/kg | 59.6 | 01/20/07 10:23 | SAJ | 7723-14-0 | | |
| Sulfate, Total, Soil | Method: EPA 375.4 Modified | | | | | | | |
| Sulfate | 68000 | mg/kg | 29000 | 01/23/07 17:44 | SAJ | | | |



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Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

| | |
|---|---|
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| [1] | Element proesent in extraction fluid. reported result for informational purposes only. |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

---

QC Batch: 177896 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 927882506

---

METHOD BLANK: 927895540
Associated Lab Samples: 927882506

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/l | ND | 0.0002 | |

---

LABORATORY CONTROL SAMPLE: 927895557

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.0025 | 0.0025 | 101 | |

---

MATRIX SPIKE: 927895565

| Parameter | Units | 927883017 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Mercury | mg/l | 0 | 0.0050 | 0.0045 | 89 | |

---

SAMPLE DUPLICATE: 927895573

| Parameter | Units | 927889352 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | ND | ND | NC | |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

---

QC Batch: 177899 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: Mercury, CVAAS, in Soil
Associated Lab Samples: 927882506

---

METHOD BLANK: 927895656
Associated Lab Samples: 927882506

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

---

LABORATORY CONTROL SAMPLE: 927895664

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.0667 | 0.0603 | 90 | |

---

MATRIX SPIKE: 927895672

| Parameter | Units | 927883017 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.1709 | 0.0978 | 0.4675 | 303 | 1,2 |

---

SAMPLE DUPLICATE: 927895680

| Parameter | Units | 927891614 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.1300 | 0.3400 | 89 | 2 |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

---

QC Batch: 177637 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: Metals, Trace ICP
Associated Lab Samples: 927882506

---

METHOD BLANK: 927882530
Associated Lab Samples: 927882506

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10. | |
| Chromium | mg/kg | ND | 0.50 | |
| Copper | mg/kg | ND | 0.50 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10. | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 100 | |
| Selenium | mg/kg | ND | 1.0 | |
| Silver | mg/kg | ND | 0.50 | |
| Sodium | mg/kg | ND | 100 | |
| Zinc | mg/kg | ND | 1.0 | |

---

LABORATORY CONTROL SAMPLE: 927882548

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 50.00 | 51.90 | 104 | |
| Barium | mg/kg | 50.00 | 50.60 | 101 | |
| Boron | mg/kg | 50.00 | 50.50 | 101 | |
| Cadmium | mg/kg | 50.00 | 51.50 | 103 | |
| Calcium | mg/kg | 500.00 | 520.8 | 104 | |
| Chromium | mg/kg | 50.00 | 53.00 | 106 | |
| Copper | mg/kg | 50.00 | 51.20 | 102 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

LABORATORY CONTROL SAMPLE: 927882548

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/kg | 500.00 | 531.9 | 106 | |
| Lead | mg/kg | 50.00 | 51.90 | 104 | |
| Magnesium | mg/kg | 500.00 | 520.2 | 104 | |
| Manganese | mg/kg | 50.00 | 52.20 | 104 | |
| Molybdenum | mg/kg | 50.00 | 52.30 | 105 | |
| Nickel | mg/kg | 50.00 | 51.40 | 103 | |
| Potassium | mg/kg | 500.00 | 478.3 | 96 | |
| Selenium | mg/kg | 50.00 | 52.80 | 106 | |
| Silver | mg/kg | 25.00 | 23.20 | 93 | |
| Sodium | mg/kg | 500.00 | 532.1 | 106 | |
| Zinc | mg/kg | 50.00 | 50.60 | 101 | |

MATRIX SPIKE: 927882555

| Parameter | Units | 927881136 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 3.824 | 61.54 | 65.36 | 100 | |
| Barium | mg/kg | 90.85 | 61.54 | 171.0 | 130 | 1 |
| Boron | mg/kg | 0 | 61.54 | 53.17 | 86 | |
| Cadmium | mg/kg | 5.125 | 61.54 | 61.42 | 92 | |
| Calcium | mg/kg | 1623 | 615.40 | 2101 | 78 | |
| Chromium | mg/kg | 22.26 | 61.54 | 81.11 | 96 | |
| Copper | mg/kg | 14.38 | 61.54 | 76.44 | 101 | |
| Iron | mg/kg | 18010 | 615.40 | 12020 | 0 | 1 |
| Lead | mg/kg | 15.75 | 61.54 | 75.95 | 98 | |
| Magnesium | mg/kg | 2257 | 615.40 | 2277 | 3 | 1 |
| Manganese | mg/kg | 192.3 | 61.54 | 222.5 | 49 | 1 |
| Molybdenum | mg/kg | 1.071 | 61.54 | 60.07 | 96 | |
| Nickel | mg/kg | 12.78 | 61.54 | 68.93 | 91 | |
| Potassium | mg/kg | 2597 | 615.40 | 3024 | 69 | 1 |
| Selenium | mg/kg | 1.461 | 61.54 | 66.84 | 106 | |
| Silver | mg/kg | 0 | 30.77 | 27.45 | 89 | |
| Sodium | mg/kg | 84.46 | 615.40 | 1028 | 153 | 1 |
| Zinc | mg/kg | 77.16 | 61.54 | 115.7 | 63 | 1 |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

SAMPLE DUPLICATE: 927882563

| Parameter | Units | 927881144 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 4.300 | 5.000 | 15 | |
| Barium | mg/kg | 76.00 | 97.00 | 25 | 2 |
| Boron | mg/kg | ND | ND | NC | |
| Cadmium | mg/kg | 43.00 | 55.00 | 25 | 2 |
| Calcium | mg/kg | 4000 | 3300 | 20 | |
| Chromium | mg/kg | 62.00 | 110.0 | 53 | 2 |
| Copper | mg/kg | 37.00 | 58.00 | 45 | 2 |
| Iron | mg/kg | 26000 | 23000 | 14 | |
| Lead | mg/kg | 22.00 | 28.00 | 21 | 2 |
| Magnesium | mg/kg | 2400 | 2900 | 17 | |
| Manganese | mg/kg | 560.0 | 630.0 | 13 | |
| Molybdenum | mg/kg | 2.100 | 3.600 | 51 | 2 |
| Nickel | mg/kg | 17.00 | 34.00 | 67 | 2 |
| Potassium | mg/kg | 2300 | 3200 | 35 | 2 |
| Selenium | mg/kg | ND | ND | NC | |
| Silver | mg/kg | 1.200 | ND | NC | 2 |
| Sodium | mg/kg | ND | ND | NC | |
| Zinc | mg/kg | 250.0 | 320.0 | 24 | 2 |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

QC Batch: 177756 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Trace ICP Metals, TCLP Leach.
Associated Lab Samples: 927882506

METHOD BLANK: 927887224
Associated Lab Samples: 927882506

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/l | ND | 0.025 | |
| Barium | mg/l | ND | 0.025 | |
| Boron | mg/l | ND | 0.050 | |
| Cadmium | mg/l | ND | 0.0050 | |
| Calcium | mg/l | ND | 0.50 | |
| Chromium | mg/l | ND | 0.025 | |
| Copper | mg/l | ND | 0.025 | |
| Iron | mg/l | ND | 0.25 | |
| Lead | mg/l | ND | 0.025 | |
| Magnesium | mg/l | ND | 0.50 | |
| Manganese | mg/l | ND | 0.025 | |
| Molybdenum | mg/l | ND | 0.025 | |
| Nickel | mg/l | ND | 0.025 | |
| Potassium | mg/l | ND | 5.0 | |
| Selenium | mg/l | ND | 0.050 | |
| Silver | mg/l | ND | 0.025 | |
| Sodium | mg/l | 390 | 5.0 | 3 |
| Zinc | mg/l | ND | 0.050 | |

LABORATORY CONTROL SAMPLE: 927887232

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | 2.500 | 2.615 | 105 | |
| Barium | mg/l | 2.500 | 2.105 | 84 | |
| Boron | mg/l | 2.500 | 2.490 | 100 | |
| Cadmium | mg/l | 2.500 | 2.375 | 95 | |
| Calcium | mg/l | 25.00 | 23.00 | 92 | |
| Chromium | mg/l | 2.500 | 2.400 | 96 | |
| Copper | mg/l | 2.500 | 2.335 | 93 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

LABORATORY CONTROL SAMPLE: 927887232

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/l | 25.00 | 23.53 | 94 | |
| Lead | mg/l | 2.500 | 2.275 | 91 | |
| Magnesium | mg/l | 25.00 | 22.26 | 89 | |
| Manganese | mg/l | 2.500 | 2.320 | 93 | |
| Molybdenum | mg/l | 2.500 | 2.375 | 95 | |
| Nickel | mg/l | 2.500 | 2.295 | 92 | |
| Potassium | mg/l | 25.00 | 46.46 | 186 | |
| Selenium | mg/l | 2.500 | 2.640 | 106 | |
| Silver | mg/l | 1.250 | 1.090 | 87 | |
| Sodium | mg/l | 25.00 | 379.2 | 1520 | 4 |
| Zinc | mg/l | 2.500 | 2.500 | 100 | |

MATRIX SPIKE: 927887240

| Parameter | Units | 927830109 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0.03445 | 2.500 | 2.590 | 102 | |
| Barium | mg/l | 0.2585 | 2.500 | 2.290 | 81 | |
| Boron | mg/l | 1.465 | 2.500 | 3.405 | 78 | |
| Cadmium | mg/l | 0.01730 | 2.500 | 2.285 | 91 | |
| Calcium | mg/l | 125.1 | 25.00 | 154.4 | 117 | |
| Chromium | mg/l | 0.01045 | 2.500 | 2.285 | 91 | |
| Copper | mg/l | 0.04125 | 2.500 | 2.320 | 91 | |
| Iron | mg/l | 0.1815 | 25.00 | 22.62 | 90 | |
| Lead | mg/l | 0.3660 | 2.500 | 2.585 | 89 | |
| Magnesium | mg/l | 1.935 | 25.00 | 23.60 | 87 | |
| Manganese | mg/l | 0.2425 | 2.500 | 2.485 | 90 | |
| Molybdenum | mg/l | 0.01325 | 2.500 | 2.300 | 92 | |
| Nickel | mg/l | 0.01905 | 2.500 | 2.205 | 87 | |
| Potassium | mg/l | 9.925 | 25.00 | 56.45 | 186 | |
| Selenium | mg/l | 0.02270 | 2.500 | 2.560 | 102 | |
| Silver | mg/l | 0.00118 | 1.250 | 1.060 | 85 | |
| Sodium | mg/l | 393.0 | 25.00 | 378.7 | 0 | 1 |
| Zinc | mg/l | 159.4 | 2.500 | 166.6 | 288 | 1 |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

SAMPLE DUPLICATE: 927887257

| Parameter | Units | 927878009 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | ND | ND | NC | |
| Barium | mg/l | 0.8400 | 0.8000 | 4 | |
| Boron | mg/l | 2.500 | 2.500 | 1 | |
| Cadmium | mg/l | 0.02900 | 0.02800 | 4 | |
| Calcium | mg/l | 390.0 | 370.0 | 4 | |
| Chromium | mg/l | ND | ND | NC | |
| Copper | mg/l | 2.800 | 2.600 | 5 | |
| Iron | mg/l | ND | ND | NC | |
| Lead | mg/l | 0.06600 | 0.06200 | 6 | |
| Magnesium | mg/l | 24.00 | 23.00 | 2 | |
| Manganese | mg/l | 1.800 | 1.700 | 4 | |
| Molybdenum | mg/l | 0.02700 | 0.03300 | 19 | |
| Nickel | mg/l | 0.9600 | 0.9300 | 4 | |
| Potassium | mg/l | 120.0 | 110.0 | 6 | |
| Selenium | mg/l | ND | ND | NC | |
| Silver | mg/l | ND | ND | NC | |
| Sodium | mg/l | 350.0 | 360.0 | 2 | |
| Zinc | mg/l | 14.00 | 13.00 | 4 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

---

QC Batch: 177938 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927882506

---

SAMPLE DUPLICATE: 927896902

| Parameter | Units | 927892869 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Percent Moisture | % | 26.70 | 26.20 | 2 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

---

QC Batch: 178120 Analysis Method: EPA 365.2
QC Batch Method: EPA 365.2 Analysis Description: Phosphorus, Total, Soil
Associated Lab Samples: 927882506

---

METHOD BLANK: 927903823
Associated Lab Samples: 927882506

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 10.0 | |

---

LABORATORY CONTROL SAMPLE: 927903831

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20.00 | 18.02 | 90 | |

---

MATRIX SPIKE: 927903880

| Parameter | Units | 927882498 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 79.00 | 30.62 | 260.6 | 593 | 1 |

---

SAMPLE DUPLICATE: 927903898

| Parameter | Units | 927882506 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 83.10 | 101.0 | 20 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

---

QC Batch: 178590 Analysis Method: EPA 375.4 Modified
QC Batch Method: EPA 375.4 Modified Analysis Description: Sulfate, Total, Soil
Associated Lab Samples: 927882506

---

METHOD BLANK: 927922518
Associated Lab Samples: 927882506

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Sulfate | mg/kg | ND | 500 | |

---

LABORATORY CONTROL SAMPLE: 927922526

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000.00 | 1878 | 94 | |

---

MATRIX SPIKE: 927922534

| Parameter | Units | 927882506 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 68430 | 2249.00 | 83740 | 681 | 1 |

---

SAMPLE DUPLICATE: 927922542

| Parameter | Units | 927898098 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | ND | ND | NC | |



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Lab Project Number: 92135794
Client Project ID: WWT Filter Cake

## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|---|---|
| LCS(D) | Laboratory Control Sample (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| DUP | Sample Duplicate |
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| RPD | Relative Percent Difference |
| [1] | The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| [2] | The calculated RPD was outside QC acceptance limits. |
| [3] | Element prosent in extration fluid. reported value is fo informational purposes only. |
| [4] | Analyte present in extraction fliud. reported result is for informational purposes only. |



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May 11, 2007

Ms. Diane Elledge
Progress Energy
200 CP&L Drive
CT Site
Arden, NC 28704

RE: Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

Dear Ms. Elledge:

Enclosed are the analytical results for sample(s) received by the laboratory on May 1, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
(828) 254-7176
Project Manager

Enclosures

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Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

Solid results are reported on a dry weight basis

Lab Sample No: 928324680 Project Sample Number: 92143549-001 Date Collected: 05/01/07 11:44
Client Sample ID: WWT FILTER CAKE Matrix: Soil Date Received: 05/01/07 17:00

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | | |
| Metals, Trace ICP | Prep/Method: EPA 3050 / EPA 6010 | | | | | | | |
| Arsenic | ND | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7440-38-2 | | |
| Barium | 60. | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7440-39-3 | | |
| Boron | 2.8 | mg/kg | 1.2 | 05/05/07 14:00 | JDA1 | 7440-42-8 | | |
| Cadmium | ND | mg/kg | 0.12 | 05/05/07 14:00 | JDA1 | 7440-43-9 | | |
| Calcium | 8800 | mg/kg | 12. | 05/05/07 14:00 | JDA1 | 7440-70-2 | | |
| Chromium | ND | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7440-47-3 | | |
| Copper | ND | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7440-50-8 | | |
| Iron | 25. | mg/kg | 5.9 | 05/05/07 14:00 | JDA1 | 7439-89-6 | | |
| Lead | ND | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7439-92-1 | | |
| Magnesium | 1600 | mg/kg | 12. | 05/05/07 14:00 | JDA1 | 7439-95-4 | | |
| Manganese | 26. | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7439-96-5 | | |
| Molybdenum | ND | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7439-98-7 | | |
| Nickel | ND | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7440-02-0 | | |
| Potassium | 720 | mg/kg | 120 | 05/05/07 14:00 | JDA1 | 7440-09-7 | | |
| Selenium | ND | mg/kg | 1.2 | 05/05/07 14:00 | JDA1 | 7782-49-2 | | |
| Silver | ND | mg/kg | 0.59 | 05/05/07 14:00 | JDA1 | 7440-22-4 | | |
| Sodium | 2400 | mg/kg | 120 | 05/05/07 14:00 | JDA1 | 7440-23-5 | | |
| Zinc | 4.5 | mg/kg | 1.2 | 05/05/07 14:00 | JDA1 | 7440-66-6 | | |
| Date Digested | 05/03/07 11:30 | | | 05/03/07 11:30 | | | | |
| Mercury, CVAAS, in Soil | Method: EPA 7471 | | | | | | | |
| Mercury | 16. | mg/kg | 2.6 | 05/04/07 15:52 | ALV | 7439-97-6 | | |
| **Wet Chemistry** | | | | | | | | |
| Percent Moisture | Method: % Moisture | | | | | | | |
| Percent Moisture | 32.6 | % | | 05/04/07 12:09 | TNM | | | |
| Phosphorus, Total, Soil | Method: EPA 365.2 | | | | | | | |
| Phosphorus | 373. | mg/kg | 2.97 | 05/08/07 08:20 | JDA1 | 7723-14-0 | | |
| Sulfate, Total, Soil | Method: EPA 375.4 Modified | | | | | | | |
| Sulfate | 47000 | mg/kg | 6900 | 05/10/07 17:11 | SHB | | | |

Date: 05/11/07



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Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

Lab Sample No: 928324698 Project Sample Number: 92143549-002 Date Collected: 05/01/07 11:44
Client Sample ID: WWT FILTER CAKE TCLP Matrix: Soil Date Received: 05/01/07 17:00

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | | |
| Trace ICP Metals, TCLP Leach. | Method: EPA 6010 | | | | | | | |
| Date Digested | 05/04/07 15:45 | | | 05/04/07 15:45 | | | | |
| Trace ICP Metals, TCLP Leach. | Prep/Method: EPA 3010 / EPA 6010 | | | | | | | |
| Arsenic | ND | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7440-38-2 | | |
| Barium | 0.10 | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7440-39-3 | | |
| Boron | 3.1 | mg/l | 0.050 | 05/06/07 16:05 | EWS | 7440-42-8 | | |
| Cadmium | ND | mg/l | 0.0050 | 05/06/07 16:05 | EWS | 7440-43-9 | | |
| Calcium | 990 | mg/l | 0.50 | 05/06/07 16:05 | EWS | 7440-70-2 | | |
| Chromium | 0.041 | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7440-47-3 | | |
| Copper | 0.052 | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7440-50-8 | | |
| Iron | 0.37 | mg/l | 0.25 | 05/06/07 16:05 | EWS | 7439-89-6 | | |
| Lead | ND | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7439-92-1 | | |
| Magnesium | 45. | mg/l | 0.50 | 05/06/07 16:05 | EWS | 7439-95-4 | | |
| Manganese | 0.18 | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7439-96-5 | | |
| Molybdenum | 0.039 | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7439-98-7 | | |
| Nickel | 0.081 | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7440-02-0 | | |
| Potassium | 7.6 | mg/l | 5.0 | 05/06/07 16:05 | EWS | 7440-09-7 | | |
| Selenium | 0.15 | mg/l | 0.050 | 05/06/07 16:05 | EWS | 7782-49-2 | | |
| Silver | ND | mg/l | 0.025 | 05/06/07 16:05 | EWS | 7440-22-4 | | |
| Sodium | 510 | mg/l | 5.0 | 05/06/07 16:05 | EWS | 7440-23-5 | 1 | |
| Zinc | 0.74 | mg/l | 0.050 | 05/06/07 16:05 | EWS | 7440-66-6 | | |
| Date Digested | 05/06/07 09:30 | | | 05/06/07 09:30 | | | | |
| Mercury, CVAAS, TCLP Leachate | Method: EPA 7470 | | | | | | | |
| Mercury | 0.26 | mg/l | 0.10 | 05/07/07 12:04 | ALV | 7439-97-6 | | |



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Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

| | |
|---|---|
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| [1] | Na present in extraction fluid. Reported for informational purposes only. |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

---

QC Batch: 187748 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: Mercury, CVAAS, in Soil
Associated Lab Samples: 928324680

---

METHOD BLANK: 928336098
Associated Lab Samples: 928324680

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

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LABORATORY CONTROL SAMPLE: 928336106

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.0667 | 0.0592 | 89 | |

---

MATRIX SPIKE: 928336114

| Parameter | Units | 928319524 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.00969 | 0.0659 | 0.0833 | 112 | |

---

SAMPLE DUPLICATE: 928336122

| Parameter | Units | 928319532 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.00620 | 0.00620 | 0 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

---

QC Batch: 187915 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 928324698

---

METHOD BLANK: 928345123
Associated Lab Samples: 928324698

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/l | ND | 0.0002 | |

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LABORATORY CONTROL SAMPLE: 928345131

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.0025 | 0.0027 | 107 | |

---

MATRIX SPIKE: 928345149

| Parameter | Units | 928317155 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Mercury | mg/l | 0.00001 | 0.0025 | 0.0031 | 123 | |

---

SAMPLE DUPLICATE: 928345156

| Parameter | Units | 928330240 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.00180 | 0.00180 | 1 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

---

QC Batch: 187661 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: Metals, Trace ICP
Associated Lab Samples: 928324680

---

METHOD BLANK: 928329267
Associated Lab Samples: 928324680

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10. | |
| Chromium | mg/kg | ND | 0.50 | |
| Copper | mg/kg | ND | 0.50 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10. | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 100 | |
| Selenium | mg/kg | ND | 1.0 | |
| Silver | mg/kg | ND | 0.50 | |
| Sodium | mg/kg | ND | 100 | |
| Zinc | mg/kg | ND | 1.0 | |

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LABORATORY CONTROL SAMPLE: 928329275

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 50.00 | 49.50 | 99 | |
| Barium | mg/kg | 50.00 | 49.30 | 99 | |
| Boron | mg/kg | 50.00 | 49.20 | 98 | |
| Cadmium | mg/kg | 50.00 | 49.40 | 99 | |
| Calcium | mg/kg | 500.00 | 494.4 | 99 | |
| Chromium | mg/kg | 50.00 | 49.80 | 100 | |
| Copper | mg/kg | 50.00 | 50.00 | 100 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

LABORATORY CONTROL SAMPLE: 928329275

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/kg | 500.00 | 488.5 | 98 | |
| Lead | mg/kg | 50.00 | 49.40 | 99 | |
| Magnesium | mg/kg | 500.00 | 490.3 | 98 | |
| Manganese | mg/kg | 50.00 | 49.40 | 99 | |
| Molybdenum | mg/kg | 50.00 | 48.90 | 98 | |
| Nickel | mg/kg | 50.00 | 49.20 | 98 | |
| Potassium | mg/kg | 500.00 | 462.8 | 93 | |
| Selenium | mg/kg | 50.00 | 49.60 | 99 | |
| Silver | mg/kg | 25.00 | 24.30 | 97 | |
| Sodium | mg/kg | 500.00 | 502.1 | 100 | |
| Zinc | mg/kg | 50.00 | 48.10 | 96 | |

MATRIX SPIKE: 928329283

| Parameter | Units | 928317692 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 0.4076 | 44.44 | 40.08 | 89 | |
| Barium | mg/kg | 212.9 | 44.44 | 243.3 | 68 | 1 |
| Boron | mg/kg | 0 | 44.44 | 28.53 | 64 | 1 |
| Cadmium | mg/kg | 1.179 | 44.44 | 38.30 | 84 | |
| Calcium | mg/kg | 141.4 | 444.40 | 518.7 | 85 | |
| Chromium | mg/kg | 5.467 | 44.44 | 43.28 | 85 | |
| Copper | mg/kg | 15.06 | 44.44 | 56.79 | 94 | |
| Iron | mg/kg | 33800 | 444.40 | 36380 | 583 | 1 |
| Lead | mg/kg | 12.58 | 44.44 | 47.28 | 78 | |
| Magnesium | mg/kg | 6034 | 444.40 | 5354 | 0 | 1 |
| Manganese | mg/kg | 726.5 | 44.44 | 651.8 | 0 | 1 |
| Molybdenum | mg/kg | 0.9924 | 44.44 | 36.08 | 79 | |
| Nickel | mg/kg | 7.133 | 44.44 | 43.19 | 81 | |
| Potassium | mg/kg | 5919 | 444.40 | 6541 | 140 | 1 |
| Selenium | mg/kg | 0 | 44.44 | 33.33 | 75 | |
| Silver | mg/kg | 0 | 22.22 | 20.00 | 90 | |
| Sodium | mg/kg | 69.38 | 444.40 | 664.7 | 134 | 1 |
| Zinc | mg/kg | 42.44 | 44.44 | 80.25 | 85 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

SAMPLE DUPLICATE: 928329291

| Parameter | Units | 928317700 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | ND | NC | |
| Barium | mg/kg | 230.0 | 230.0 | 1 | |
| Boron | mg/kg | ND | ND | NC | |
| Cadmium | mg/kg | 1.000 | 1.300 | 21 | 2 |
| Calcium | mg/kg | 240.0 | 290.0 | 20 | |
| Chromium | mg/kg | 5.100 | 5.600 | 8 | |
| Copper | mg/kg | 21.00 | 22.00 | 5 | |
| Iron | mg/kg | 39000 | 41000 | 3 | |
| Lead | mg/kg | 8.600 | 8.500 | 1 | |
| Magnesium | mg/kg | 5600 | 5900 | 5 | |
| Manganese | mg/kg | 450.0 | 470.0 | 3 | |
| Molybdenum | mg/kg | 0.7800 | 0.5900 | 28 | 2 |
| Nickel | mg/kg | 6.900 | 6.900 | 0 | |
| Potassium | mg/kg | 9800 | ND | NC | 2 |
| Selenium | mg/kg | ND | ND | NC | |
| Silver | mg/kg | ND | ND | NC | |
| Sodium | mg/kg | ND | ND | NC | |
| Zinc | mg/kg | 42.00 | 43.00 | 3 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

---

QC Batch: 187886 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Trace ICP Metals, TCLP Leach.
Associated Lab Samples: 928324698

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METHOD BLANK: 928344647
Associated Lab Samples: 928324698

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/l | ND | 0.025 | |
| Barium | mg/l | ND | 0.025 | |
| Boron | mg/l | ND | 0.050 | |
| Cadmium | mg/l | ND | 0.0050 | |
| Calcium | mg/l | ND | 0.50 | |
| Chromium | mg/l | ND | 0.025 | |
| Copper | mg/l | ND | 0.025 | |
| Iron | mg/l | ND | 0.25 | |
| Lead | mg/l | ND | 0.025 | |
| Magnesium | mg/l | ND | 0.50 | |
| Manganese | mg/l | ND | 0.025 | |
| Molybdenum | mg/l | ND | 0.025 | |
| Nickel | mg/l | ND | 0.025 | |
| Potassium | mg/l | ND | 5.0 | |
| Selenium | mg/l | ND | 0.050 | |
| Silver | mg/l | ND | 0.025 | |
| Sodium | mg/l | 510 | 5.0 | 3 |
| Zinc | mg/l | ND | 0.050 | |

---

LABORATORY CONTROL SAMPLE: 928344654

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | 2.500 | 2.720 | 109 | |
| Barium | mg/l | 2.500 | 2.110 | 84 | |
| Boron | mg/l | 2.500 | 2.340 | 94 | |
| Cadmium | mg/l | 2.500 | 2.495 | 100 | |
| Calcium | mg/l | 25.00 | 24.36 | 97 | |
| Chromium | mg/l | 2.500 | 2.520 | 101 | |
| Copper | mg/l | 2.500 | 2.365 | 95 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

LABORATORY CONTROL SAMPLE: 928344654

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/l | 25.00 | 24.81 | 99 | |
| Lead | mg/l | 2.500 | 2.350 | 94 | |
| Magnesium | mg/l | 25.00 | 21.74 | 87 | |
| Manganese | mg/l | 2.500 | 2.280 | 91 | |
| Molybdenum | mg/l | 2.500 | 2.420 | 97 | |
| Nickel | mg/l | 2.500 | 2.395 | 96 | |
| Potassium | mg/l | 25.00 | 24.72 | 99 | |
| Selenium | mg/l | 2.500 | 2.815 | 113 | |
| Silver | mg/l | 1.250 | 1.185 | 95 | |
| Sodium | mg/l | 25.00 | 520.8 | 2080 | 4 |
| Zinc | mg/l | 2.500 | 2.545 | 102 | |

MATRIX SPIKE: 928344662

| Parameter | Units | 928314327 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0 | 2.500 | 2.715 | 109 | |
| Barium | mg/l | 0.6500 | 2.500 | 2.680 | 81 | |
| Boron | mg/l | | 2.500 | 2.355 | | |
| Cadmium | mg/l | 0 | 2.500 | 2.360 | 94 | |
| Calcium | mg/l | | 25.00 | 910.8 | | 1 |
| Chromium | mg/l | 0.07350 | 2.500 | 2.475 | 96 | |
| Copper | mg/l | | 2.500 | 2.375 | | |
| Iron | mg/l | | 25.00 | 23.76 | | |
| Lead | mg/l | 0 | 2.500 | 2.245 | 90 | |
| Magnesium | mg/l | | 25.00 | 21.48 | | |
| Manganese | mg/l | | 2.500 | 2.195 | | |
| Molybdenum | mg/l | | 2.500 | 2.350 | | |
| Nickel | mg/l | | 2.500 | 2.270 | | |
| Potassium | mg/l | | 25.00 | 90.34 | | 1 |
| Selenium | mg/l | 0.01460 | 2.500 | 2.785 | 111 | |
| Silver | mg/l | 0.00422 | 1.250 | 1.185 | 94 | |
| Sodium | mg/l | | 25.00 | 508.6 | | 5 |
| Zinc | mg/l | | 2.500 | 2.550 | | |



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Phone: 704.875.9092
Fax: 704.875.9091

# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

SAMPLE DUPLICATE: 928344670

| Parameter | Units | 928320290 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | 0.02800 | 0.02700 | 1 | |
| Barium | mg/l | 0.3100 | 0.2900 | 6 | |
| Boron | mg/l | 0.2000 | 0.1900 | 4 | |
| Cadmium | mg/l | ND | ND | NC | |
| Calcium | mg/l | 310.0 | 300.0 | 4 | |
| Chromium | mg/l | ND | ND | NC | |
| Copper | mg/l | ND | ND | NC | |
| Iron | mg/l | 420.0 | 410.0 | 4 | |
| Lead | mg/l | ND | ND | NC | |
| Magnesium | mg/l | 8.700 | 8.200 | 5 | |
| Manganese | mg/l | 27.00 | 25.00 | 4 | |
| Molybdenum | mg/l | ND | ND | NC | |
| Nickel | mg/l | 0.2300 | 0.2200 | 5 | |
| Potassium | mg/l | ND | ND | NC | |
| Selenium | mg/l | ND | ND | NC | |
| Silver | mg/l | ND | ND | NC | |
| Sodium | mg/l | 510.0 | 510.0 | 0 | |
| Zinc | mg/l | 0.06600 | 0.05000 | 26 | 2 |



Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

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NC Drinking Water 37706
SC 99006
FL NELAP E87627

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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

QC Batch: 187802 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 928324680

SAMPLE DUPLICATE: 928337534

| Parameter | Units | 928337070 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Percent Moisture | % | 16.40 | 15.50 | 6 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

---

QC Batch: 187885 Analysis Method: EPA 365.2
QC Batch Method: SM 4500-P F Analysis Description: Phosphorus, Total, Soil
Associated Lab Samples: 928324680

---

METHOD BLANK: 928344605
Associated Lab Samples: 928324680

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.00 | |

---

LABORATORY CONTROL SAMPLE: 928344613

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20.00 | 18.14 | 91 | |

---

MATRIX SPIKE: 928344621

| Parameter | Units | 928292879 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 13300 | 561.80 | 12100 | 0 | 1 |

---

SAMPLE DUPLICATE: 928344639

| Parameter | Units | 928324680 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 373.0 | 873.0 | 80 | 2 |



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# QUALITY CONTROL DATA

Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

---

QC Batch: 188308 Analysis Method: EPA 375.4 Modified
QC Batch Method: EPA 375.4 Modified Analysis Description: Sulfate, Total, Soil
Associated Lab Samples: 928324680

---

METHOD BLANK: 928363852
Associated Lab Samples: 928324680

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Sulfate | mg/kg | ND | 500 | |

---

LABORATORY CONTROL SAMPLE: 928363860

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000.00 | 2002 | 100 | |

---

MATRIX SPIKE: 928363878

| Parameter | Units | 928348176 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 0 | 2284.00 | 0 | 0 | 1 |

---

SAMPLE DUPLICATE: 928363886

| Parameter | Units | 928324680 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 47000 | 43000 | 7 | |



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Lab Project Number: 92143549
Client Project ID: WWT Filter Cake

## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|---|---|
| LCS(D) | Laboratory Control Sample (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| DUP | Sample Duplicate |
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| RPD | Relative Percent Difference |
| [1] | The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| [2] | The calculated RPD was outside QC acceptance limits. |
| [3] | Na present in extraction fluid. Reported for informational purposes only. |
| [4] | Na present is extraction fluid. result reported for informational purposes only. |
| [5] | Na present in extraction fluid. Result reported for informational purposes only. |



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September 18, 2007

Diane Elledge
Progress Energy
200 CP&L Drive
CT Site
Arden, NC 28704

RE: Project: WWT Filter Cake
Pace Project No.: 922540

Dear Diane Elledge:
Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**



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# CERTIFICATIONS

Project: WWT Filter Cake
Pace Project No.: 922540

**Charlotte Certification IDs**
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706

**Asheville Certification IDs**
Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 990300001
South Carolina Bioassay Certification Number: 990300002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

**Eden Certification IDs**
North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633



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# ANALYTICAL RESULTS

Project: WWT Filter Cake
Pace Project No.: 922540

**Sample: WWT FILTER CAKE** **Lab ID: 922540001** Collected: 08/28/07 07:30 Received: 08/28/07 16:45 Matrix: Solid

Solid results reported on dry weight basis

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **11.8** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-38-2 | |
| Barium | **72.5** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-39-3 | |
| Boron | **54.9** | mg/kg | 1.0 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-42-8 | |
| Cadmium | ND | mg/kg | 0.10 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-43-9 | |
| Calcium | **173000** | mg/kg | 1030 | 100 | 08/31/07 13:30 | 09/17/07 14:07 | 7440-70-2 | |
| Chromium | **24.0** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-47-3 | |
| Copper | **18.6** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-50-8 | |
| Iron | **9330** | mg/kg | 5.2 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7439-89-6 | |
| Lead | **5.4** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7439-92-1 | |
| Magnesium | **2390** | mg/kg | 10.3 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7439-95-4 | |
| Manganese | **588** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7439-96-5 | |
| Molybdenum | **2.7** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7439-98-7 | |
| Nickel | **16.1** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-02-0 | |
| Potassium | **6440** | mg/kg | 516 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-09-7 | |
| Selenium | **20.0** | mg/kg | 1.0 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-22-4 | |
| Sodium | ND | mg/kg | 516 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-23-5 | |
| Zinc | **37.2** | mg/kg | 0.52 | 1 | 08/31/07 13:30 | 09/02/07 18:05 | 7440-66-6 | |
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| Arsenic | ND | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-38-2 | |
| Barium | **0.12** | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-39-3 | |
| Boron | **1.8** | mg/L | 0.050 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0050 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-43-9 | |
| Calcium | **911** | mg/L | 2.5 | 5 | 08/31/07 13:30 | 09/10/07 14:22 | 7440-70-2 | |
| Chromium | ND | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-47-3 | |
| Copper | **0.068** | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-50-8 | |
| Iron | ND | mg/L | 0.25 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7439-89-6 | |
| Lead | ND | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7439-92-1 | |
| Magnesium | **20.9** | mg/L | 0.50 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7439-95-4 | |
| Manganese | **0.27** | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7439-96-5 | |
| Molybdenum | ND | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7439-98-7 | |
| Nickel | **0.048** | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-02-0 | |
| Potassium | ND | mg/L | 25.0 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-09-7 | |
| Selenium | **0.12** | mg/L | 0.050 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-22-4 | |
| Sodium | **545** | mg/L | 25.0 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-23-5 | 1g |
| Zinc | **0.39** | mg/L | 0.050 | 1 | 08/31/07 13:30 | 09/08/07 15:40 | 7440-66-6 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| Mercury | **28.7** | ug/L | 20.0 | 100 | 08/30/07 10:58 | 08/31/07 17:06 | 7439-97-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **18.3** | mg/kg | 6.4 | 1000 | 08/30/07 10:58 | 08/31/07 17:04 | 7439-97-6 | |



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## ANALYTICAL RESULTS

Project: WWT Filter Cake
Pace Project No.: 922540

**Sample: WWT FILTER CAKE** **Lab ID: 922540001** Collected: 08/28/07 07:30 Received: 08/28/07 16:45 Matrix: Solid
Solid results reported on dry weight basis

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **19.2** | % | 0.10 | 1 | | 08/30/07 15:47 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **62.1** | mg/kg | 9.5 | 2 | | 09/06/07 16:14 | 7723-14-0 | |
| **ASTM D516-9002 Sulfate Soil** | Analytical Method: ASTM D516-90,02 | | | | | | | |
| Sulfate | **37900** | mg/kg | 10800 | 16 | | 09/10/07 22:32 | 14808-79-8 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

QC Batch: PMST/1057
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 922540001

SAMPLE DUPLICATE: 9821

| Parameter | Units | 922510002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 18.3 | 18.0 | 2 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

QC Batch: MERP/1039
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 922540001

METHOD BLANK: 9872
Associated Lab Samples: 922540001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

LABORATORY CONTROL SAMPLE: 9873

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.071 | 106 | 80-120 | |

MATRIX SPIKE SAMPLE: 9874

| Parameter | Units | 922455021 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.60 | .08 | 0.60 | 0 | 75-125 | M0 |

SAMPLE DUPLICATE: 9875

| Parameter | Units | 922455033 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.10 | 0.12 | 13 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

QC Batch: MERP/1040
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 922540001

METHOD BLANK: 9907
Associated Lab Samples: 922540001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Mercury | ug/L | ND | 0.20 | |

LABORATORY CONTROL SAMPLE: 9908

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2.5 | 2.8 | 111 | 80-120 | |

MATRIX SPIKE SAMPLE: 9909

| Parameter | Units | 922367009 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.91 | 2.5 | 3.3 | 95 | 75-125 | |

SAMPLE DUPLICATE: 9910

| Parameter | Units | 922383001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | 4.8 | 4.7 | 2 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

QC Batch: MPRP/1130
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 922540001

METHOD BLANK: 10446
Associated Lab Samples: 922540001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10.0 | |
| Chromium | mg/kg | ND | 0.50 | |
| Copper | mg/kg | ND | 0.50 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10.0 | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 500 | |
| Selenium | mg/kg | ND | 1.0 | |
| Silver | mg/kg | ND | 0.50 | |
| Sodium | mg/kg | ND | 500 | |
| Zinc | mg/kg | ND | 0.50 | |

LABORATORY CONTROL SAMPLE: 10447

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 52.6 | 105 | 80-120 | |
| Barium | mg/kg | 50 | 50.3 | 101 | 80-120 | |
| Boron | mg/kg | 50 | 49.9 | 100 | 80-120 | |
| Cadmium | mg/kg | 50 | 53.7 | 107 | 80-120 | |
| Calcium | mg/kg | 500 | 537 | 107 | 80-120 | |
| Chromium | mg/kg | 50 | 51.6 | 103 | 80-120 | |
| Copper | mg/kg | 50 | 50.8 | 102 | 80-120 | |
| Iron | mg/kg | 500 | 533 | 107 | 80-120 | |
| Lead | mg/kg | 50 | 52.9 | 106 | 80-120 | |
| Magnesium | mg/kg | 500 | 536 | 107 | 80-120 | |
| Manganese | mg/kg | 50 | 52.6 | 105 | 80-120 | |
| Molybdenum | mg/kg | 50 | 50.9 | 102 | 80-120 | |
| Nickel | mg/kg | 50 | 52.9 | 106 | 80-120 | |
| Potassium | mg/kg | 500 | 518 | 104 | 80-120 | |
| Selenium | mg/kg | 50 | 51.8 | 104 | 80-120 | |
| Silver | mg/kg | 25 | 25.1 | 100 | 80-120 | |
| Sodium | mg/kg | 500 | 519 | 104 | 80-120 | |
| Zinc | mg/kg | 50 | 52.0 | 104 | 80-120 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

MATRIX SPIKE SAMPLE: 10448

| Parameter | Units | 922455021 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 0.96 | 63.5 | 64.7 | 100 | 75-125 | |
| Barium | mg/kg | 55.7 | 63.5 | 128 | 114 | 75-125 | |
| Boron | mg/kg | 3.4 | 63.5 | 60.5 | 90 | 75-125 | |
| Cadmium | mg/kg | ND | 63.5 | 63.3 | 100 | 75-125 | |
| Calcium | mg/kg | 6840 | 635 | 3380 | -545 | 75-125 | M3 |
| Chromium | mg/kg | 8.8 | 63.5 | 73.7 | 102 | 75-125 | |
| Copper | mg/kg | 7.3 | 63.5 | 69.0 | 97 | 75-125 | |
| Iron | mg/kg | 9570 | 635 | 12400 | 454 | 75-125 | M3 |
| Lead | mg/kg | 26.1 | 63.5 | 88.0 | 97 | 75-125 | |
| Magnesium | mg/kg | 1170 | 635 | 1340 | 27 | 75-125 | M3 |
| Manganese | mg/kg | 492 | 63.5 | 567 | 118 | 75-125 | |
| Molybdenum | mg/kg | 0.61 | 63.5 | 59.5 | 93 | 75-125 | |
| Nickel | mg/kg | 2.0 | 63.5 | 64.7 | 99 | 75-125 | |
| Potassium | mg/kg | ND | 635 | 1200 | 189 | 75-125 | M3 |
| Selenium | mg/kg | 2.9 | 63.5 | 65.1 | 98 | 75-125 | |
| Silver | mg/kg | ND | 31.7 | 29.7 | 94 | 75-125 | |
| Sodium | mg/kg | ND | 635 | 771 | 122 | 75-125 | |
| Zinc | mg/kg | 14.8 | 63.5 | 77.8 | 99 | 75-125 | |

SAMPLE DUPLICATE: 10449

| Parameter | Units | 922455033 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 9.6 | 4.3 | 76 | R2 |
| Barium | mg/kg | 116 | 82.8 | 33 | R2 |
| Boron | mg/kg | 6.5 | 4.4 | 39 | R2 |
| Cadmium | mg/kg | 1.1 | 0.87 | 23 | R2 |
| Calcium | mg/kg | 2610 | 2560 | 2 | |
| Chromium | mg/kg | 2.4 | 4.0 | 50 | R2 |
| Copper | mg/kg | 48.1 | 33.5 | 36 | R2 |
| Iron | mg/kg | 8280 | 4290 | 64 | R2 |
| Lead | mg/kg | 15.1 | 16.6 | 10 | |
| Magnesium | mg/kg | 233 | 271 | 15 | |
| Manganese | mg/kg | 34.8 | 41.0 | 16 | |
| Molybdenum | mg/kg | 2.5 | 0.86 | 97 | R2 |
| Nickel | mg/kg | 5.9 | 4.8 | 20 | |
| Potassium | mg/kg | ND | 220J | 30 | R2 |
| Selenium | mg/kg | 2.3 | 1.4 | 51 | R2 |
| Silver | mg/kg | ND | ND | 0 | |
| Sodium | mg/kg | ND | 121J | 7 | |
| Zinc | mg/kg | 111 | 78.0 | 35 | R2 |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

QC Batch: MPRP/1132
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 922540001

METHOD BLANK: 10474
Associated Lab Samples: 922540001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | |
| Barium | mg/L | ND | 0.025 | |
| Boron | mg/L | ND | 0.050 | |
| Cadmium | mg/L | ND | 0.0050 | |
| Calcium | mg/L | ND | 0.50 | |
| Chromium | mg/L | ND | 0.025 | |
| Copper | mg/L | ND | 0.025 | |
| Iron | mg/L | ND | 0.25 | |
| Lead | mg/L | ND | 0.025 | |
| Magnesium | mg/L | ND | 0.50 | |
| Manganese | mg/L | ND | 0.025 | |
| Molybdenum | mg/L | ND | 0.025 | |
| Nickel | mg/L | ND | 0.025 | |
| Potassium | mg/L | ND | 25.0 | |
| Selenium | mg/L | ND | 0.050 | |
| Silver | mg/L | ND | 0.025 | |
| Sodium | mg/L | 537 | 25.0 | 1g |
| Zinc | mg/L | ND | 0.050 | |

LABORATORY CONTROL SAMPLE: 10475

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.6 | 104 | 80-120 | |
| Barium | mg/L | 2.5 | 2.1 | 84 | 80-120 | |
| Boron | mg/L | 2.5 | 2.5 | 99 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.4 | 96 | 80-120 | |
| Calcium | mg/L | 25 | 25.5 | 102 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.4 | 97 | 80-120 | |
| Copper | mg/L | 2.5 | 2.4 | 94 | 80-120 | |
| Iron | mg/L | 25 | 23.3 | 93 | 80-120 | |
| Lead | mg/L | 2.5 | 2.3 | 91 | 80-120 | |
| Magnesium | mg/L | 25 | 22.5 | 90 | 80-120 | |
| Manganese | mg/L | 2.5 | 2.3 | 91 | 80-120 | |
| Molybdenum | mg/L | 2.5 | 2.4 | 95 | 80-120 | |
| Nickel | mg/L | 2.5 | 2.4 | 94 | 80-120 | |
| Potassium | mg/L | 25 | 54.9 | 220 | 80-120 | L0 |
| Selenium | mg/L | 2.5 | 2.6 | 105 | 80-120 | |
| Silver | mg/L | 1.2 | 1.2 | 94 | 80-120 | |
| Sodium | mg/L | 25 | 548 | 2190 | 80-120 | 1g |
| Zinc | mg/L | 2.5 | 2.5 | 101 | 80-120 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

MATRIX SPIKE SAMPLE: 10476

| Parameter | Units | 922383001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 2.5 | 2.7 | 109 | 75-125 | |
| Barium | mg/L | 0.090 | 2.5 | 2.4 | 93 | 75-125 | |
| Boron | mg/L | 0.63 | 2.5 | 3.2 | 104 | 75-125 | |
| Cadmium | mg/L | ND | 2.5 | 2.6 | 103 | 75-125 | |
| Calcium | mg/L | 39.5 | 25 | 66.5 | 108 | 75-125 | |
| Chromium | mg/L | ND | 2.5 | 2.6 | 104 | 75-125 | |
| Copper | mg/L | ND | 2.5 | 2.5 | 101 | 75-125 | |
| Iron | mg/L | ND | 25 | 25.6 | 102 | 75-125 | |
| Lead | mg/L | ND | 2.5 | 2.5 | 99 | 75-125 | |
| Magnesium | mg/L | 13.0 | 25 | 37.7 | 99 | 75-125 | |
| Manganese | mg/L | 0.076 | 2.5 | 2.6 | 99 | 75-125 | |
| Molybdenum | mg/L | ND | 2.5 | 2.6 | 102 | 75-125 | |
| Nickel | mg/L | ND | 2.5 | 2.6 | 103 | 75-125 | |
| Potassium | mg/L | 30.0 | 25 | 65.5 | 142 | 75-125 | M3 |
| Selenium | mg/L | ND | 2.5 | 2.6 | 105 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 1.2 | 100 | 75-125 | |
| Sodium | mg/L | 399 | 25 | 416 | 70 | 75-125 | |
| Zinc | mg/L | ND | 2.5 | 2.7 | 108 | 75-125 | |

SAMPLE DUPLICATE: 10477

| Parameter | Units | 922538001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | 0.11 | 0.11 | 1 | |
| Barium | mg/L | 10.2 | 10.0 | 2 | |
| Boron | mg/L | 0.32 | 0.31 | 3 | |
| Cadmium | mg/L | ND | ND | 17 | |
| Calcium | mg/L | 23.5 | 23.1 | 2 | |
| Chromium | mg/L | ND | .014J | 0 | |
| Copper | mg/L | 0.066 | 0.064 | 3 | |
| Iron | mg/L | ND | ND | 5 | |
| Lead | mg/L | ND | ND | 0 | |
| Magnesium | mg/L | 2.2 | 2.2 | 1 | |
| Manganese | mg/L | 0.15 | 0.15 | 2 | |
| Molybdenum | mg/L | ND | ND | 96 | |
| Nickel | mg/L | ND | .022J | 3 | |
| Potassium | mg/L | ND | 3.2J | 2 | |
| Selenium | mg/L | 0.14 | 0.13 | 9 | |
| Silver | mg/L | ND | ND | 28 | |
| Sodium | mg/L | | 545 | | 1g |
| Zinc | mg/L | 0.066 | 0.070 | 6 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

QC Batch: WETA/1133
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 922540001

METHOD BLANK: 12253
Associated Lab Samples: 922540001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | |

LABORATORY CONTROL SAMPLE: 12254

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 17.8 | 89 | 80-120 | |

MATRIX SPIKE SAMPLE: 12255

| Parameter | Units | 922653001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 25.2 | 113 | 60.8 | 31 | 75-125 | M1 |

SAMPLE DUPLICATE: 12258

| Parameter | Units | 922653002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 30.1 | 37.8 | 22 | R1 |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake
Pace Project No.: 922540

QC Batch: WETA/1158
QC Batch Method: ASTM D516-90,02
Analysis Method: ASTM D516-90,02
Analysis Description: ASTM D516-9002 Sulfate Soil
Associated Lab Samples: 922540001

METHOD BLANK: 13977
Associated Lab Samples: 922540001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Sulfate | mg/kg | ND | 500 | |

LABORATORY CONTROL SAMPLE: 13978

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000 | 1830 | 92 | 90-110 | |

MATRIX SPIKE SAMPLE: 13980

| Parameter | Units | 922540001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 37900 | 2430 | 56900 | 785 | 75-125 | M1 |

SAMPLE DUPLICATE: 13979

| Parameter | Units | 922540001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 37900 | 30500 | 21 | R1 |



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# QUALIFIERS

Project: WWT Filter Cake
Pace Project No.: 922540

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

## ANALYTE QUALIFIERS

| | |
|---|---|
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits. |
| M0 | Matrix spike recovery was outside laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M3 | Matrix spike recovery was outside laboratory control limits due to matrix interferences. |
| R1 | RPD value was outside control limits. |
| R2 | RPD value was outside control limits due to matrix interference |
| 1g | TCLP extract contains sodium. |



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February 21, 2008

Ms. Mariea Keezel
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

Dear Ms. Keezel:
Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures



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## CERTIFICATIONS

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

**Charlotte Certification IDs**
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

**Asheville Certification IDs**
Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

**Eden Certification IDs**
North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633



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## ANALYTICAL RESULTS

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

**Sample: WWT FILTER CAKE** **Lab ID: 9212982001** Collected: 02/04/08 13:48 Received: 02/06/08 10:10 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **35.7** | mg/kg | 0.67 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-38-2 | |
| Barium | **225** | mg/kg | 0.67 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-39-3 | |
| Boron | **123** | mg/kg | 1.3 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-42-8 | |
| Cadmium | **0.37** | mg/kg | 0.13 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-43-9 | |
| Calcium | **221000** | mg/kg | 1330 | 100 | 02/07/08 11:59 | 02/08/08 11:42 | 7440-70-2 | |
| Chromium | **47.7** | mg/kg | 0.67 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-47-3 | |
| Copper | **43.3** | mg/kg | 0.67 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-50-8 | |
| Iron | **24300** | mg/kg | 66.6 | 10 | 02/07/08 11:59 | 02/07/08 15:22 | 7439-89-6 | |
| Lead | **15.2** | mg/kg | 0.67 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7439-92-1 | |
| Magnesium | **5000** | mg/kg | 13.3 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7439-95-4 | |
| Manganese | **1590** | mg/kg | 6.7 | 10 | 02/07/08 11:59 | 02/07/08 15:22 | 7439-96-5 | |
| Molybdenum | **4.8** | mg/kg | 0.67 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7439-98-7 | |
| Nickel | **36.9** | mg/kg | 0.67 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-02-0 | |
| Potassium | **5370** | mg/kg | 666 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-09-7 | |
| Selenium | **15.6** | mg/kg | 1.3 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.67 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-22-4 | |
| Sodium | ND | mg/kg | 666 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-23-5 | |
| Zinc | **79.3** | mg/kg | 1.3 | 1 | 02/07/08 11:59 | 02/07/08 13:14 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **22.9** | mg/kg | 1.5 | 200 | 02/07/08 10:12 | 02/07/08 12:30 | 7439-97-6 | |
| | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **29.2** | % | 0.10 | 1 | | 02/11/08 16:24 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **36.5** | mg/kg | 5.6 | 2 | | 02/11/08 20:22 | 7723-14-0 | |
| **ASTM D516-9002 Sulfate Soil** | Analytical Method: ASTM D516-90,02 | | | | | | | |
| Sulfate | **149000** | mg/kg | 19100 | 27 | | 02/06/08 17:55 | 14808-79-8 | |



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## ANALYTICAL RESULTS

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

**Sample: WWT FILTER CAKE TCLP** **Lab ID: 9212982002** Collected: 02/04/08 13:48 Received: 02/06/08 10:10 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| Arsenic | ND | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-38-2 | |
| Barium | **0.081** | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-39-3 | |
| Boron | **4.3** | mg/L | 0.050 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-42-8 | |
| Cadmium | **0.0095** | mg/L | 0.0050 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-43-9 | |
| Chromium | **0.039** | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-47-3 | |
| Copper | **0.17** | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-50-8 | |
| Iron | ND | mg/L | 0.25 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7439-89-6 | |
| Lead | ND | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7439-92-1 | |
| Magnesium | **29.6** | mg/L | 0.50 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7439-95-4 | |
| Manganese | **0.49** | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7439-96-5 | |
| Molybdenum | ND | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7439-98-7 | |
| Nickel | **0.21** | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-02-0 | |
| Potassium | ND | mg/L | 25.0 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-09-7 | |
| Selenium | **0.15** | mg/L | 0.050 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-22-4 | |
| Sodium | **495** | mg/L | 25.0 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-23-5 | |
| Zinc | **1.2** | mg/L | 0.050 | 1 | 02/13/08 09:00 | 02/13/08 19:07 | 7440-66-6 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| Mercury | **0.014** | mg/L | 0.0010 | 5 | 02/13/08 10:21 | 02/13/08 15:12 | 7439-97-6 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

QC Batch: WETA/2060
QC Batch Method: ASTM D516-90,02
Associated Lab Samples: 9212982001

Analysis Method: ASTM D516-90,02
Analysis Description: ASTM D516-9002 Sulfate Soil

METHOD BLANK: 73744
Associated Lab Samples: 9212982001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Sulfate | mg/kg | ND | 500 | |

LABORATORY CONTROL SAMPLE: 73745

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000 | 2040 | 102 | 90-110 | |

MATRIX SPIKE SAMPLE: 73746

| Parameter | Units | 9212872001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | mg/kg | ND | 1920 | 1460 | 76 | 75-125 | |

SAMPLE DUPLICATE: 73747

| Parameter | Units | 9212982001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 149000 | 167000 | 12 | |



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(704)875-9092

## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

QC Batch: MPRP/1836
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9212982001

METHOD BLANK: 73959
Associated Lab Samples: 9212982001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10.0 | |
| Chromium | mg/kg | ND | 0.50 | |
| Copper | mg/kg | ND | 0.50 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10.0 | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 500 | |
| Selenium | mg/kg | ND | 1.0 | |
| Silver | mg/kg | ND | 0.50 | |
| Sodium | mg/kg | ND | 500 | |
| Zinc | mg/kg | ND | 1.0 | |

LABORATORY CONTROL SAMPLE: 73960

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 53.4 | 107 | 80-120 | |
| Barium | mg/kg | 50 | 52.0 | 104 | 80-120 | |
| Boron | mg/kg | 50 | 52.4 | 105 | 80-120 | |
| Cadmium | mg/kg | 50 | 52.4 | 105 | 80-120 | |
| Calcium | mg/kg | 500 | 555 | 111 | 80-120 | |
| Chromium | mg/kg | 50 | 53.1 | 106 | 80-120 | |
| Copper | mg/kg | 50 | 53.6 | 107 | 80-120 | |
| Iron | mg/kg | 500 | 541 | 108 | 80-120 | |
| Lead | mg/kg | 50 | 52.8 | 106 | 80-120 | |
| Magnesium | mg/kg | 500 | 532 | 106 | 80-120 | |
| Manganese | mg/kg | 50 | 53.4 | 107 | 80-120 | |
| Molybdenum | mg/kg | 50 | 52.3 | 105 | 80-120 | |
| Nickel | mg/kg | 50 | 52.9 | 106 | 80-120 | |
| Potassium | mg/kg | 500 | 492J | 98 | 80-120 | |
| Selenium | mg/kg | 50 | 53.4 | 107 | 80-120 | |
| Silver | mg/kg | 25 | 26.0 | 104 | 80-120 | |
| Sodium | mg/kg | 500 | 471J | 94 | 80-120 | |
| Zinc | mg/kg | 50 | 53.1 | 106 | 80-120 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

MATRIX SPIKE SAMPLE: 73961

| Parameter | Units | 9212810001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 48.1 | 48.1 | 99 | 75-125 | |
| Barium | mg/kg | 1.42 ug/g | 48.1 | 47.5 | 96 | 75-125 | |
| Boron | mg/kg | ND | 48.1 | 47.4 | 98 | 75-125 | |
| Cadmium | mg/kg | 0.943 ug/g | 48.1 | 47.5 | 97 | 75-125 | |
| Calcium | mg/kg | 137 ug/g | 481 | 609 | 98 | 75-125 | |
| Chromium | mg/kg | 4.84 ug/g | 48.1 | 51.2 | 96 | 75-125 | |
| Copper | mg/kg | 0.939 ug/g | 48.1 | 49.8 | 102 | 75-125 | |
| Iron | mg/kg | 71.5 ug/g | 481 | 525 | 94 | 75-125 | |
| Lead | mg/kg | 28.2 ug/g | 48.1 | 64.1 | 75 | 75-125 | |
| Magnesium | mg/kg | 23.8 ug/g | 481 | 491 | 97 | 75-125 | |
| Manganese | mg/kg | 0.909 ug/g | 48.1 | 48.1 | 98 | 75-125 | |
| Molybdenum | mg/kg | 0.691 ug/g | 48.1 | 46.9 | 96 | 75-125 | |
| Nickel | mg/kg | 3.16 ug/g | 48.1 | 49.0 | 95 | 75-125 | |
| Potassium | mg/kg | ND | 481 | 606 | 120 | 75-125 | |
| Selenium | mg/kg | ND | 48.1 | 48.5 | 100 | 75-125 | |
| Silver | mg/kg | ND | 24 | 24.0 | 100 | 75-125 | |
| Sodium | mg/kg | 6860 ug/g | 481 | 5600 | -263 | 75-125 | M3 |
| Zinc | mg/kg | 15300 ug/g | 48.1 | 8940 | -13200 | 75-125 | M3 |

SAMPLE DUPLICATE: 73962

| Parameter | Units | 9212810002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 0.607 ug/g | .44J | 31 | |
| Barium | mg/kg | ND | .16J | 62 | |
| Boron | mg/kg | ND | .19J | 48 | |
| Cadmium | mg/kg | ND | ND | 104 | |
| Calcium | mg/kg | 37.2 ug/g | 37.0 | .6 | |
| Chromium | mg/kg | 39.4 ug/g | 41.6 | 5 | |
| Copper | mg/kg | 1.43 ug/g | 1.5 | 2 | |
| Iron | mg/kg | 99.0 ug/g | 100 | 1 | |
| Lead | mg/kg | ND | ND | 118 | |
| Magnesium | mg/kg | ND | 1.7J | .9 | |
| Manganese | mg/kg | 0.953 ug/g | 0.93 | 3 | |
| Molybdenum | mg/kg | 2.55 ug/g | 2.6 | 1 | |
| Nickel | mg/kg | 16.2 ug/g | 16.5 | 2 | |
| Potassium | mg/kg | ND | ND | 0 | |
| Selenium | mg/kg | ND | 1.0 | 9 | |
| Silver | mg/kg | ND | .049J | 173 | |
| Sodium | mg/kg | ND | ND | 0 | |
| Zinc | mg/kg | 1.75 ug/g | ND | 125 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

QC Batch: MERP/1312
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 9212982001

METHOD BLANK: 73989
Associated Lab Samples: 9212982001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

LABORATORY CONTROL SAMPLE: 73990

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.072 | 108 | 80-120 | |

MATRIX SPIKE SAMPLE: 73991

| Parameter | Units | 9212980001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.28 | .093 | 0.38 | 101 | 75-125 | |

SAMPLE DUPLICATE: 73992

| Parameter | Units | 9212982001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 22.9 | 24.7 | 7 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

QC Batch: PMST/1450
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9212982001

SAMPLE DUPLICATE: 75534

| Parameter | Units | 9212982001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 29.2 | 29.8 | 2 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

QC Batch: WETA/2077
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9212982001

METHOD BLANK: 75617
Associated Lab Samples: 9212982001

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | |

LABORATORY CONTROL SAMPLE: 75618

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 23.3 | 116 | 80-120 | |

MATRIX SPIKE SAMPLE: 75619

| Parameter | Units | 9213272001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 67.4 | 38.8 | 79.0 | 30 | 75-125 | |

SAMPLE DUPLICATE: 75620

| Parameter | Units | 9212980001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 6.5 | 8.4 | 25 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

QC Batch: MPRP/1864
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9212982002

METHOD BLANK: 76243
Associated Lab Samples: 9212982002

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | |
| Barium | mg/L | ND | 0.025 | |
| Boron | mg/L | ND | 0.050 | |
| Cadmium | mg/L | ND | 0.0050 | |
| Chromium | mg/L | ND | 0.025 | |
| Copper | mg/L | ND | 0.025 | |
| Iron | mg/L | ND | 0.25 | |
| Lead | mg/L | ND | 0.025 | |
| Magnesium | mg/L | ND | 0.50 | |
| Manganese | mg/L | ND | 0.025 | |
| Molybdenum | mg/L | ND | 0.025 | |
| Nickel | mg/L | ND | 0.025 | |
| Potassium | mg/L | ND | 25.0 | |
| Selenium | mg/L | ND | 0.050 | |
| Silver | mg/L | ND | 0.025 | |
| Sodium | mg/L | ND | 25.0 | |
| Zinc | mg/L | ND | 0.050 | |

LABORATORY CONTROL SAMPLE: 76244

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.4 | 98 | 80-120 | |
| Barium | mg/L | 2.5 | 2.5 | 99 | 80-120 | |
| Boron | mg/L | 2.5 | 2.5 | 98 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.4 | 95 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.5 | 100 | 80-120 | |
| Copper | mg/L | 2.5 | 2.5 | 100 | 80-120 | |
| Iron | mg/L | 25 | 24.7 | 99 | 80-120 | |
| Lead | mg/L | 2.5 | 2.4 | 98 | 80-120 | |
| Magnesium | mg/L | 25 | 24.9 | 100 | 80-120 | |
| Manganese | mg/L | 2.5 | 2.5 | 99 | 80-120 | |
| Molybdenum | mg/L | 2.5 | 2.4 | 95 | 80-120 | |
| Nickel | mg/L | 2.5 | 2.4 | 96 | 80-120 | |
| Potassium | mg/L | 25 | 24.4J | 98 | 80-120 | |
| Selenium | mg/L | 2.5 | 2.4 | 97 | 80-120 | |
| Silver | mg/L | 1.2 | 1.2 | 98 | 80-120 | |
| Sodium | mg/L | 25 | 25.2 | 101 | 80-120 | |
| Zinc | mg/L | 2.5 | 2.4 | 95 | 80-120 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

MATRIX SPIKE SAMPLE: 76245

| Parameter | Units | 9212755001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 2.5 | 2.5 | 101 | 75-125 | |
| Barium | mg/L | 0.040 | 2.5 | 2.5 | 99 | 75-125 | |
| Boron | mg/L | 0.30 | 2.5 | 2.8 | 99 | 75-125 | |
| Cadmium | mg/L | ND | 2.5 | 2.4 | 97 | 75-125 | |
| Chromium | mg/L | ND | 2.5 | 2.6 | 103 | 75-125 | |
| Copper | mg/L | 0.034 | 2.5 | 2.6 | 103 | 75-125 | |
| Iron | mg/L | 1.1 | 25 | 26.4 | 101 | 75-125 | |
| Lead | mg/L | 0.16 | 2.5 | 2.6 | 98 | 75-125 | |
| Magnesium | mg/L | 2.8 | 25 | 28.0 | 101 | 75-125 | |
| Manganese | mg/L | ND | 2.5 | 2.5 | 100 | 75-125 | |
| Molybdenum | mg/L | 0.031 | 2.5 | 2.5 | 97 | 75-125 | |
| Nickel | mg/L | 0.033 | 2.5 | 2.5 | 98 | 75-125 | |
| Potassium | mg/L | ND | 25 | 30.2 | 107 | 75-125 | |
| Selenium | mg/L | ND | 2.5 | 2.5 | 99 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 1.2 | 100 | 75-125 | |
| Sodium | mg/L | 27.5 | 25 | 52.5 | 100 | 75-125 | |
| Zinc | mg/L | 1.2 | 2.5 | 3.6 | 95 | 75-125 | |

SAMPLE DUPLICATE: 76246

| Parameter | Units | 9212756002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | 0.037 | 0.025 | 37 | R3 |
| Barium | mg/L | ND | .015J | .3 | |
| Boron | mg/L | 0.32 | 0.31 | 3 | |
| Cadmium | mg/L | 0.012 | 0.012 | 0 | |
| Chromium | mg/L | 110 | 110 | .2 | |
| Copper | mg/L | 0.066 | 0.065 | 2 | |
| Iron | mg/L | 4.9 | 4.6 | 7 | |
| Lead | mg/L | 0.19 | 0.19 | 2 | |
| Magnesium | mg/L | ND | .31J | 1 | |
| Manganese | mg/L | ND | .01J | 33 | |
| Molybdenum | mg/L | 0.036 | .0094J | 118 | |
| Nickel | mg/L | 0.038 | ND | 136 | |
| Potassium | mg/L | ND | .41J | 2 | |
| Selenium | mg/L | ND | .035J | 17 | |
| Silver | mg/L | ND | ND | 0 | |
| Sodium | mg/L | 494 | 495 | .2 | |
| Zinc | mg/L | ND | .027J | .6 | |



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## QUALITY CONTROL DATA

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

QC Batch: MERP/1321
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9212982002

METHOD BLANK: 76263
Associated Lab Samples: 9212982002

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | |

LABORATORY CONTROL SAMPLE: 76264

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | .0025 | 0.0026 | 103 | 80-120 | |

MATRIX SPIKE SAMPLE: 76265

| Parameter | Units | 9212755001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | 153 ug/L | .0025 | 0.14 | -480 | 75-125 | M0 |

SAMPLE DUPLICATE: 76266

| Parameter | Units | 9212756002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | 3.4 ug/L | 0.0034 | 0 | |



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# QUALIFIERS

Project: WWT Filter Cake 2/4
Pace Project No.: 9212982

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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## ANALYTE QUALIFIERS

| | |
|---|---|
| M0 | Matrix spike recovery was outside laboratory control limits. |
| M3 | Matrix spike recovery was outside laboratory control limits due to matrix interferences. |
| R3 | RPD value was outside control limits due to uncertainty of values at or near the PRL. |



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October 02, 2009

Ms. Mariea Keezel
Progress Energy
200 CP&L Drive
Arden, NC 28704

RE: Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

Dear Ms. Keezel:
Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures



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## CERTIFICATIONS

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

**Charlotte Certification IDs**

West Virginia Certification #: 357
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010

**Asheville Certification IDs**

West Virginia Certification #: 356
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
Connecticut Certification #: PH-0106
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
Virginia Certification #: 00072
North Carolina Drinking Water Certification #: 37712



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# ANALYTICAL RESULTS

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

**Sample: WWT FILTER CAKE** **Lab ID: 9253712001** Collected: 09/23/09 10:30 Received: 09/23/09 14:30 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **18.2** | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-38-2 | |
| Barium | **131** | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-39-3 | |
| Boron | **96.4** | mg/kg | 6.5 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-42-8 | |
| Cadmium | **1.6** | mg/kg | 0.13 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-43-9 | |
| Calcium | **206000** | mg/kg | 261 | 20 | 09/24/09 14:32 | 09/25/09 15:50 | 7440-70-2 | |
| Chromium | **47.3** | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-47-3 | |
| Copper | **34.6** | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-50-8 | |
| Iron | **23500** | mg/kg | 131 | 20 | 09/24/09 14:32 | 09/25/09 15:50 | 7439-89-6 | |
| Lead | **6.7** | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7439-92-1 | |
| Magnesium | **3700** | mg/kg | 13.1 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7439-95-4 | |
| Manganese | **1040** | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7439-96-5 | |
| Molybdenum | **3.8** | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7439-98-7 | |
| Nickel | **27.8** | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-02-0 | |
| Potassium | **9450** | mg/kg | 654 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-09-7 | |
| Selenium | **22.0** | mg/kg | 1.3 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.65 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-22-4 | |
| Sodium | ND | mg/kg | 654 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-23-5 | |
| Zinc | **74.4** | mg/kg | 1.3 | 1 | 09/24/09 14:32 | 09/24/09 23:52 | 7440-66-6 | |
| **6010 MET ICP, TCLP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 09/29/09 10:23 | | | | | | | |
| Arsenic | ND | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-38-2 | |
| Barium | **0.056** | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-39-3 | |
| Boron | **2.3** | mg/L | 0.050 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-42-8 | |
| Cadmium | **0.0072** | mg/L | 0.0050 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-43-9 | |
| Calcium | **737** | mg/L | 2.5 | 5 | 09/29/09 13:50 | 09/30/09 15:25 | 7440-70-2 | M0 |
| Chromium | **0.039** | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-47-3 | |
| Copper | **0.17** | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-50-8 | |
| Iron | ND | mg/L | 0.25 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7439-89-6 | |
| Lead | ND | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7439-92-1 | |
| Magnesium | **16.5** | mg/L | 0.50 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7439-95-4 | |
| Manganese | **2.0** | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7439-96-5 | |
| Molybdenum | ND | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7439-98-7 | |
| Nickel | **0.13** | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-02-0 | |
| Potassium | ND | mg/L | 25.0 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-09-7 | L1,M0 |
| Selenium | ND | mg/L | 0.050 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7782-49-2 | |
| Silver | ND | mg/L | 0.025 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-22-4 | |
| Sodium | **1190** | mg/L | 125 | 5 | 09/29/09 13:50 | 09/30/09 15:25 | 7440-23-5 | L1,M0, Z2 |
| Zinc | **0.94** | mg/L | 0.050 | 1 | 09/29/09 13:50 | 09/30/09 16:11 | 7440-66-6 | |
| **7470 Mercury, TCLP** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| | Leachate Method/Date: EPA 1311; 09/29/09 10:23 | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 09/29/09 13:20 | 09/30/09 14:31 | 7439-97-6 | |



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## ANALYTICAL RESULTS

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

**Sample: WWT FILTER CAKE** **Lab ID: 9253712001** Collected: 09/23/09 10:30 Received: 09/23/09 14:30 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **17.0** | mg/kg | 1.0 | 200 | 09/28/09 09:18 | 09/28/09 11:44 | 7439-97-6 | Z2 |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **34.1** | % | 0.10 | 1 | | 09/28/09 09:12 | | |
| **365.1 Phosphorus, Total** | Analytical Method: EPA 365.1 | | | | | | | |
| Phosphorus | **1760** | mg/kg | 135 | 25 | | 09/30/09 12:55 | 7723-14-0 | M0 |
| **ASTM D516-90 Sulfate Soil** | Analytical Method: ASTM D516-90 | | | | | | | |
| Sulfate | **20800** | mg/kg | 3750 | 50 | | 09/29/09 13:17 | 14808-79-8 | M0 |



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## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

QC Batch: WETA/5929
QC Batch Method: ASTM D516-90
Analysis Method: ASTM D516-90
Analysis Description: ASTM D516-90 Sulfate Soil
Associated Lab Samples: 9253712001

METHOD BLANK: 342760 Matrix: Solid
Associated Lab Samples: 9253712001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Sulfate | mg/kg | ND | 500 | 09/29/09 12:43 | |

LABORATORY CONTROL SAMPLE: 342761

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 198 | 202 | 102 | 90-110 | |

MATRIX SPIKE SAMPLE: 342763

| Parameter | Units | 9253712001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 20800 | 300 | 19600 | -406 | 75-125 | M0 |

SAMPLE DUPLICATE: 342762

| Parameter | Units | 9253712001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 20800 | 19400 | 7 | |



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## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

QC Batch: WETA/5932
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9253712001

METHOD BLANK: 342870
Matrix: Solid
Associated Lab Samples: 9253712001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 2.0 | 09/30/09 12:55 | |

LABORATORY CONTROL SAMPLE: 342871

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20 | 18.2 | 91 | 90-110 | |

MATRIX SPIKE SAMPLE: 342872

| Parameter | Units | 9253712001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 1760 | 56.1 | 1690 | -128 | 90-110 | M0 |



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## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

QC Batch: MERP/2401
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9253712001

METHOD BLANK: 341207 Matrix: Water
Associated Lab Samples: 9253712001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 09/30/09 13:42 | |

LABORATORY CONTROL SAMPLE: 341208

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | .0025 | 0.0024 | 98 | 80-120 | |

MATRIX SPIKE SAMPLE: 341209

| Parameter | Units | 9253466001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | .0025 | 0.0031 | 121 | 75-125 | |

SAMPLE DUPLICATE: 341210

| Parameter | Units | 9253466002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/L | ND | ND | | |



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## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

QC Batch: MPRP/5118
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9253712001

METHOD BLANK: 341035
Matrix: Solid
Associated Lab Samples: 9253712001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Barium | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Boron | mg/kg | ND | 5.0 | 09/24/09 23:18 | |
| Cadmium | mg/kg | ND | 0.10 | 09/24/09 23:18 | |
| Calcium | mg/kg | ND | 10.0 | 09/24/09 23:18 | |
| Chromium | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Copper | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Iron | mg/kg | ND | 5.0 | 09/24/09 23:18 | |
| Lead | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Magnesium | mg/kg | ND | 10.0 | 09/24/09 23:18 | |
| Manganese | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Molybdenum | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Nickel | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Potassium | mg/kg | ND | 500 | 09/24/09 23:18 | |
| Selenium | mg/kg | ND | 1.0 | 09/24/09 23:18 | |
| Silver | mg/kg | ND | 0.50 | 09/24/09 23:18 | |
| Sodium | mg/kg | ND | 500 | 09/24/09 23:18 | |
| Zinc | mg/kg | ND | 1.0 | 09/24/09 23:18 | |

LABORATORY CONTROL SAMPLE: 341036

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 50.9 | 102 | 80-120 | |
| Barium | mg/kg | 50 | 51.6 | 103 | 80-120 | |
| Boron | mg/kg | 50 | 51.3 | 103 | 80-120 | |
| Cadmium | mg/kg | 50 | 50.4 | 101 | 80-120 | |
| Calcium | mg/kg | 500 | 510 | 102 | 80-120 | |
| Chromium | mg/kg | 50 | 51.0 | 102 | 80-120 | |
| Copper | mg/kg | 50 | 50.9 | 102 | 80-120 | |
| Iron | mg/kg | 500 | 512 | 102 | 80-120 | |
| Lead | mg/kg | 50 | 50.6 | 101 | 80-120 | |
| Magnesium | mg/kg | 500 | 512 | 102 | 80-120 | |
| Manganese | mg/kg | 50 | 51.2 | 102 | 80-120 | |
| Molybdenum | mg/kg | 50 | 51.3 | 103 | 80-120 | |
| Nickel | mg/kg | 50 | 51.1 | 102 | 80-120 | |
| Potassium | mg/kg | 500 | 501 | 100 | 80-120 | |
| Selenium | mg/kg | 50 | 50.2 | 100 | 80-120 | |
| Silver | mg/kg | 25 | 25.7 | 103 | 80-120 | |
| Sodium | mg/kg | 500 | 549 | 110 | 80-120 | |
| Zinc | mg/kg | 50 | 51.1 | 102 | 80-120 | |



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## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

MATRIX SPIKE SAMPLE: 341037

| Parameter | Units | 9253555003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 46.3 | 49.9 | 108 | 75-125 | |
| Barium | mg/kg | ND | 46.3 | 48.1 | 104 | 75-125 | |
| Boron | mg/kg | ND | 46.3 | 49.4 | 107 | 75-125 | |
| Cadmium | mg/kg | ND | 46.3 | 47.4 | 102 | 75-125 | |
| Calcium | mg/kg | ND | 463 | 474 | 102 | 75-125 | |
| Chromium | mg/kg | ND | 46.3 | 47.3 | 102 | 75-125 | |
| Copper | mg/kg | ND | 46.3 | 48.0 | 103 | 75-125 | |
| Iron | mg/kg | ND | 463 | 479 | 103 | 75-125 | |
| Lead | mg/kg | ND | 46.3 | 46.7 | 101 | 75-125 | |
| Magnesium | mg/kg | ND | 463 | 469 | 101 | 75-125 | |
| Manganese | mg/kg | ND | 46.3 | 47.4 | 102 | 75-125 | |
| Molybdenum | mg/kg | ND | 46.3 | 48.0 | 104 | 75-125 | |
| Nickel | mg/kg | ND | 46.3 | 47.6 | 103 | 75-125 | |
| Potassium | mg/kg | ND | 463 | 476 | 102 | 75-125 | |
| Selenium | mg/kg | ND | 46.3 | 54.5 | 117 | 75-125 | |
| Silver | mg/kg | ND | 23.1 | 23.9 | 103 | 75-125 | |
| Sodium | mg/kg | ND | 463 | 519 | 109 | 75-125 | |
| Zinc | mg/kg | ND | 46.3 | 48.1 | 104 | 75-125 | |

SAMPLE DUPLICATE: 341038

| Parameter | Units | 9253555004 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 1.15 ug/g | 2.3 | 66 | R1 |
| Barium | mg/kg | 45.2 ug/g | 43.4 | 4 | |
| Boron | mg/kg | ND | ND | | |
| Cadmium | mg/kg | 0.638 ug/g | 0.78 | 21 | R1 |
| Calcium | mg/kg | 2380 ug/g | 2500 | 5 | |
| Chromium | mg/kg | 78.5 ug/g | 88.3 | 12 | |
| Copper | mg/kg | 88.7 ug/g | 89.2 | 1 | |
| Iron | mg/kg | 8270 ug/g | 10700 | 26 | R1 |
| Lead | mg/kg | 8.96 ug/g | 8.5 | 5 | |
| Magnesium | mg/kg | 3410 ug/g | 3600 | 5 | |
| Manganese | mg/kg | 74.8 ug/g | 102 | 30 | R1 |
| Molybdenum | mg/kg | 3.03 ug/g | 2.0 | 39 | R1 |
| Nickel | mg/kg | 48.5 ug/g | 52.3 | 8 | |
| Potassium | mg/kg | 1080 ug/g | 1040 | 3 | |
| Selenium | mg/kg | ND | .75J | | |
| Silver | mg/kg | ND | .064J | | |
| Sodium | mg/kg | ND | 192J | | |
| Zinc | mg/kg | 904 ug/g | 892 | 1 | |



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## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

QC Batch: MPRP/5140
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9253712001

METHOD BLANK: 342862
Matrix: Water
Associated Lab Samples: 9253712001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Barium | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Boron | mg/L | ND | 0.050 | 09/30/09 15:18 | |
| Cadmium | mg/L | ND | 0.0050 | 09/30/09 15:18 | |
| Calcium | mg/L | ND | 0.50 | 09/30/09 15:18 | |
| Chromium | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Copper | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Iron | mg/L | ND | 0.25 | 09/30/09 15:18 | |
| Lead | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Magnesium | mg/L | ND | 0.50 | 09/30/09 15:18 | |
| Manganese | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Molybdenum | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Nickel | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Potassium | mg/L | ND | 25.0 | 09/30/09 15:18 | |
| Selenium | mg/L | ND | 0.050 | 09/30/09 15:18 | |
| Silver | mg/L | ND | 0.025 | 09/30/09 15:18 | |
| Sodium | mg/L | 515 | 25.0 | 09/30/09 15:18 | |
| Zinc | mg/L | ND | 0.050 | 09/30/09 15:18 | |

LABORATORY CONTROL SAMPLE: 342863

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 2.5 | 2.7 | 108 | 80-120 | |
| Barium | mg/L | 2.5 | 2.5 | 101 | 80-120 | |
| Boron | mg/L | 2.5 | 2.8 | 112 | 80-120 | |
| Cadmium | mg/L | 2.5 | 2.5 | 99 | 80-120 | |
| Calcium | mg/L | 25 | 25.6 | 102 | 80-120 | |
| Chromium | mg/L | 2.5 | 2.5 | 100 | 80-120 | |
| Copper | mg/L | 2.5 | 2.5 | 102 | 80-120 | |
| Iron | mg/L | 25 | 25.4 | 101 | 80-120 | |
| Lead | mg/L | 2.5 | 2.3 | 94 | 80-120 | |
| Magnesium | mg/L | 25 | 23.7 | 95 | 80-120 | |
| Manganese | mg/L | 2.5 | 2.5 | 99 | 80-120 | |
| Molybdenum | mg/L | 2.5 | 2.6 | 105 | 80-120 | |
| Nickel | mg/L | 2.5 | 2.4 | 97 | 80-120 | |
| Potassium | mg/L | 25 | 46.4 | 185 | 80-120 | L0 |
| Selenium | mg/L | 2.5 | 2.8 | 111 | 80-120 | |
| Silver | mg/L | 1.2 | 1.3 | 104 | 80-120 | |
| Sodium | mg/L | 25 | 699 | 2797 | 80-120 | L0 |
| Zinc | mg/L | 2.5 | 2.7 | 106 | 80-120 | |



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## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

MATRIX SPIKE SAMPLE: 342864

| Parameter | Units | 9253712001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 2.5 | 2.8 | 111 | 75-125 | |
| Barium | mg/L | 0.056 | 2.5 | 2.6 | 100 | 75-125 | |
| Boron | mg/L | 2.3 | 2.5 | 5.2 | 113 | 75-125 | |
| Cadmium | mg/L | 0.0072 | 2.5 | 2.4 | 97 | 75-125 | |
| Calcium | mg/L | 737 | 25 | 893 | 623 | 75-125 | M0 |
| Chromium | mg/L | 0.039 | 2.5 | 2.5 | 98 | 75-125 | |
| Copper | mg/L | 0.17 | 2.5 | 2.8 | 103 | 75-125 | |
| Iron | mg/L | ND | 25 | 24.4 | 98 | 75-125 | |
| Lead | mg/L | ND | 2.5 | 2.3 | 94 | 75-125 | |
| Magnesium | mg/L | 16.5 | 25 | 40.7 | 97 | 75-125 | |
| Manganese | mg/L | 2.0 | 2.5 | 4.5 | 100 | 75-125 | |
| Molybdenum | mg/L | ND | 2.5 | 2.6 | 103 | 75-125 | |
| Nickel | mg/L | 0.13 | 2.5 | 2.5 | 95 | 75-125 | |
| Potassium | mg/L | ND | 25 | 52.0 | 195 | 75-125 | M0 |
| Selenium | mg/L | ND | 2.5 | 2.9 | 116 | 75-125 | |
| Silver | mg/L | ND | 1.2 | 1.3 | 106 | 75-125 | |
| Sodium | mg/L | 1190 | 25 | 1430 | 944 | 75-125 | M0 |
| Zinc | mg/L | 0.94 | 2.5 | 3.6 | 108 | 75-125 | |

SAMPLE DUPLICATE: 342865

| Parameter | Units | 9253913007 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | ND | | |
| Barium | mg/L | 0.81 | 0.76 | 7 | |
| Boron | mg/L | 0.16 | 0.14 | 13 | |
| Cadmium | mg/L | ND | ND | | |
| Calcium | mg/L | 35.1 | 32.9 | 6 | |
| Chromium | mg/L | ND | .0021J | | |
| Copper | mg/L | ND | .013J | | |
| Iron | mg/L | 11.3 | 10.6 | 7 | |
| Lead | mg/L | ND | ND | | |
| Magnesium | mg/L | 17.7 | 16.6 | 7 | |
| Manganese | mg/L | 2.3 | 2.2 | 6 | |
| Molybdenum | mg/L | ND | ND | | |
| Nickel | mg/L | 0.031 | 0.029 | 9 | |
| Potassium | mg/L | ND | 4.5J | | |
| Selenium | mg/L | ND | ND | | |
| Silver | mg/L | ND | .0018J | | |
| Sodium | mg/L | 655 | 634 | 3 | |
| Zinc | mg/L | ND | .015J | | |



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## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

QC Batch: MERP/2400
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 9253712001

METHOD BLANK: 340474 Matrix: Solid
Associated Lab Samples: 9253712001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 09/28/09 10:37 | |

LABORATORY CONTROL SAMPLE: 340475

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.068 | 102 | 80-120 | |

MATRIX SPIKE SAMPLE: 340476

| Parameter | Units | 9253511001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | ND | .047 | 0.0051 | 7 | 75-125 | M0 |

SAMPLE DUPLICATE: 340477

| Parameter | Units | 9253511002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.013 ug/g | .0021J | | |



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(704)875-9092

## QUALITY CONTROL DATA

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

QC Batch: PMST/2742
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9253712001

SAMPLE DUPLICATE: 342090

| Parameter | Units | 9253712001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 34.1 | 33.8 | 1 | |

SAMPLE DUPLICATE: 342091

| Parameter | Units | 9253632017 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 12.9 | 13.1 | 2 | |



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# QUALIFIERS

Project: WWT FILTER CAKE 09/23
Pace Project No.: 9253712

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## ANALYTE QUALIFIERS

| | |
|---|---|
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits. |
| L1 | Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| R1 | RPD value was outside control limits. |
| Z2 | Analyte present in the associated method blank above the detection limit. |



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**Appendix H**

Gypsum Analyses
Questions 7 and 8

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January 24, 2006

Ms. Diane Elledge
Progress Energy
200 CP&L Drive
CT Site
Arden, NC 28704

RE: Lab Project Number: 92111285
Client Project ID: Gypsum

Dear Ms. Elledge:

Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 92111285
Client Project ID: Gypsum

Solid results are reported on a dry weight basis

Lab Sample No: 926535915 Project Sample Number: 92111285-001 Date Collected: 01/12/06 12:39
Client Sample ID: 01 GYPSUM Matrix: Soil Date Received: 01/12/06 16:17

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | | |
| Trace ICP Metals, TCLP Leach. | Method: EPA 6010 | | | | | | | |
| Date Digested | 01/14/06 07:30 | | | 01/14/06 07:30 | | | | |
| Trace ICP Metals, TCLP Leach. | Prep/Method: EPA 3010 / EPA 6010 | | | | | | | |
| Arsenic | ND | mg/l | 0.025 | 01/19/06 09:57 | ALV | 7440-38-2 | | |
| Barium | 0.035 | mg/l | 0.025 | 01/19/06 09:57 | ALV | 7440-39-3 | | |
| Boron | 0.41 | mg/l | 0.050 | 01/19/06 09:57 | ALV | 7440-42-8 | | |
| Cadmium | ND | mg/l | 0.0050 | 01/19/06 09:57 | ALV | 7440-43-9 | | |
| Calcium | 820 | mg/l | 0.50 | 01/19/06 09:57 | ALV | 7440-70-2 | | |
| Chromium | ND | mg/l | 0.010 | 01/19/06 09:57 | ALV | 7440-47-3 | | |
| Copper | 0.021 | mg/l | 0.010 | 01/19/06 09:57 | ALV | 7440-50-8 | | |
| Iron | ND | mg/l | 0.25 | 01/19/06 09:57 | ALV | 7439-89-6 | | |
| Lead | ND | mg/l | 0.025 | 01/19/06 09:57 | ALV | 7439-92-1 | | |
| Magnesium | 6.4 | mg/l | 0.50 | 01/19/06 09:57 | ALV | 7439-95-4 | | |
| Manganese | 0.18 | mg/l | 0.025 | 01/19/06 09:57 | ALV | 7439-96-5 | | |
| Molybdenum | ND | mg/l | 0.025 | 01/19/06 09:57 | ALV | 7439-98-7 | | |
| Nickel | ND | mg/l | 0.025 | 01/19/06 09:57 | ALV | 7440-02-0 | | |
| Potassium | ND | mg/l | 5.0 | 01/19/06 09:57 | ALV | 7440-09-7 | | |
| Selenium | 0.085 | mg/l | 0.025 | 01/19/06 09:57 | ALV | 7782-49-2 | | |
| Silver | ND | mg/l | 0.010 | 01/19/06 09:57 | ALV | 7440-22-4 | | |
| Sodium | 3700 | mg/l | 5.0 | 01/19/06 09:57 | ALV | 7440-23-5 | | |
| Zinc | 0.15 | mg/l | 0.050 | 01/19/06 09:57 | ALV | 7440-66-6 | | |
| Date Digested | 01/18/06 08:45 | | | 01/18/06 08:45 | | | | |
| Metals, Trace ICP | Prep/Method: EPA 3050 / EPA 6010 | | | | | | | |
| Arsenic | 1.1 | mg/kg | 0.60 | 01/14/06 22:50 | JDA1 | 7440-38-2 | | |
| Barium | 7.8 | mg/kg | 0.60 | 01/14/06 22:50 | JDA1 | 7440-39-3 | | |
| Boron | 15. | mg/kg | 1.2 | 01/14/06 22:50 | JDA1 | 7440-42-8 | | |
| Cadmium | ND | mg/kg | 0.12 | 01/14/06 22:50 | JDA1 | 7440-43-9 | | |
| Calcium | 160000 | mg/kg | 12. | 01/14/06 22:50 | JDA1 | 7440-70-2 | | |
| Chromium | 3.8 | mg/kg | 0.24 | 01/14/06 22:50 | JDA1 | 7440-47-3 | | |
| Copper | 3.6 | mg/kg | 0.24 | 01/14/06 22:50 | JDA1 | 7440-50-8 | | |
| Iron | 1400 | mg/kg | 6.0 | 01/14/06 22:50 | JDA1 | 7439-89-6 | | |
| Lead | ND | mg/kg | 0.60 | 01/14/06 22:50 | JDA1 | 7439-92-1 | | |
| Magnesium | 400 | mg/kg | 12. | 01/14/06 22:50 | JDA1 | 7439-95-4 | | |
| Manganese | 120 | mg/kg | 0.60 | 01/14/06 22:50 | JDA1 | 7439-96-5 | | |
| Molybdenum | 0.65 | mg/kg | 0.60 | 01/14/06 22:50 | JDA1 | 7439-98-7 | | |



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Lab Project Number: 92111285
Client Project ID: Gypsum

Lab Sample No: 926535915 Project Sample Number: 92111285-001 Date Collected: 01/12/06 12:39
Client Sample ID: 01 GYPSUM Matrix: Soil Date Received: 01/12/06 16:17

| Parameters | Results | Units | Report Limit | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|
| Nickel | 2.0 | mg/kg | 0.60 | 01/14/06 22:50 | JDA1 | 7440-02-0 | | |
| Potassium | 560 | mg/kg | 120 | 01/14/06 22:50 | JDA1 | 7440-09-7 | | |
| Selenium | 21. | mg/kg | 0.60 | 01/14/06 22:50 | JDA1 | 7782-49-2 | | |
| Silver | ND | mg/kg | 0.24 | 01/14/06 22:50 | JDA1 | 7440-22-4 | | |
| Sodium | ND | mg/kg | 120 | 01/14/06 22:50 | JDA1 | 7440-23-5 | | |
| Zinc | 8.8 | mg/kg | 1.2 | 01/14/06 22:50 | JDA1 | 7440-66-6 | | |
| Date Digested | 01/14/06 09:05 | | | 01/14/06 09:05 | | | | |
| Mercury, CVAAS, TCLP Leachate | Method: EPA 7470 | | | | | | | |
| Mercury | ND | mg/l | 0.00020 | 01/17/06 10:55 | ALV | 7439-97-6 | | |
| Mercury, CVAAS, in Soil | Method: EPA 7471 | | | | | | | |
| Mercury | 0.012 | mg/kg | 0.0059 | 01/17/06 11:46 | ALV | 7439-97-6 | | |
| **Wet Chemistry** | | | | | | | | |
| Percent Moisture | Method: % Moisture | | | | | | | |
| Percent Moisture | 18.5 | % | | 01/18/06 11:05 | KBM | | | |
| Phosphorus, Total, Soil | Method: EPA 365.2 | | | | | | | |
| Phosphorus | 181. | mg/kg | 55.8 | 01/19/06 23:05 | ARH | 7723-14-0 | | |
| Sulfate, Total, Soil | Method: EPA 375.4 Modified | | | | | | | |
| Sulfate | 160000 | mg/kg | 4200 | 01/20/06 18:46 | ARH | | | |



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Lab Project Number: 92111285
Client Project ID: Gypsum

---

**PARAMETER FOOTNOTES**

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

| | |
|---|---|
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |



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# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

---

QC Batch: 147358 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: Mercury, CVAAS, in Soil
Associated Lab Samples: 926535915

---

METHOD BLANK: 926543778
Associated Lab Samples: 926535915

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | |

---

LABORATORY CONTROL SAMPLE: 926543786

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.0667 | 0.0667 | 100 | |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926543794 926543802

| Parameter | Units | 926532953 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.01489 | 0.0804 | 0.0791 | 0.0788 | 80 | 80 | 0 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

---

QC Batch: 147360 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 926535915

---

METHOD BLANK: 926543851
Associated Lab Samples: 926535915

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Mercury | mg/l | ND | 0.0002 | |

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LABORATORY CONTROL SAMPLE: 926543869

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.0025 | 0.0024 | 96 | |

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926543877 926543885

| Parameter | Units | 926535915 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/l | 0.00006 | 0.0025 | 0.0032 | 0.0031 | 126 | 123 | 2 | 1 |



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# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

---

QC Batch: 147331 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: Metals, Trace ICP
Associated Lab Samples: 926535915

---

METHOD BLANK: 926542911
Associated Lab Samples: 926535915

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | |
| Barium | mg/kg | ND | 0.50 | |
| Boron | mg/kg | ND | 1.0 | |
| Cadmium | mg/kg | ND | 0.10 | |
| Calcium | mg/kg | ND | 10. | |
| Chromium | mg/kg | ND | 0.20 | |
| Copper | mg/kg | ND | 0.20 | |
| Iron | mg/kg | ND | 5.0 | |
| Lead | mg/kg | ND | 0.50 | |
| Magnesium | mg/kg | ND | 10. | |
| Manganese | mg/kg | ND | 0.50 | |
| Molybdenum | mg/kg | ND | 0.50 | |
| Nickel | mg/kg | ND | 0.50 | |
| Potassium | mg/kg | ND | 100 | |
| Selenium | mg/kg | ND | 0.50 | |
| Silver | mg/kg | ND | 0.20 | |
| Sodium | mg/kg | ND | 100 | |
| Zinc | mg/kg | ND | 1.0 | |

---

LABORATORY CONTROL SAMPLE: 926542929

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 50.00 | 53.50 | 107 | |
| Barium | mg/kg | 50.00 | 51.50 | 103 | |
| Boron | mg/kg | 50.00 | 53.00 | 106 | |
| Cadmium | mg/kg | 50.00 | 53.80 | 108 | |
| Calcium | mg/kg | 500.00 | 577.0 | 115 | |
| Chromium | mg/kg | 50.00 | 54.80 | 110 | |
| Copper | mg/kg | 50.00 | 52.00 | 104 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

LABORATORY CONTROL SAMPLE: 926542929

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/kg | 500.00 | 562.0 | 112 | |
| Lead | mg/kg | 50.00 | 52.70 | 105 | |
| Magnesium | mg/kg | 500.00 | 549.0 | 110 | |
| Manganese | mg/kg | 50.00 | 53.50 | 107 | |
| Molybdenum | mg/kg | 50.00 | 55.40 | 111 | |
| Nickel | mg/kg | 50.00 | 53.10 | 106 | |
| Potassium | mg/kg | 500.00 | 497.0 | 99 | |
| Selenium | mg/kg | 50.00 | 52.20 | 104 | |
| Silver | mg/kg | 25.00 | 26.60 | 106 | |
| Sodium | mg/kg | 500.00 | 505.0 | 101 | |
| Zinc | mg/kg | 50.00 | 54.00 | 108 | |

MATRIX SPIKE: 926542937

| Parameter | Units | 926532953 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 5.678 | 54.81 | 67.20 | 112 | |
| Barium | mg/kg | 27.19 | 54.81 | 106.8 | 145 | 1 |
| Boron | mg/kg | 1.283 | 54.81 | 60.07 | 107 | |
| Cadmium | mg/kg | 0 | 54.81 | 55.58 | 101 | |
| Calcium | mg/kg | 885.7 | 548.10 | 2302 | 258 | |
| Chromium | mg/kg | 8.671 | 54.81 | 71.58 | 115 | |
| Copper | mg/kg | 119.5 | 54.81 | 249.9 | 238 | 1 |
| Iron | mg/kg | 17210 | 548.10 | 25650 | 1540 | |
| Lead | mg/kg | 42.20 | 54.81 | 133.7 | 167 | 1 |
| Magnesium | mg/kg | 103.6 | 548.10 | 768.4 | 121 | |
| Manganese | mg/kg | 231.3 | 54.81 | 365.0 | 244 | 1 |
| Molybdenum | mg/kg | 1.370 | 54.81 | 61.94 | 110 | |
| Nickel | mg/kg | 11.51 | 54.81 | 73.99 | 114 | |
| Potassium | mg/kg | 180.9 | 548.10 | 879.2 | 127 | 1 |
| Selenium | mg/kg | 0.4736 | 54.81 | 57.33 | 104 | |
| Silver | mg/kg | 0.05963 | 27.41 | 29.82 | 109 | |
| Sodium | mg/kg | 81.56 | 548.10 | 752.0 | 122 | |
| Zinc | mg/kg | 164.4 | 54.81 | 342.0 | 324 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

SAMPLE DUPLICATE: 926542945

| Parameter | Units | 926537952 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/kg | 8.000 | 8.600 | 7 | |
| Barium | mg/kg | 42.00 | 39.00 | 7 | |
| Boron | mg/kg | ND | ND | NC | |
| Cadmium | mg/kg | ND | ND | NC | |
| Calcium | mg/kg | 590.0 | 91.00 | 147 | 2 |
| Chromium | mg/kg | 28.00 | 27.00 | 3 | |
| Copper | mg/kg | 14.00 | 12.00 | 11 | |
| Iron | mg/kg | 50000 | 43000 | 14 | |
| Lead | mg/kg | 10.00 | 11.00 | 7 | |
| Magnesium | mg/kg | 510.0 | 450.0 | 14 | |
| Manganese | mg/kg | 8.800 | 19.00 | 72 | 2 |
| Molybdenum | mg/kg | ND | ND | NC | |
| Nickel | mg/kg | 1.600 | 3.300 | 70 | 2 |
| Potassium | mg/kg | 240.0 | 330.0 | 34 | 2 |
| Selenium | mg/kg | ND | ND | NC | |
| Silver | mg/kg | ND | ND | NC | |
| Sodium | mg/kg | 230.0 | 180.0 | 27 | 2 |
| Zinc | mg/kg | 8.100 | 9.600 | 17 | |



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NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

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**Pace Analytical Services, Inc.**
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

---

QC Batch: 147466 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Trace ICP Metals, TCLP Leach.
Associated Lab Samples: 926535915

---

METHOD BLANK: 926549494
Associated Lab Samples: 926535915

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Arsenic | mg/l | ND | 0.025 | |
| Barium | mg/l | ND | 0.025 | |
| Boron | mg/l | ND | 0.050 | |
| Cadmium | mg/l | ND | 0.0050 | |
| Calcium | mg/l | ND | 0.50 | |
| Chromium | mg/l | ND | 0.010 | |
| Copper | mg/l | ND | 0.010 | |
| Iron | mg/l | ND | 0.25 | |
| Lead | mg/l | ND | 0.025 | |
| Magnesium | mg/l | ND | 0.50 | |
| Manganese | mg/l | ND | 0.025 | |
| Molybdenum | mg/l | ND | 0.025 | |
| Nickel | mg/l | ND | 0.025 | |
| Potassium | mg/l | ND | 5.0 | |
| Selenium | mg/l | ND | 0.025 | |
| Silver | mg/l | ND | 0.010 | |
| Sodium | mg/l | ND | 5.0 | |
| Zinc | mg/l | ND | 0.050 | |

---

LABORATORY CONTROL SAMPLE: 926549502

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Arsenic | mg/l | 2.500 | 2.445 | 98 | |
| Barium | mg/l | 2.500 | 2.465 | 99 | |
| Boron | mg/l | 2.500 | 2.550 | 102 | |
| Cadmium | mg/l | 2.500 | 2.450 | 98 | |
| Calcium | mg/l | 25.00 | 26.85 | 107 | |
| Chromium | mg/l | 2.500 | 2.525 | 101 | |
| Copper | mg/l | 2.500 | 2.490 | 100 | |



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Fax: 828.252.4618

# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

LABORATORY CONTROL SAMPLE: 926549502

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Iron | mg/l | 25.00 | 25.90 | 104 | |
| Lead | mg/l | 2.500 | 2.460 | 98 | |
| Magnesium | mg/l | 25.00 | 25.75 | 103 | |
| Manganese | mg/l | 2.500 | 2.485 | 99 | |
| Molybdenum | mg/l | 2.500 | 2.585 | 103 | |
| Nickel | mg/l | 2.500 | 2.465 | 99 | |
| Potassium | mg/l | 25.00 | 24.55 | 98 | |
| Selenium | mg/l | 2.500 | 2.435 | 97 | |
| Silver | mg/l | 1.250 | 1.270 | 102 | |
| Sodium | mg/l | 25.00 | 23.70 | 95 | |
| Zinc | mg/l | 2.500 | 2.485 | 99 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926549510 926549528

| Parameter | Units | 926535915 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | RPD | Footnotes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0 | 2.500 | 2.490 | 2.475 | 100 | 99 | 1 | |
| Barium | mg/l | 0.03525 | 2.500 | 2.370 | 2.390 | 93 | 94 | 1 | |
| Boron | mg/l | 0.4100 | 2.500 | 2.990 | 2.990 | 103 | 103 | 0 | |
| Cadmium | mg/l | 0.00061 | 2.500 | 2.310 | 2.300 | 92 | 92 | 0 | |
| Calcium | mg/l | 820.0 | 25.00 | 975.0 | 975.0 | 620 | 620 | 0 | 3,1 |
| Chromium | mg/l | 0.00505 | 2.500 | 2.345 | 2.335 | 94 | 93 | 0 | |
| Copper | mg/l | 0.02145 | 2.500 | 2.490 | 2.510 | 99 | 100 | 1 | |
| Iron | mg/l | 0.02215 | 25.00 | 23.70 | 23.60 | 95 | 94 | 0 | |
| Lead | mg/l | 0 | 2.500 | 2.370 | 2.355 | 95 | 94 | 1 | |
| Magnesium | mg/l | 6.400 | 25.00 | 31.20 | 31.15 | 99 | 99 | 0 | |
| Manganese | mg/l | 0.1820 | 2.500 | 2.525 | 2.520 | 94 | 94 | 0 | |
| Molybdenum | mg/l | 0.00035 | 2.500 | 2.495 | 2.495 | 100 | 100 | 0 | |
| Nickel | mg/l | 0.02250 | 2.500 | 2.275 | 2.270 | 90 | 90 | 0 | |
| Potassium | mg/l | 1.805 | 25.00 | 50.00 | 51.00 | 193 | 197 | 2 | 1,1 |
| Selenium | mg/l | 0.08500 | 2.500 | 2.630 | 2.635 | 102 | 102 | 0 | |
| Silver | mg/l | 0.00093 | 1.250 | 1.255 | 1.260 | 100 | 101 | 0 | |
| Sodium | mg/l | 3730 | 25.00 | 4595 | 4675 | 3460 | 3780 | 2 | 1,1 |
| Zinc | mg/l | 0.1465 | 2.500 | 2.630 | 2.605 | 99 | 98 | 1 | |



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**Pace Analytical Services, Inc.**
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

---

QC Batch: 147488 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 926535915

---

SAMPLE DUPLICATE: 926550385

| Parameter | Units | 926545385 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Percent Moisture | % | 14.50 | 14.30 | 1 | |



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# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

---

QC Batch: 147712 Analysis Method: EPA 365.2
QC Batch Method: EPA 365.2 Analysis Description: Phosphorus, Total, Soil
Associated Lab Samples: 926535915

---

METHOD BLANK: 926560004
Associated Lab Samples: 926535915

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Phosphorus | mg/kg | ND | 10.0 | |

---

LABORATORY CONTROL SAMPLE: 926560012

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 20.00 | 21.32 | 107 | |

---

MATRIX SPIKE: 926560020

| Parameter | Units | 926535915 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Phosphorus | mg/kg | 180.9 | 122.70 | 364.9 | 150 | 1 |

---

SAMPLE DUPLICATE: 926560038

| Parameter | Units | 926520818 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Phosphorus | mg/kg | 1420 | ND | NC | |



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# QUALITY CONTROL DATA

Lab Project Number: 92111285
Client Project ID: Gypsum

---

QC Batch: 147815 Analysis Method: EPA 375.4 Modified
QC Batch Method: EPA 375.4 Modified Analysis Description: Sulfate, Total, Soil
Associated Lab Samples: 926535915

---

METHOD BLANK: 926565367
Associated Lab Samples: 926535915

| Parameter | Units | Blank Result | Reporting Limit | Footnotes |
|---|---|---|---|---|
| Sulfate | mg/kg | 120 | 100 | |

---

LABORATORY CONTROL SAMPLE: 926565375

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 2000.00 | 2038 | 102 | |

---

MATRIX SPIKE: 926565391

| Parameter | Units | 926535915 Result | Spike Conc. | MS Result | MS % Rec | Footnotes |
|---|---|---|---|---|---|---|
| Sulfate | mg/kg | 161200 | 2503.00 | 186000 | 991 | |

---

SAMPLE DUPLICATE: 926565383

| Parameter | Units | 926535915 Result | DUP Result | RPD | Footnotes |
|---|---|---|---|---|---|
| Sulfate | mg/kg | 160000 | 160000 | 0 | |



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Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92111285
Client Project ID: Gypsum

## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|---|---|
| LCS(D) | Laboratory Control Sample (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| DUP | Sample Duplicate |
| ND | Not detected at or above adjusted reporting limit |
| NC | Not Calculable |
| J | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit |
| RPD | Relative Percent Difference |
| [1] | The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| [2] | The calculated RPD was outside QC acceptance limits. |
| [3] | The spike recovery was outside acceptance limits for the MS and/or MSD due to an analyte concentration in the sample at four times greater than the spike concentration. The QC batch was accepted based upon LCS and/or LCSD recoveries within acceptance limits. |



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# PRECISION PETROLEUM LABS, INC.

5915 Star Lane Houston, TX. 77057
Ph. 713-680-9425 Fax: 713-680-9564

## CERTIFICATE OF ANALYSIS



| | |
|---|---|
| COMPANY: | PACE ANALYTICAL |
| INVOICE No.: | 29731 |
| LAB REFERENCE No.: | 2006-04-303 |
| PRODUCT ID: | 926847179 GYPSUM 04-03-2006 |
| DATE RECEIVED: | 04-11-2006 |
| AUTHORIZED BY: | LORRI PATTON |

| PARAMETER | TEST RESULT |
|---|---|
| Chlorides, PPM | 248.1 |
| Gypsum Purity, Wt% (CaSO4, 2H2O) | 94.15 |
| Calcium Sulfite, Wt% | 0.27 |
| SiO2, Wt% | < 0.01 |
| CACO3, Wt% | 19.14 |
| Mg CO3, Wt% | 0.14 |
| FE2O3, Wt% | 0.12 |
| Moisture, Wt% | 23.73 |
| Total Soluble Salts, PPM | 523 |
| PH | 7.77 |
| Fluorine, PPM | 245.6 |
| Bromine, PPM | 131.4 |

PRECISION PETROLEUM LABS, INC.'S RESPONSIBILITY FOR THE ABOVE ANALYSIS, OPINIONS OR INTERPRETATIONS IS LIMITED TO THE INVOICE AMOUNT.

# PRECISION PETROLEUM LABS, INC.

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Ph. 713-680-9425 Fax: 713-680-9564

## CERTIFICATE OF ANALYSIS



COMPANY: PACE ANALYTICAL
INVOICE No.: 29731
LAB REFERENCE No.: 2006-04-303
PRODUCT ID: 926847179 GYPSUM 04-03-2006
DATE RECEIVED: 04-11-2006
AUTHORIZED BY: LORRI PATTON

| TOTAL METAL | TEST METHOD | PREPARATION METHOD | REPORTING LIMIT, PPM | TEST RESULTS, PPM |
|---|---|---|---|---|
| ALUMINUM | EPA-6010B | EPA-3040/3050 | 0.450 | 376.68 |
| ANTIMONY | EPA-6010B | EPA-3040/3050 | 0.330 | BRL |
| ARSENIC | EPA-6010B | EPA-3040/3050 | 0.500 | 1.111 |
| BARIUM | EPA-6010B | EPA-3040/3050 | 0.100 | 6.604 |
| BERYLLIUM | EPA-6010B | EPA-3040/3050 | 0.100 | BRL |
| BORON | EPA-6010B | EPA-3040/3050 | 0.100 | 17.988 |
| CALCIUM | EPA-6010B | EPA-3040/3050 | 0.150 | 159470 |
| CADMIUM | EPA-6010B | EPA-3040/3050 | 0.100 | 0.128 |
| CHROMIUM | EPA-6010B | EPA-3040/3050 | 0.150 | 1.849 |
| COBALT | EPA-6010B | EPA-3040/3050 | 0.180 | 0.368 |
| COPPER | EPA-6010B | EPA-3040/3050 | 0.140 | 6.461 |
| IRON | EPA-6010B | EPA-3040/3050 | 0.210 | 855.34 |
| LEAD | EPA-6010B | EPA-3040/3050 | 0.390 | 0.556 |
| MAGNESIUM | EPA-6010B | EPA-3040/3050 | 0.300 | 175.80 |
| MANGANESE | EPA-6010B | EPA-3040/3050 | 0.270 | 81.386 |
| MERCURY | EPA-6010B | EPA-3040/3050 | 0.170 | BRL |
| MOLYBDENUM | EPA-6010B | EPA-3040/3050 | 0.150 | 1.058 |
| NICKEL | EPA-6010B | EPA-3040/3050 | 0.200 | 1.868 |
| PHOSPHORUS | EPA-6010B | EPA-3040/3050 | 0.750 | 145.60 |
| POTASSIUM | EPA-6010B | EPA-3040/3050 | 1.950 | 438.65 |
| SELENIUM | EPA-6010B | EPA-3040-3050 | 0.630 | 12.554 |
| SILICON | EPA-6010B | EPA-3040/3050 | 0.280 | 6.391 |
| SILVER | EPA-6010B | EPA-3040/3050 | 0.130 | BRL |
| SODIUM | EPA-6010B | EPA-3040/3050 | 1.500 | 245.05 |
| THALLIUM | EPA-6010B | EPA-3040/3050 | 0.450 | BRL |
| TIN | EPA-6010B | EPA-3040/3050 | 0.290 | BRL |
| TITANIUM | EPA-6010B | EPA-3040/3050 | 0.170 | 3.417 |
| VANADIUM | EPA-6010B | EPA-3040/3050 | 0.150 | 0.665 |
| ZINC | EPA-6010B | EPA-3040/3050 | 0.100 | 7.002 |
| GEMANIUM | EPA-6010B | EPA-3040/3050 | 0.100 | BRL |
| LITHIUM | EPA-6010B | EPA-3040/3050 | 0.100 | BRL |
| THORIUM | EPA-6010B | EPA-3040/3050 | 0.100 | BRL |
| URANIUM | EPA-6010B | EPA-3040/3050 | 0.100 | BRL |
| ZIRCONIUM | EPA-6010B | EPA-3040/3050 | 0.100 | BRL |

**BRL: BELOW REPORTING LIMIT**

**PREPARATION METHOD: EPA-3040 FOR ORGANICS, EPA-3050 FOR ALL OTHER SOLID MATRICES.**

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# Appendix I

Asheville Constructed Wetlands Treatment System- O&M Manual
Question 9

Document title

# Asheville Plant Constructed Wetlands Treatment System Operations & Maintenance Manual

Document number:

EVC-ASHC-00022

Applies to: Asheville Fossil Plant - Carolinas

Keywords: environmental; environmental compliance manual-asheville fossil plant

**Legend:**
OPS Operations
ENG Engineering
WMT Work Management
TRN Training
ENV Environmental
FIN Financial
ICT Combustion Turbine
ADM Administrative

| Organizational Applicability | | | | | | | |
|---|---|---|---|---|---|---|---|
| **OPS** | **ENG** | **WMT** | **TRN** | **ENV** | **FIN** | **ICT** | **ADM** |
| | | | | **X** | | | |

## 1.0 PURPOSE

1.1 To provide chemistry technicians with a procedure for actions to be taken to ensure the efficient operation of the constructed wetlands system and to maintain compliance with the NPDES permit.

## 2.0 TERMS AND DEFINITIONS

2.1 CWTS: Constructed Wetland Treatment System to remove heavy metals, particularly selenium and mercury.

2.2 WWTS: Wastewater Treatment System to control pH, chlorides and suspended solids

2.3 NPDES: NPDES Permit NC0000396

2.4 FGD: Flue Gas Desulfurization

2.5 REDOX: Oxidation-reduction potential of the wetland hydrosoil provides information on wetland function and indicates conditions necessary for mercury and selenium removal.

## 3.0 RESPONSIBILITIES

3.1 Chemistry Technician

3.1.1 Ensure compliance with the NPDES permit through the proper maintenance and monitoring of the WWTS and CWTS.

3.1.2 Notify management, environmental specialist and environmental services contact if problems are noted with the CWTS or WWTS.

3.2 Maintenance Unit

3.2.1 Maintain equipment in proper operating condition to ensure compliance with regulatory limits.

3.3 Operations Unit

3.3.1 Operate equipment properly to ensure compliance with regulatory limits.

## 4.0 CONTACTS

4.1 Consultant

John H. Rodgers, Jr.
Professor, Clemson University
P.O. Box 340317, Clemson, SC 29634-0317
(864) 656-0492 office
(864) 656-1034 fax
(864) 650-0210 cell
(864) 656-0886 lab
jrodger@clemson.edu

4.2 Environmental Health and Safety Specialist Contact and Support

Reid Garrett
Progress Energy Carolinas, Inc.
410 S. Wilminton St.
Raleigh, N.C. 27601
(919) 546-5434 (ofc)
(919) 632-4966 (cell)

4.3 Soil Analysis

Lew Hicks
Environmental Chemists, Inc.
6602 Windmill Way
Wilmington, NC 28405
(910) 392-0223 (Lab)
(910) 392-4424 (Fax)

4.4 Plant Tissue Analysis

NCDA&CS Agronomic Services Division, Colleen M. Hudak-Wise, Ph.D., Director

Mailing Address: 1040 Mail Service Center, Raleigh NC 27699-1040
Physical Address: 4300 Reedy Creek Road, Raleigh NC 27607-6465
Phone: (919) 733-2655; FAX: (919) 733-2837

4.5 Aqueous and Soil Analysis
Lorri Patton
Pace Analytical Services, Inc.
2225 Riverside Drive, Woodfin, NC 28804
(828) 254-7176
(828) 252-4618 (fax)

4.6 Wetland Plants
The Wetlands Company
Michael Reilly, President
1785 Southwood Street, Sarasota, Florida 34231
(941) 921-6609
(941) 921-7265 (fax)

4.7 Landscaping, Organic matter addition (mulch), sulfate addition (agricultural gypsum)
Sunset Ridge Landscapes Inc.
27 Griffen Branch Road, Leicester, NC 28748
(828) 712-6622 Danny
(828) 683-6622 Melissa

4.8 Critter Control
9415 Parkton Road, Suite A, Charlotte, NC 28215
Chris Flanagan
(828) 225-8100
(828) 252-2282 (fax)

4.9 Republic Services
Upstate Regional MSW Landfill
Attn: Karma Gleaton
P.O. Box 188
Cross Anchor, SC 29331
(803) 735-3318 (ofc)
(803) 803-714-0964 (fax)

5.0 Pascon Container Services
Attn: Eddie Puryear
2111 Two Notch Road
Lexington, SC 29072
(803) 359-9334 (ofc)
(803) 359-0628 (fax)

## 5.0 PRECAUTIONS AND LIMITATIONS

5.1 Appropriate PPE should be worn when performing work in the CWTS or WWTS.

## 6.0 PREREQUISITES

NONE

## 7.0 MATERIAL AND SPECIAL EQUIPMENT

7.1 SRB-BART Test kit
HACH, 2207 Collections Center Drive, Chicago, IL 60693
1-800-227-4224

7.2 HAB-BART Test kit
HACH, 2207 Collections Center Drive, Chicago, IL 60693
1-800-227-4224

7.3 IRB-BART Test kit
HACH, 2207 Collections Center Drive, Chicago, IL 60693
1-800-227-4224

7.4 Sodium Chloride, <0.9% Sterile
Fisher Scientific #AB4888-50-15

7.5 Shoulder-length Chemical Impervious Gloves
Lab Safety Supply

7.6 BART-soft Software v5

7.7 Redox and Reference Probes
John H. Rodgers, P.O. Box 340317, Clemson, SC 29634-0317
1-864-656-0492 (office)

7.8 Voltmeter

7.9 Portable pH meter with integral temperature indication

7.10 Chest Waders with Lug Sole, Hodgman, neoprene or breathable depending on the weather.
www.kodiakoutback.com

7.11 I-Chem 250 ml sterile glass jars with screw-type lids.

7.12 Hex Boats, plastic

7.13 Transfer pipets, plastic, disposable

7.14 Spatulas, plastic, disposable

7.15 Pipetter, 1-10 ml dispensing range, with plastic tips

7.16 Bags, Ziploc , Freezer 10.5” X 11.25”

7.17 Towels, paper, household

7.18 Six Small ½ gallon buckets with carrying handles

## 8.0 PROCEDURE

### 8.1 FGD Blowdown Wastewater Characteristics for WWTS

8.1.1 Monitoring requirements for the following characteristics for the FGD blowdown from scrubber to wastewater treatment facility (*inlet desaturization tank*) are as follows:

| PARAMETER | DESIGN VALUE | MONITORING FREQUENCY | APPENDICES |
|---|---|---|---|
| pH (standard units) | 5.2 to 5.6 | weekly | Appendix A-1 |
| Temperature (F) | 127 | weekly | Appendix A-2 |
| Chloride (ppm) | 20,000 | weekly | Appendix A-3 |
| Alkalinity (ppm) | >15-20 | weekly | Appendix A-4 |
| FGD Blowdown Wastewater Flow Rate (gpm) | 73 | weekly | Appendix A-5 |
| Total Suspended Solids (TSS) (ppm) | 26,000 | monthly | Appendix A-6 |

### 8.2 Pretreatment System Performance Requirements

8.2.1 Monitoring requirements for the following characteristics for the FGD effluent from WWTS to CWTS (*equalization basin*) are as follows:

| PARAMETER | DESIGN VALUE | MONITORING FREQUENCY | APPENDICES |
|---|---|---|---|
| pH (units) | 6.5 to 8 | Weekly | Appendix B-1 |
| Temperature (F) | <104 | Weekly | Appendix B-2 |

8.2.2 Task Outline for Operation and Maintenance of WWTS:

1. Clean pH probes weekly by brushing. Use mild detergent if oily or excessively dirty.

2. Check pH of clarifier and effluent tank with portable meter and compare to tank pH probes (2 probes per tank). IF accuracy is >0.5 then calibrate probes. Recheck pH/temperature. If pH deviation remains >0.5; replace probe and recalibrate.

3. Sample clarifier effluent, FGD blowdown and clarifier recycle sludge for TSS content monthly.
4. Observe clarifier tank frequently for signs of inadequate settling, i.e. pinflock in the top of clarifier, excessive solids in the recycle sludge.

**IF** the temperature or chloride levels are elevated in the equalization basin increase lake water flow rate and/or decrease FGD waste water flow.

**IF** the pH readings are above or below normal limits:

1. Verify that the pH probes are clean and calibrated.

2. Verify that the caustic feed rate is normal.

**IF** the pH readings are above normal limits:

1. Verify that the pH probes are clean and calibrated.

2. Stop caustic feed pump until pH recovers or as last resort, initiate acid feed (HCl) pump until pH is within WWTS limits.

**IF** the TSS appears to be above normal limits verify that the polymer feed pump is functioning properly and the clarifier scrapers are functioning properly.

## 8.3 Equalization Basin Constructed Wetland Requirements

### 8.3.1 Task outline for the operation and maintenance of the equalization basin:

| PARAMETER | DESIGN VALUE | MONITORING FREQUENCY | APPENDICES |
|---|---|---|---|
| TSS (ppm) | 204 | weekly | Appendix C-1 |
| Chloride (ppm) | <4000 | weekly | Appendix C-2 |
| Mercury (ug/l) | none | weekly | Appendix C-3 |
| Selenium (ppm) | none | monthly | Appendix C-4 |

## 8.4 Bulrush Constructed Wetland Requirements

### 8.4.1 Monitor that the bulrush constructed wetland cells (1A/B, 2 A/B) meet the following requirements:

| PARAMETER | DESIGN VALUE | MONITORING FREQUENCY | APPENDICES |
|---|---|---|---|
| pH (units) | 4 to 9 | Bi-weekly | Appendix D-1 |
| Redox Potential (mV) | -250 or lower | Bi-weekly | Appendix D-2 |
| Water Depth (ft) | 1.5 | Bi-weekly | Appendix D-3 |
| Temperature | <104°F | Bi-weekly | Appendix D-4 |
| Sulfate (aqueous) | | Monthly | Appendix D-5 |

8.4.2 **IF** the pH limits are exceeded:

1. Verify the caustic/acid feed rate of the WWTS and adjust as necessary.

2. Add lime to increase the pH.

8.4.3 **IF** the temperature is exceeded, increase lake water flow rate and/or decrease FGD waste water flow rate.

8.4.4 “Redox” is a term used to denote oxidation-reduction. Redox potential is measured to indicate the propensity for certain reactions to occur in the wetlands hydrosoil. Multiple measurements of redox potential are required to achieve an accurate picture of the general condition in a wetland cell, therefore there are three redox probes per cell. Monitor Redox by attaching the positive voltmeter lead (red) to the positive redox probe (white wire) and the negative voltmeter lead (black) to the negative reference probe (black wire). Set voltmeter on 2 mV and record voltmeter reading. Add a correction factor of 244 which is based on operating temperature and the alloy used in the probes.

8.4.5 **IF** the Redox limits are outside specified limits:

1. Check the water depth and adjust to specified level if necessary.

2. Verify that the redox probe is inserted approximately 3 inches in the hydrosoil and is NOT impacted by a root zone.

3. Ensure that that redox probe is functioning properly as follows:

   a. Attach the positive voltmeter lead (red) to the positive redox probe (white wire) and the negative voltmeter lead (black) to the negative reference probe (black wire). Set voltmeter on 2 mV and record voltmeter reading.

   b. Leave the positive voltmeter lead (red) attached to the positive redox probe in question. Attach the negative voltmeter lead (black) to the other two negative reference electrodes (black) and obtain a reading from each.

   c. IF the reading is similar the redox probe may need to be replaced.

   d. IF the reading is different the reference probe may need to be replaced.

4. Monitor Mercury and Selenium levels in the cell to ensure removal efficiency until redox levels return to normal. IF redox levels do not return to normal and selenium and mercury removal efficiency is affected contact:

   a. Consultant or EHHS Support

   b. Plant Management

   c. Plant Environmental Specialist : Laurie Moorhead(Work) 8-350-5240, (Mobile) 828-280-2452

   d. Corporate EHS: Shannon Langley (work) 919-546-2439, (mobile) 919-219-0905

8.4.6 Collect an aqueous sulfate sample as follows:

1. Collect a separate sample from the inflow of cells 1A and 2A.

2. Collect a sample from the outflow of cells 1A and 2A.

3. Collect a sample from the outflow of cells 1B and 2B.

4. Compare the sulfate concentration for the inflow to outflow of the cells (assume sulfate concentration of inflow of 1B and 2B is equal to the outflow of cells 1A and 2A).

5. IF the sulfate concentration level does not reduce from inflow to outflow of the cells contact (more sulfate addition may be required):

   a. Consultant or EHHS Support

   b. Plant Management

   c. Plant Environmental Specialist : Laurie Moorhead (Work) 8-350-5240, (Mobile) 828-280-2452

   d. Corporate EHS: Shannon Langley (work) 919-546-2439, (mobile) 919-219-0905

8.4.7 There are three Biological Activity Reaction Tests which detect the presence of specific bacteria in the hydrosoil: Sulfate Reducing Bacteria (SRB), Iron Related Bacteria (IRB), and Heterotrophic Aerobic Bacteria (HAB). Using shoulder-length, chemical impervious gloves, obtain a representative soil sample from each of the wetland cells and place in a sterile 250 ml glass jar with a screw-type lid. Place samples immediately on ice to preserve the microbes. After all cells are sampled, without delay, perform the following three BART tests on each to monitor microbial activity:

1. The **SRB-BART** is used to determine the presence of sulfate reducing bacteria. Sulfur is used to reduce the mercury present in the waste water to HgS (cinnabar). The amount of sulfate reducing bacteria is an indication of the amount of sulfur present in the hydrosoil. To conduct the SRB-BART Test for SRB in soil:

    a. Label the outer tube with the sample ID.

    b. Remove the inner tube from the outer tube and set the outer tube aside. Remove the cap from the inner tube and place with the inside facing upwards. The inside surface is sterile and should not be contaminated.

    c. Roll the ball out of the tube into the cap.

    d. Add 0.1 grams of freshly collected soil onto the floor of the tube using a clean spatula.

    e. Add 15 mL of sterile saline (<0.9% Sodium Chloride) to the tube.

    f. Gently roll ball from cap back into tube and replace cap onto tube.

    g. Replace the inner tube back inside the labeled outer tube.

    h. Place the BART tube away from direct sunlight and allow to incubate at room temperature (21-25°C).

    i. Visually observe after 24 hours and record any growths/color changes using the codes in the BART guidelines included with the test kit. It is possible to have more than one reaction within the same day so be sure to record all reactions that occur.

    j. Continue to observe and record changes for 10 days.

    k. Dispose of BART test tubes by folding 6 household paper towels in half to make a “v” shape fold and placing in the bottom of a 10.5” X 11.25” Ziploc plastic freezer bag. Making sure that the cap on the outer tube is tight, sit the testers upright in the “v” fold and place in a lab dedicated microwave oven. For up to 9 testers microwave for 50 seconds and for 9-15 testers microwave for 65 seconds. This amount of heat will be sufficient to pasteurize the contents. After the heat treatment the sealed bag can be disposed with domestic garbage.

    l. Use BART-Soft Software for interpretation of results. Multiply the population calculated by the software by 10 (per soil sampling guidelines).

m. The relationship between the time lag (days) of the reaction and the population of SRB is determined by:

Aggressivity (days til reaction)

| | | Very | Significant | Moderate | Not |
|---|---|---|---|---|---|
| BB | Black Base | <1 | 2-3 | 4-8 | >8 |
| BT | Black Ball | <1 | 2-4 | 5-8 | >8 |

BB - blackened base (anaerobic)
BT - blackening around the ball (aerobic)

Population (as determined by BART-Soft):

a. Very aggressive (normal level, continue quarterly testing).

b. Aggressive (normal level, continue quarterly testing).

c. Moderately aggressive (treatment may not be required but vigilance through monthly testing should be practiced).

d. Not aggressive (treatment may be needed). Contact:

i. Consultant or EHHS Support

ii. Plant Management

iii. Environmental Specialist: Laurie Moorhead (Work) 8-350-5240, (Mobile) 828-280-2452

iv. Corporate EHS: Shannon Langley (work) 919-546-2439, (mobile) 919-219-0905

**IF** test fails add agricultural gypsum (sulfur source). Contact Consultant and/or EHSS Support to determine administrable quantity. Repeat SRB-BART test 2 weeks after adding sulfur and continue to monitor mercury removal levels.

The SRB-BART test can also display a non-SRB reaction when a cloudy gel (CG) forms. This is indicative of the presence of anaerobic bacteria (nor SRB). The aggressivity for these bacteria can be determined as follows:

Aggressivity

| | | Very | Sign. | Moderate | Not |
|---|---|---|---|---|---|
| CG | Cloudy Growth | <0.5 | 0.5-2 | 3-4 | >4 |

2. The **IRB-BART** test detects the presence of iron reducing bacteria present in the hydrosoil. The zero-valent iron present in the system is used for iron selenide formation and coprecipitation of available mercury ions. The amount of iron reducing bacteria is an indication of the amount of iron present in the hydrosoil. To conduct the IRB-BART test for IRB in soil:

   a. Label the outer tube with the sample ID.

   b. Remove the inner tube from the outer tube and set the outer tube aside. Remove the cap from the inner tube and place with the inside facing upwards. The inside surface is sterile and should not be contaminated.

   c. Roll the ball out of the tube into the cap.

   d. Add 0.1 grams of freshly collected soil onto the floor of the tube using a clean spatula.

   e. Add 15 mL of sterile saline (<.9% Sodium Chloride) to the tube.

   f. Gently roll ball from cap back into tube and replace cap onto tube.

   g. Replace the inner tube back inside the labeled outer tube.

   h. Place the BART tube away from direct sunlight and allow to incubate at room temperature (21-25°C).

   i. Visually observe after 24 hours and record any growths/color changes using the codes in the BART guidelines included with the test kit. It is possible to have more than one reaction within the same day so be sure to record all reactions that occur.

   j. Continue to observe and record changes for 10 days.

   k. Dispose of BART test tubes by folding 6 household paper towels in half to make a “v” shape fold and placing in the bottom of a 10.5” X 11.25” Ziploc plastic freezer bag. Making sure that the cap on the outer tube is tight, sit the testers upright in the “v” fold and place in a lab dedicated microwave oven. For up to 9 testers microwave for 50 seconds and for 9-15 testers microwave for 65 seconds. This amount of heat will be sufficient to pasteurize the contents. After the heat treatment the sealed bag can be disposed with domestic garbage.

   l. Use BART-Soft Software for interpretation of results. Multiply the population calculated by the software by 10 (per soil sampling guidelines).

m. The relationship between the time lag (days) of the reaction and the population of IRB is determined by:

| | | Aggressivity | | | |
|---|---|---|---|---|---|
| | | Very | Sign | Moderate | Not |
| BC | Brown Cloudy | <2 | 3 | 4-8 | >8 |
| BG | Brown Gel | <1 | 2-6 | 7-8 | >8 |
| BL | Blackened Liquid | <2 | 3-6 | 7-8 | >8 |
| BR | Brown Ring | <1 | 2 | 3-6 | >6 |
| CL | Cloudy Growth | <0.5 | 0.5-2 | 3-4 | >4 |
| FO | Foam | <0.5 | 0.5-1 | 2-4 | >4 |
| GC | Green Cloudy | <1 | 2-4 | 5-8 | >8 |
| RC | Red Cloudy | <1 | 2-3 | 4-8 | >8 |

Population (as determined by BART-Soft):

a. Very aggressive (normal level, continue quarterly testing).

b. Aggressive (normal level, continue quarterly testing).

c. Moderately aggressive (treatment may not be required but vigilance through monthly testing should be practiced).

d. Not aggressive (treatment may be needed). Contact:

i. Consultant or EHHS Support

ii. Plant Management

iii. Environmental Specialist: Laurie Moorhead (Work) 8-350-5240, (Mobile) 828-280-2452

iv. Corporate EHS: Shannon Langley (work) 919-546-2439, (mobile) 919-219-0905

**IF** test fails add zero-valent iron (Fe0). Contact Consultant and/or EHSS Support to determine administrable quantity. Continue to monitor IRB and selenium removal levels.

3. The **HAB-BART** test detects the presence of heterotrophic aerobic bacteria which are present in oxygen rich environments. When these bacteria are present and active, the blue dye in the biodetector becomes bleached (colorless) either from the bottom up or the top down. The HAB-BART tester offers some unique characteristics that are the results of the saturated oxygen (oxidative) regime. To conduct the HAB-BART test for HAB in soil, two HAB-BART testing kits are needed per sample.

a. Label the outer tube with the sample ID.

b. Remove the inner test tube from the outer tube and set the outer tube aside. Remove the cap from the inner tester and place with the inside facing upwards. The inside surface is sterile and should not be contaminated.

c. Roll the ball out of the tester into the cap.

d. Add 0.1 grams of freshly collected soil onto the floor of the tester using a clean spatula.

e. Using a second HAB-BART tube, remove the inner tube from the outer tube and discard the outer tube. Remove the cap from the inner tube and place with the inside facing upwards. The inside surface is sterile and should not be contaminated.

f. Roll the ball out of the tube into the cap.

g. Pipette 17.5 mL of sterile water (<.9% Sodium Chloride) into the tube. Place cap back on tube.

h. Turn tube upside down for 30 seconds so that the dried methylene blue in the cap dissolves into the sterile water.

i. Rotate tube 5 times by rotating wrist, allowing ball to travel the full length of the tube 10 times. This causes the air from the headspace atmosphere to be dispersed into the liquid to reach saturation.

j. Use a pipette to transfer 15 mL of oxidized methylene blue from the second tube to the tube containing the soil sample. Discard the empty second tube and ball.

k. Gently roll ball from screw cap back into tube and replace cap onto tube.

l. Replace the tester back inside the labeled outer tube.

m. Incubate at room temperature (21-25°C).

n. Visually observe after 24 hours and record any growths/color changes using the codes in the BART guidelines included with the test kit. It is possible to have more than one reaction within the same day so be sure to record all reactions that occur.

o. Continue to observe and record changes for 10 days.

p. Dispose of BART test tubes by folding 6 household paper towels in half to make a “v” shape fold and placing in the bottom of a 10.5” X 11.25” Ziploc plastic freezer bag. Making sure that the cap on the outer tube is tight, sit the testers upright in the “v” fold and place in a lab dedicated microwave oven. For up to 9 testers microwave for 50 seconds and for 9-15 testers microwave for 65 seconds. This amount of heat will be sufficient to pasteurize the contents. After the heat treatment the sealed bag can be disposed with domestic garbage.

q. Use BART-Soft Software for interpretation of results. Multiply the population calculated by the software by 10 (per soil sampling guidelines).

r. The relationship between the time lag (days) of the reaction and the population of SRB is determined by:

Aggressivity

| | | Very | Sign. | Moderate | Not |
|---|---|---|---|---|---|
| UP | Bleached up | <0.5 | 1-2 | 3-4 | >4 |
| DO | Bleached down | <1 | 2-3 | 4-6 | >6 |

UP - bleaching moves upward from base (aerobic)
DO - bleaching moves downward from ball (anaerobic)

Population (as determined by BART-Soft):

a. Very aggressive (normal level, continue quarterly testing)

b. Aggressive (normal level, continue quarterly testing)

c. Moderately aggressive (treatment may not be required but vigilance through monthly testing should be practiced)

d. Not aggressive (treatment may be needed) Contact:

i. Consultant or EHHS Support

ii. Plant Management

iii. Environmental Specialist: Laurie Moorhead (Work) 8-350-5240, (Mobile) 828-280-2452

iv. Corporate EHS: Shannon Langley (work) 919-546-2439, (mobile) 919-219-0905

## 8.5 Cattail Constructed Wetland Cell Requirements

8.5.1 Ensure that the cattail constructed wetland cells (4A/B) meet the following requirements:

| PARAMETER | DESIGN VALUE | MONITORING FREQUENCY | APPENDICES |
|---|---|---|---|
| pH (units) | 5.5 to 8 | Bi-weekly | Appendix E-1 |
| Redox Potential (mV) | -50 to -100 | Bi-weekly | Appendix E-2 |
| Water Depth (ft) | 1 or less | Bi-weekly | Appendix E-3 |

8.5.2 **IF** the pH limits are exceeded add lime to neutralize the pH.

8.5.3 Perform the SRB, HAB and IRB BART test as described in section 8.4.7

8.6 Maintenance of the Constructed Wetland System

8.6.1 Task Outline for Operation and Maintenance of CWTS:

| PARAMETER | MONITORING FREQUENCY | APPENDICES |
|---|---|---|
| Water depth within wetland cells | Bi-weekly | Appendix F-1 |
| Redox measurements | Bi-weekly | Appendix F-2 |
| Redox probe maintenance | Quarterly | Appendix F-3 |
| Microbial community (BART test) | Quarterly | Appendix F-4 |
| Plant Growth | monthly | Appendix F-5 |
| Plant health-observation for disease, herbivory, new growth | Bi-weekly | Appendix F-6 |
| Monitor for invasive plants-weeding, herbicide | As needed | Appendix F-7 |
| Inflow/Outflow structures-monitoring and cleaning | Bi-weekly | Appendix F-8 |
| Monitor for salt accumulation on structures-steam cleaning | As needed | Appendix F-9 |
| Monitor hydrosoil amendment concentrations | Quarterly | Appendix F-10 |
| Solids removal from EQ basin | As needed | Appendix F-11 |
| Berm maintenance-monitor for structural integrity, inspection for burrowing wildlife | Bi-weekly | Appendix F-12 |
| Berm maintenance-mowing | As needed | Appendix F-13 |
| Monitor for bird/wildlife usage | Bi-weekly | Appendix F-14 |
| Plant health-ion concentrations | Quarterly | Appendix F-15 |
| Plant decomposition | monthly | Appendix F-16 |

## 9.0 Hydrosoil Analysis

9.1 Hydrosoil samples are taken in each wetland cell by hand, utilizing six different labeled, ½ gallon buckets. A representative sample should be obtained by hand or by plastic scoop, gently scraping only the top 2-3 inches of soil. Shoulder-length, chemical impervious gloves should be used to obtain the sample.

9.2 Back in the lab, carefully drain each bucket and place the contents in stainless drying pans. Spread to aerate and to promote drying.

9.3 Once dry (several days), place generous amount in large, labeled Ziploc bags and ship via FedEx Ground to Environmental Chemists for N,P,K and Organic Matter. Results should be returned in 3-4 weeks.

## 10.0 Wetlands Performance Matrix

10.1 The Wetlands Performance Matrix was developed as a tool used to report all parameters of Wetland analysis for a more simplified overview. It is located on the Plant's S: Drive in the Scrubber/Lab results/WWT and Wetlands Data/Wetlands Performance Matrix

10.2 Fill in all specific and comprehensive fields of the document. Consult with Environmental Chemistry Technician to include Mercury Monitoring data.

10.3 Distribute this document to the following:

1. EHHS Support
2. O&M Superintendent
3. Plant Manager

EHHS Support will distribute this report to Consultant and others as needed.

## 11.0 Wetlands Shutdown/Refurbishment

11.1 After a number of years of performance and incubation, it may become necessary to shutdown the wetlands for the purpose of closing the cells indefinitely or simply refurbishing or regenerating the cells. At this time, it will become necessary to clean out or dredge the wetlands cells and dispose of the refuse in an approved landfill.

11.2 Another consideration for closing and dredging could be hydrosoil toxicity, which would deteriorate or possibly entirely disable the removal/performance capability of wetlands cells in general.

11.3 Prior to dredging, have the hydrosoil and plants analyzed for TLCP Metals to determine the complete constituency of the soil and plants. This will aid in proper disposal as well as determining if the hydrosoil has become toxic to the plants. The accreting design of the wetland and the fact that the metals are typically not bio-available should eliminate that possibility. Laboratory analysis should be used to confirm that remote possibility.

11.4 Dredge, dewater and dispose in Landfill. Contact Pascon and Republic Services for assistance.

## 12.0 RETURN TO NORMAL

NONE

## 13.0 DOCUMENTATION

13.1 Asheville Laboratory Form 200: BART Observation Form

## 14.0 REFERENCES

14.1 ASHE-0-DV-095901-CONCEPTUAL-DESIGN-REPORT-R1

14.2 ASHE-0-SD-526-0001-RA SYSTEM DESCRIPTION-526 FOR FGD BLOWDOWN WASTEWATER TREATMENT SYSTEM

14.3 Biological Activity Reaction Test User Manual (2004 Edition)

1. SRB-DBSLS05 Sulfate Reducing Bacteria Testing Guidelines
2. IRB-DBILS05 Iron Related Bacteria Testing Guidelines
3. DBHSOP05 Standard Operating Procedure for Setting up HAB-BART tester, section 1
4. HAB-DBHLS05 Heterotrophic Aerobic Bacteria Testing Guidelines
5. DBILS05, Section 5: Disposal Methods of BART testers

14.4 Asheville FGD Project FGD Blowdown WWTP Functional Design Specification (ASHE-0-ER-095902)

# Pretreatment System Performance Requirements

## FGD Blowdown Wastewater Characteristics for WWTS

Critical Task: pH (units)

| | |
|---|---|
| Operating Goal | 5.2 to 5.6 standard pH units |
| Basis for Problem Identification | If pH is <5.2 s.u. check the following: Verify that the Absorber pH probes are clean and calibrated.<br><br>If pH is >5.6 s.u. check the following: Verify that the Absorber pH probes are clean and calibrated. |
| Causal Factors | 1) Mechanical failure of pH probe<br>2) Mechancial failure of pH analyzer<br>3) Mechanical failure of Limestone slurry feed pumps |
| Operational Strategies | 1) Chemistry Technician monitors pH daily to three times per week with handheld pH monitor.<br>2) Continuous monitoring by Operations in the DCS<br>3) Operations makes rounds to observe pH once per shift. |
| Lead Time | Usually achieve resolution within 24 hours. |
| Effectiveness of Control | Sampling should be performed daily for three days until pH is within operating goal. |

# Pretreatment System Performance Requirements

## FGD Blowdown Wastewater Characteristics for WWTS

Critical Task: Temperature (F)

| | |
|---|---|
| Operating Goal | <127°F or 52.78 °C |
| Basis for Problem Identification | If sample is above 127◦F or 58.78°C , check the following for proper operation:<br>Temperature Compensated pH Probe |
| Causal Factors | Mechanical failure of temperature compensated pH probe |
| Operational Strategies | 1) Chemistry Technician monitored temperature three to five times weekly<br><br>2) Operations makes observational rounds once per shift<br><br>3) Parameter continuously monitored in the DCS with alarms in place |
| Lead Time | Usually achieve resolution within 24 hours |
| Effectiveness of Control | Sampling should be performed daily for three days until temperature is <127◦F or 52.78°C |

# Pretreatment System Performance Requirements

## FGD Blowdown Wastewater Characteristics for WWTS

Critical Task: Chloride (ppm)

| | |
|---|---|
| Operating Goal | To maintain <20,000 ppm in each absorber tower |
| Basis for Problem Identification | If Chloride is greater than 20,000 ppm, check the following:<br><br>Coal Quality is high in chlorides<br>Blow down flow to Waste Water Treatment is not reducing the chlorides |
| Causal Factors | 1. Coal Quality exceeds normal chloride values<br>2. One or both blow down pumps is not operating, has ran to failure, or is out of service due to scheduled maintenance/PM. |
| Operational Strategies | Chemistry Technician monitors Chlorides three to five times weekly |
| Lead Time | Usually resolution is achieved within 24 hours. |
| Effectiveness of Control | Chloride level should be monitored daily for three days until <20,000 ppm. |

# Pretreatment System Performance Requirements

## FGD Blowdown Wastewater Characteristics for WWTS

Critical Task: Alkalinity (ppm)

| | |
|---|---|
| Operating Goal | >15-20 ppm |
| Basis for Problem Identification | If alkalinity is less than 15-20 ppm, check the following for proper operation:<br><br>Limestone flow rate |
| Causal Factors | 1. Limestone quality<br>2. Limestone flow rate is not accurate; system is underfeeding |
| Operational Strategies | Chemistry Technicians sample weekly. |
| Lead Time | Usually resolution is achieved within 24 hours. |
| Effectiveness of Control | Alkalinity should be monitored bi-weekly until > 15-20 ppm is achieved. |

# Pretreatment System Performance Requirements

### FGD Blowdown Wastewater Characteristics for WWTS

Critical Task: FGD Blowdown Wastewater Flow Rate (gpm)

| | |
|---|---|
| Operating Goal | 73 gpm |
| Basis for Problem Identification | If blowdown flow to WWT falls to zero, check the following:<br>1) Proper operation of blowdown pumps and backup blowdown pumps.<br>2) Check to see if Recirculation valve has opened<br>3) Check proper operation of primary hydrocyclone nozzles. |
| Causal Factors | 1) Mechanical failure of blowdown pumps and/or backup blowdown pump.<br>2) Check to see if Recirculation valve has opened, which occurs if level in inlet/desat tank falls < 6.0 feet.<br>3) Mechanical failure of primary hydrochclone nozzles. |
| Operational Strategies | 1) Operational rounds once per shift<br>2) Blowdown flow rate monitored by control room DCS with alarms in place<br>3) PM's performed quarterly on blowdown pumps and primary hydrocyclone nozzles |
| Lead Time | Usually achieve resolution within 24 hours. |
| Effectiveness of Control | Flow rate should be monitored frequently during the next 24 hours to ensure proper flow rate. |

# Pretreatment System Performance Requirements

### FGD Blowdown Wastewater Characteristics for WWTS

Critical Task: Total Suspended Solids (TSS) (ppm)

| | |
|---|---|
| Operating Goal | Monitoring only. Design value is <26,000 mg/L. |
| Basis for Problem Identification | If TSS is greater than 26,000 mg/l, check the following for proper operation:<br><br>Nuclear Density Meter<br>Improper blowdown from purge hydrocyclone |
| Causal Factors | 1. Nuclear density meter has failed or needs calibration<br>2. Purge hydrocyclone has failed to blow down or is plugged<br>3. Primary hydrocyclone has failed to classify the solids or is plugged. |
| Operational Strategies | 1. Operational rounds are performed once per shift<br>2. Chemistry Technicians sample once monthly for TSS content<br>3. Observe clarifier tank frequent for signs of inadequate settling, I.e., pinflock in the top of the clarifier, excessive solids in the recycle sludge. |
| Lead Time | Usually achieve resolution within 1 week. |
| Effectiveness of Control | Sampling should be performed daily for three days until observed TSS is within normal range. |

**Appendix B-1**

# Pretreatment System Performance Requirements

## FGD Effluent Wastewater Characteristics for WWTS

Critical Task: pH (units)

| | |
|---|---|
| Operating Goal | 6.5 to 8 standard pH units |
| Basis for Problem Identification | If pH is <6.5 s.u. check the following: Verify that the pH probes are clean and calibrated and that the Sodium Hydroxide feed rate is normal.<br><br>If pH is >8 s.u. check the following: Verify that the pH probes are clean and calibrated and stop Sodium Hydroxide feed pump until pH recovers or as a last resort initiate HCL acid feed pump until pH is within WWTS limits. |
| Causal Factors | 1) Mechanical failure of pH probe<br>2) Mechanical failure of pH analyzer<br>3) Sodium Hydroxide feed to the influent tank needs to be increased or decreased<br>4) Mechanical failure of Sodium Hydroxide pump. |
| Operational Strategies | 1) Operational pH check in PI trends is performed once daily by Chemistry Technicians<br>2) Weekly check against calibrated portable pH meter is performed by Chemistry Technicians<br>3) Weekly cleaning of pH probes is performed by Chemistry Technicians. |
| Lead Time | Usually achieve resolution within 24 hours. |
| Effectiveness of Control | PI trend charts should be observed twice daily by Chemistry Technicians or Operations until pH returns to normal. |

# Pretreatment System Performance Requirements

## FGD Effluent Wastewater Characteristics for WWTS

Critical Task: Temperature (◦F)

| | |
|---|---|
| Operating Goal | <104◦F |
| Basis for Problem Identification | If temperature of tank exceeds 104◦F perform the following: Decrease FGD wastewater flow rate and increase lake water flow rate. |
| Causal Factors | 1) FGD blowdown flow temperature excessive<br>2) Clarifier/lake water ratio not correct<br>3) Excessive ambient temperatures. |
| Operational Strategies | Chemistry Technicians monitor temperature once per week. |
| Lead Time | Usually achieve resolution within 24 hours. |
| Effectiveness of Control | Temperature should be monitored for three days or until reduced below 104◦F. |

# Pretreatment System Performance Requirements

## Equalization Basin

Critical Task: Total Suspended Solids (TSS) (ppm)

| | |
|---|---|
| Operating Goal | <204 ppm |
| Basis for Problem Identification | If sample exceeds 204 ppm check the following for proper operation: Polymer feed pump and clarifier scrapers. |
| Causal Factors | 1) Mechanical failure of polymer feed pump or clarifier system<br>2) Polymer tank is empty or low level. |
| Operational Strategies | 1) Operational rounds are performed once per shift<br>2) Annual maintenance PM to inspect clarifier<br>3) Chemistry Technicians perform rounds on day shift<br>4) Chemistry Technicians sample once weekly. |
| Lead Time | Usually achieve resolution within 24 hours. |
| Effectiveness of Control | Sampling should be performed daily for three days until observed TSS is less than 204 ppm. |

# Pretreatment System Performance Requirements

### Equalization Basin

Critical Task: Chloride (ppm)

| | |
|---|---|
| Operating Goal | <4000 pm |
| Basis for Problem Identification | If Chlorides exceed 4000 ppm, perform the following: Decrease FGD wastewater flow rate and/or increase lake water flow rate. |
| Causal Factors | Mechanical failure of lake water flow system. |
| Operational Strategies | 1. Chemistry Technicians sample weekly<br>2. Notify Operations and require that system be inspected for deficiencies. |
| Lead Time | Usually achieve resolution within 24 hours. |
| Effectiveness of Control | Sampling should be performed be-weekly until observed Chlorides are <4000 ppm. |

# Pretreatment System Performance Requirements

## Equalization Basin

Critical Task: Mercury (ug/l)

| | |
|---|---|
| Operating Goal | Monitoring only. Normal range would be <5.0 µg/L. |
| Basis for Problem Identification | Is sample exceeds normal range, check the following for proper operation:<br>Polymer and Metclear feed pumps<br>Clarifier scrapers |
| Causal Factors | 1) Mechanical failure of Polymer or Metclear feed pump(s)<br>2) Mechanical failure of clarifier system<br>3) Polymer or Metclear tank is empty or low level |
| Operational Strategies | 1) Operational rounds are performed once per shift<br>2) Annual maintenance PM to inspect Clarifier<br>3) Chemistry Technicians perform round on day shift<br>4) Chemistry Technicians sample once weekly |
| Lead Time | Usually achieve normal range within 1-2 weeks. |
| Effectiveness of Control | Sampling should be performed bi-weekly until Mercury level is within normal range. |

# Pretreatment System Performance Requirements

## Equalization Basin

Critical Task: Selenium (ppm)

| | |
|---|---|
| Operating Goal | Monitoring only. Normal range would be <1.0 mg/L. |
| Basis for Problem Identification | Is sample exceeds normal range, check the following for proper operation:<br>Polymer and Metclear feed pumps<br>Clarifier scrapers |
| Causal Factors | 1) Mechanical failure of Polymer or Metclear feed pump(s)<br>2) Mechanical failure of clarifier system<br>3) Polymer or Metclear tank is empty or low level |
| Operational Strategies | 1) Operational rounds are performed once per shift<br>2) Annual maintenance PM to inspect Clarifier<br>3) Chemistry Technicians perform round on day shift<br>4) Chemistry Technicians sample once weekly |
| Lead Time | Usually achieve normal range within 1-2 weeks. |
| Effectiveness of Control | Sampling should be performed bi-weekly until Selenium level is within normal range. |

## Appendix D-1

# Pretreatment System Performance Requirements

### Bulrush Constructed Wetlands

Critical Task: pH (units)

| | |
|---|---|
| Operating Goal | 4 to 9 standard pH units |
| Basis for Problem Identification | If pH is outside of limits verify that the pH probe is clean and calibrated and that WWT caustic/acid feed rate is normal. If necessary, add lime at a rate to be determined by the Wetlands Consultant. |
| Causal Factors | 1) Mechanical failure of pH probe<br>2) Mechanical failure of pH analyzer<br>3) Mechanical failure of Sodium Hydroxide pump<br>4) Organic material breaking down causes organic acids |
| Operational Strategies | 1) Bi-monthly pH checks performed by Chemistry Technicians with calibrated pH meter.<br><br>2) Contact EHHS support for discussion. |
| Lead Time | Usually achieve resolution within 2 weeks. |
| Effectiveness of Control | Monitor pH weekly until pH is from 4 s.u. to 9 s.u. |

# Pretreatment System Performance Requirement

## Bulrush Constructed Wetlands

Critical Task: Redox Potential (mV)

| | |
|---|---|
| Operating Goal | -250 mV or lower |
| Basis for Problem Identification | If the Redox is outside specified limits:<br>1) Check the water depth and adjust to specified level if necessary<br>2) Verify that the redox probe is inserted approximately 3 inches in the hydrosoil and not impacted by a root zone<br>3) Ensure that the redox probe is functioning properly (see procedure) |
| Causal Factors | 1) Water depth inaccurate<br>2) Redox probe need to be readjusted<br>3) Mechanical failure of redox probe |
| Operational Strategies | 1) Chemistry Technicians measure redox bi-monthly.<br><br>2) Contact EHSS for support. |
| Lead Time | Usually achieve resolution in 2 weeks. |
| Effectiveness of Control | Redox should be monitored by Chemistry Technician weekly until -250 mV or lower. |

# Pretreatment System Performance Requirements

## Bulrush Constructed Wetlands

Critical Task: Water depth (ft)

| | |
|---|---|
| Operating Goal | 1.5 feet |
| Basis for Problem Identification | If water level is significantly above or below 1.5 feet, check the following:<br>1) Check stoplogs for proper operation<br>2) Check valve positions between cells<br>3) Check flow from Equalization Basin<br>4) Check rainfall data |
| Causal Factors | 1) Mechanical failure of stoplog(s)<br>2) Improper positioning of valves<br>3) No flow from Equalization Basin<br>4) Excessive rainfall |
| Operational Strategies | Chemistry Technician measure water depth bi-monthly. |
| Lead Time | Usually achieve resolution in 1 week. |
| Effectiveness of Control | Water depth should be measured by Chemistry Techncian weekly until approximately 1.5 feet is achieved. |

# Pretreatment System Performance Requirements

## Bulrush Constructed Wetlands

Critical Task: Temperature

| | |
|---|---|
| Operating Goal | <104◦F |
| Basis for Problem Identification | If temperature exceeds 104◦F perform the following: Decrease FGD wastewater flow rate and/or increase lake water flow rate. |
| Causal Factors | 1) Ambient temperatures excessive<br>2) FGD flow temperature excessive<br>3) Effluent/lake water flow ratio not correct |
| Operational Strategies | 1) Chemistry Technicians monitor temperature bi-monthly.<br><br>2) Contact operations to check lake water flow system operating correctly. |
| Lead Time | Usually achieve resolution within 1 week. |
| Effectiveness of Control | Temperature should be monitored daily until temperature is reduced below 104◦F. |

# Pretreatment System Performance Requirements

### Bulrush Constructed Wetlands

Critical Task: Sulfate (aqueous)

| | |
|---|---|
| Operating Goal | Monitoring only. |
| Basis for Problem Identification | If the sulfate concentration level does not reduce from inflow to outflow of wetland cells, more sulfate addition may be necessary. Contact consultant or EHSS support for guidance in sulfate addition. |
| Causal Factors | Inadequate supply of sulfate in wetland cell. |
| Operational Strategies | Chemistry Technicians sample monthly. |
| Lead Time | Usually achieve resolution in one month. |
| Effectiveness of Control | Chemistry Technicians should continue to monitor aqueous sulfate monthly, unless directed otherwise by consultant or plant management. |

**Appendix E-1**

# Pretreatment System Performance Requirements

## Cattail Constructed Wetlands

Critical Task: pH (units)

| | |
|---|---|
| Operating Goal | pH 5.5 to 8.0 s.u. |
| Basis for Problem Identification | If pH is outside of limits verify that the pH probe is clean and calibrated and that WWT Sodium Hydroxide feed rate is normal. If these parameters are verified and the pH is high, lime addition to raise pH may be necessary. Consult Wetlands consultant to determine necessary lime addition rate. |
| Causal Factors | 1) Mechanical failure of pH probe<br>2) Mechanical failure of pH analyzer<br>3) Mechanical failure of Sodium Hydroxide pump<br>4) Organic material breakdown causes organic acids to be produced |
| Operational Strategies | 1) Bi-monthly pH checks performed by Chemistry Technicians with calibrated pH meter.<br><br>2) Contact EHSS for discussion |
| Lead Time | Usually achieve resolution within 2 weeks. |
| Effectiveness of Control | Monitor pH weekly until pH is from 5.5 s.u. to 8.0 s.u. |

# Pretreatment System Performance Requirement

## Cattail Constructed Wetlands

Critical Task: Redox Potential (mV)

| | |
|---|---|
| Operating Goal | -50 to -100 mV |
| Basis for Problem Identification | If the Redox is outside specified limits:<br>1) Check the water depth and adjust to specified level if necessary<br>2) Verify that the redox probe is inserted approximately 3 inches in the hydrosoil and not impacted by a root zone<br>3) Ensure that the redox probe is functioning properly (see procedure) |
| Causal Factors | 1) Water depth inaccurate<br>2) Redox probe need to be readjusted<br>3) Mechanical failure of redox probe |
| Operational Strategies | 1) Chemistry Technicians measure Redox bi-monthly.<br><br>2) Contact EHSS for support. |
| Lead Time | Usually achieve resolution in 2 weeks. |
| Effectiveness of Control | Redox should be monitored by Chemistry Technician weekly until -50 to -100 mV. |

# Pretreatment System Performance Requirements

## Cattail Constructed Wetlands

Critical Task: Water depth (ft)

| | |
|---|---|
| Operating Goal | 1 foot or less |
| Basis for Problem Identification | If water level is significantly above or below 1.5 feet, check the following:<br>1) Check stoplogs for proper operation<br>2) Check valve positions between cells<br>3) Check flow from Equalization Basin<br>4) Check rainfall data |
| Causal Factors | 1) Mechanical failure of stoplog(s)<br>2) Improper positioning of valves<br>3) No flow from Equalization Basin<br>4) Excessive rainfall |
| Operational Strategies | Chemistry Technician measure water depth bi-monthly. |
| Lead Time | Usually achieve resolution in 1 week. |
| Effectiveness of Control | Water depth should be measured by Chemistry Techncian weekly until approximately 1.5 feet is achieved. |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Water depth within wetland cells

| | |
|---|---|
| Operating Goal | 1.5 feet for bulrush and 1 foot or less for cattails |
| Basis for Problem Identification | If water level is significantly above or below the target, check the following:<br>1) Check stoplogs for proper operation<br>2) Check valve positions between cells<br>3) Check flow from Equalization Basin<br>4) Check rainfall data |
| Causal Factors | 1) Mechanical failure of stoplog(s)<br>2) Improper positioning of valves<br>3) No flow from Equalization Basin<br>4) Excessive rainfall |
| Operational Strategies | Chemistry Technician measure water depth bi-monthly. |
| Lead Time | Usually achieve resolution in 1 week. |
| Effectiveness of Control | Water depth should be measured by Chemistry Technician weekly until approximately 1.5 feet for Bulrush and 1.0 foot or less for Cattails is achieved. |

# Pretreatment System Performance Requirement

## Maintenance of Constructed Wetland System

Critical Task: Redox Measurements

| | |
|---|---|
| Operating Goal | -250 mV or lower for Bulrush and -50 to -100 mV for Cattails |
| Basis for Problem Identification | If the Redox is outside specified limits:<br>1) Check the water depth and adjust to specified level if necessary<br>2) Verify that the redox probe is inserted approximately 3 inches in the hydrosoil and not impacted by a root zone<br>3) Ensure that the redox probe is functioning properly (see procedure) |
| Causal Factors | 1) Water depth inaccurate<br>2) Redox probe need to be readjusted<br>3) Mechanical failure of redox probe |
| Operational Strategies | 1) Chemistry Technicians measure redox bi-monthly.<br>2) Contact EHSS for support. |
| Lead Time | Usually achieve resolution in 2 weeks. |
| Effectiveness of Control | Redox should be monitored by Chemistry Technician weekly until -250 mV or lower for Bulrush and -50 to -100 mV for Cattails is achieved. |

# Pretreatment System Performance Requirements

## Maintenance of Constructed Wetland System

Critical Task: Redox Probe Maintenance

| | |
|---|---|
| Operating Goal | To maintain recordable, accurate measurements from both the measuring and reference electrode. |
| Basis for Problem Identification | No measurement or poor measurement is obtained using Greenlee voltmeter or equivalent. |
| Causal Factors | 1. Voltmeter fails<br>2. Measuring electrode tip eroded away or is missing<br>3. Reference electrode eroded away or missing<br>4. Probe pulled up and away from sediment seat<br>5. Probe impacted by root zone |
| Operational Strategies | 1. Reposition either probe or both<br>2. Check voltmeter for proper operation and replace as needed<br>3. Replace probe(s) by contacting Consultant to re-order |
| Lead Time | Problem resolution should be obtained within 1 week. New probes should be delivered within 2 weeks to 1 month. |
| Effectiveness of Control | Redox values should stabilize within 1 week. Redox should be measured weekly with corrective actions repeated until stabilization occurs. |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetlands System

Critical Task: Microbial community (BART test)

| | |
|---|---|
| Operating Goal | To maintain medium to aggressive microbial communities in all seasons. BART test performed 1 time per quarter or as determined by the Consultant or the EHSS Support Contact. |
| Basis for Problem Identification | BART (Biological Activity Reaction Test) yields low population of microbes. |
| Causal Factors | 1. Not enough nutrients in hydrosoil for microbial community to thrive<br>2. Not enough plant decomposition to provide nourishment for microbes<br>3. Microbial community lying dormant due to colder temperatures |
| Operational Strategies | Depending on the BART deficiency, add one or more of the following:<br><br>1. Hay/mulch/bark<br>2. sulfate/sulfur<br>3. zero valent iron<br>4. fertilizer |
| Lead Time | Resolution within one month |
| Effectiveness of Control | Chemistry technician should perform BART test until populations resume medium or aggressive populations. |

# Pretreatment System Performance Requirements

## Maintenance of Constructed Wetland System

Critical Task: Plant Growth

| | |
|---|---|
| Operating Goal | To maintain healthy, growing plants |
| Basis for Problem Identification | Plants growth observably diminished. Thin plants browning beyond the normal "tops" |
| Causal Factors | 1. Lack of nutrients<br>2. Insect infestations<br>3. Animal activity<br>4. Abnormal water level |
| Operational Strategies | 1. Perform Hydrosoil analysis once per quarter<br>2. Use pesticides as determined by Consultant of EHSS Support<br>3. Adjust water level<br>4. Add Osmocoate fertilizer |
| Lead Time | Resolution should occur within one quarter or one growing season |
| Effectiveness of Control | Repeat hydrosoil analysis until nutrients return to normal quantities, and plants are observably improved |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Plant health – observation for disease, herbivory, new growth

| | |
|---|---|
| Operating Goal | To maintain healthy plants that return in plenteous amounts each Spring. |
| Basis for Problem Identification | Plants browning beyond normal "tops". Insects observed. Plants missing. |
| Causal Factors | 1. Lack of nutrients<br>2. Insect infestation<br>3. Animals consuming plants or being destructive |
| Operational Strategies | 1. Analyze hydrosoil once per quarter to determine added amendments<br>2. Use Pesticides as recommended by Consultant or EHSS Support<br>3. Create animal barriers<br>4. Add Osmocoate Fertilizer |
| Lead Time | Resolution should occur in 1 quarter to one growing season. |
| Effectiveness of Control | Chem Tech should perform hydrosoil analysis until nutrient quantities return to normal and plant health is observably improved. |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Monitor for invasive plants – weeding, herbicide

| | |
|---|---|
| Operating Goal | To maintain Bulrush cells and Cattail cells without the intermingling of species or overgrowth of nuisance vegetation |
| Basis for Problem Identification | Observable intermingling of plant species and/or nuisance vegetation in or on the banks of cells |
| Causal Factors | 1. Migration of plant seeds/fruit<br>2. Osmocoate fertilize addition, while necessary for cattail and bulrush nutrient supplementation, often encourages weed growth. |
| Operational Strategies | 1. Weed out undesired plants, preferably b y the root<br>2. Use herbicide, recommended by EHSS Support, to reduce nuisance vegetation<br>3. Limit excessive application of fertilizer |
| Lead Time | Resolution time should be within one quarter to one growing season |
| Effectiveness of Control | Chemistry technician should monitor as needed. |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Inflow/Outflow structures – monitoring and cleaning

| | |
|---|---|
| Operating Goal | To maintain inflow and outflow structures that are free of obstruction and debri and that promote equal distribution of water flow |
| Basis for Problem Identification | Monitoring yields short circuiting may be occurring in the inflow or water levels may be noticeably inaccurate due to obstruction in the outflow |
| Causal Factors | 1. Sediment or algae buildup in the inflow<br>2. Miscellaneous debri clogging inflow, such as hay addition or amendments<br>3. Plants growing too close to the outfall structure possibly compromising the integrity of the concrete |
| Operational Strategies | 1. Clean inlet troughs and between sandbags or short-circuiting prevention media<br>2. Clean in or around outfall structures by de-weeding around structure |
| Lead Time | Resolution should be achieved within one day |
| Effectiveness of Control | Monitor and clean twice monthly |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Monitor for salt accumulation on structures – steam cleaning

| | |
|---|---|
| Operating Goal | To maintain clean metal grating the cement structures |
| Basis for Problem Identification | Observation yields salt deposits manifesting on metal or rebar |
| Causal Factors | 1. Chlorides in Waste Water Treatment Effluent<br>2. Other process-related salt formations entrained in the flow |
| Operational Strategies | 1. Using a large stiff-bristled brush, clean any structure upon which salt may attach to prevent corrosion and/or unnecessary accumulation |
| Lead Time | Results should be immediate |
| Effectiveness of Control | Chemistry technicians should monitor as needed |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Monitor hydrosoil amendment concentrations

| | |
|---|---|
| Operating Goal | To maintain a hydrosoil conducive to producing and maintaining healthy wetland plants |
| Basis for Problem Identification | Plants observed to be markedly unhealthy or dead |
| Causal Factors | Lack of adequate amounts of the following:<br><br>Nitrogen<br>Phosphorus<br>Potassium<br>Organic Matter |
| Operational Strategies | Acquire representative hydrosoil samples from each cell or the affected cell and have analyzed for Nitrogen, Phosphorus, Potassium and organic matter |
| Lead Time | Results should be returned to chemistry technician within 4 weeks |
| Effectiveness of Control | Chemistry technicians should monitor quarterly |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Solids removal from Equalization Basin

| | |
|---|---|
| Operating Goal | To maintain minimal amounts of solids accumulation in the Equalization Basin |
| Basis for Problem Identification | EQ solids observed to be excessive |
| Causal Factors | 1. Failure of chemical removal in the Inlet/Desat and Clarifier sections of WWT<br>2. Over time solids build up naturally |
| Operational Strategies | 1. Have Operations verify Polyfloc and Metclear pumps are operating correctly<br>2. Check clarifier and effluent solids monthly for TSS<br>3. Annual PM for Lab and Maintenance to utilize sludge judge to determine sludge depth in the EQ. If EQ sludge depth is too high, contact Republic Services to dredge, dewater and landfill |
| Lead Time | Resolution should occur 1 day to 4 weeks |
| Effectiveness of Control | Annual PM to measure solids accumulation |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Berm maintenance – monitor for structural integrity, inspection for burrowing wildlife

| | |
|---|---|
| Operating Goal | To maintain structural integrity of all wetland structures |
| Basis for Problem Identification | Concrete outfall structures are observed to be cracking<br>Soil around concrete berms are eroding due to animal boroughs |
| Causal Factors | 1. Growing plant roots may push against concrete structures resulting in cracking<br>2. Animals may burrow under/around berms<br>3. Erosion from heavy rainfall |
| Operational Strategies | 1. Thin or weed plants<br>2. Call Critter Control<br>3. Continuously monitor for erosion during and after heavy rains |
| Lead Time | Resolution should be achieved within one month |
| Effectiveness of Control | Chemistry technicians should monitor Bi-weekly |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Berm maintenance – mowing

| | |
|---|---|
| Operating Goal | To maintain clean and safe appearance of the wetlands |
| Basis for Problem Identification | Weeds are observed taking over cell perimeters resulting the creation of unattractive appearances or obstructed access to cell entrances, whereby the presence of snakes could go undetected. |
| Causal Factors | 1. Improper scheduling of mowing<br>2. Failure of landscape group to follow through with contract |
| Operational Strategies | 1. Contact Sunset Ridge Landscaping to schedule mowing twice yearly in the Spring and the Fall<br>2. Monitor and follow up with the landscaping group |
| Lead Time | Resolution should be accomplished within 2 weeks of making appointment |
| Effectiveness of Control | Chemistry Technician should monitor wetland grass growth during Spring and Fall to schedule mowing |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Monitor for bird/wildlife usage

| | |
|---|---|
| Operating Goal | To maintain wetlands with a delicate balance of bird and wildlife usage |
| Basis for Problem Identification | 1. Plants are noticed trampled down or eaten away<br>2. Soiled Redox posts<br>3. Lumpy soil<br>4. Burrows/holes in soil<br>5. Bird/fowl feces |
| Causal Factors | 1. Deer<br>2. Muskrats<br>3. Red-winged Black Birds<br>4. Snakes<br>5. Ground hogs<br>6. Ducks<br>7. Geese |
| Operational Strategies | Document activity as to mild or excessive |
| Lead Time | Resolution should occur in two weeks |
| Effectiveness of Control | Chemistry Technician should monitor bi-weekly |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Plant health – ion concentrations

| | |
|---|---|
| Operating Goal | To Maintain healthy plant ion concentrations |
| Basis for Problem Identification | Wetland plants are observed to be in remarkably poor health condition and dying. Exceptional Case ONLY. |
| Causal Factors | Chlorides and boron can cause phytotoxicity . Currently Asheville Plant FGD Wastewater is NOT high in chlorides or boron. |
| Operational Strategies | Obtain plant specimens and ship to NCDA&CS Agronomic Services Division for plant tissue analysis. |
| Lead Time | Result should be received within 4 weeks |
| Effectiveness of Control | Chemistry technicians should monitor plant health conditions bi-weekly or quarterly. This procedure should only be carried out only in dire circumstances, or as requested by the Consultant or EHHS Support Contact |

# Pretreatment System Performance Requirements

### Maintenance of Constructed Wetland System

Critical Task: Plant decomposition

| | |
|---|---|
| Operating Goal | To maintain a wetland in which healthy plants naturally fall over and decompose seasonally, whereby providing nutrients to the hydrosoil and to the microbial community |
| Basis for Problem Identification | Plants fail to fall over and decompose |
| Causal Factors | Plants fail to naturally fall over due to overall plant growth /thickness, therefore microbial community does not benefit or receive nutrition from the plants |
| Operational Strategies | 1. Thin some plants<br>2. Add hay amendments to supplement nutrition<br>3. Add N, P, and K |
| Lead Time | Resolution should be achieved within 3 months |
| Effectiveness of Control | Chemistry technicians should monitor the falling over of plants during the Fall |

**Appendix J**

NPDES Permit No. NC0000396
Question 9

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Coleen H. Sullins, Director
Division of Water Quality

September 12, 2007

Mr. William A. Phipps, Plant Manager
Progress Energy Carolinas, Inc.
Asheville Steam Electric Plant
200 CP&L Drive
Arden, NC 28704

Subject: NPDES Permit Modification
Permit Number NC0000396
Asheville Steam Electric Generating Plant
Buncombe County

Dear Mr. Phipps:

Division personnel have reviewed and approved your application for modification of the subject permit. Accordingly we are forwarding the attached modified permit.

This modification reduces the effluent monitoring requirements for a number of parameters identified as being constituent to wastewater generated by the facility's flue gas desulfurization (FGD) system. The reduction of these monitoring requirements was based upon the results of effluent sampling that indicated these parameters were not present at levels that would pose the risk of causing exceedence of water quality standards in the receiving stream.

One notable change within this final permit from the monitoring frequencies found in the draft permit sent to you on July 18, 2007 is with regard to mercury sampling at outfall 001. In the draft, monitoring was proposed to be monthly. However, since the issuance of the draft, data from this outfall have been received indicating there is reasonable potential for the water quality standard for mercury to be exceeded due to the concentrations of mercury in the effluent. Therefore, the monitoring frequency for mercury at outfall 001 will remain weekly, as is required in the currently active permit. All other monitoring frequencies shall remain the same as noted in the draft permit. While this modification establishes minimum monitoring frequencies at internal outfall 005 (the FGD wastewater treatment system) as monthly for all parameters, you are encouraged to continue to perform additional process control testing of this wastewater to help ensure the system's optimal operation.

This modification is issued pursuant to the requirements of North Carolina General Statute 143-215.1 and the Memorandum of Agreement between North Carolina and the U.S. Environmental Protection Agency dated May 9, 1994 (or as subsequently amended).

Please note that this permit is not transferable except after notice to the Division. The Division may require modification or revocation and reissuance of the permit. This permit does not affect the legal requirements to obtain other permits which may be required by the Division of Water Quality or permits required by the Division of Land Resources, the Coastal Area Management Act or any other Federal or Local governmental permit that may be required. If you have any questions concerning this permit, please contact Bob Sledge at telephone number (919) 733-5083, extension 547.

Sincerely,

for Coleen H. Sullins

cc: Central Files
Asheville Regional Office/Surface Water Protection Section
NPDES Unit

# STATE OF NORTH CAROLINA
# DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
# DIVISION OF WATER QUALITY

## PERMIT

TO DISCHARGE WASTEWATER UNDER THE

## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of North Carolina General Statute 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Federal Water Pollution Control Act, as amended,

**Progress Energy Carolinas, Incorporated**

is hereby authorized to discharge wastewater from a facility located at the

**Asheville Steam Electric Generating Plant**
**200 CP&L Drive**
**Arden, North Carolina**
**Buncombe County**

to receiving waters designated as the French Broad River, Lake Julian, and an unnamed tributary to Powell Creek in the French Broad River Basin in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III, and IV hereof.

This permit shall become effective November 1, 2007.

This permit and the authorization to discharge shall expire at midnight on December 31, 2010.

Signed this day September 12, 2007.

For Coleen H. Sullins, Director
Division of Water Quality
By Authority of the Environmental Management Commission

## SUPPLEMENT TO PERMIT COVER SHEET

All previous NPDES Permits issued to this facility, whether for operation or discharge are hereby revoked. As of this permit issuance, any previously issued permit bearing this number is no longer effective. Therefore, the exclusive authority to operate and discharge from this facility arises under the permit conditions, requirements, terms, and provisions included herein.

**Progress Energy Carolinas, Incorporated**

is hereby authorized to:

1. Continue to operate the following systems located at **Asheville Steam Electric Generating Plant**, 200 CP&L Drive, Arden, Buncombe County:

   - **Ash Pond Treatment System (Outfall 001).** Outfall 001 discharges directly to the French Broad River. The ash pond receives ash transport water, coal pile runoff, storm water runoff, various low volume wastes (such as boiler blowdown, backwash from the water treatment processes, ash hopper seal water, plant drains), air preheater cleaning water and chemical metal cleaning wastewater discharged from Internal Outfall 004 (potentially.

   - **Once Through Non-Contact Cooling Water System (Outfall 002).** This wastestream is discharged directly to Lake Julian via Outfall 002.

   - **Chemical Metal Cleaning Treatment System (Internal Outfall 004)**. This wastestream may occasionally be discharged via Internal Outfall 004 to the ash pond treatment system or to the old ash pond (with prior DWQ approval). Generally chemical metal cleaning wastes are treated by evaporation in boilers.

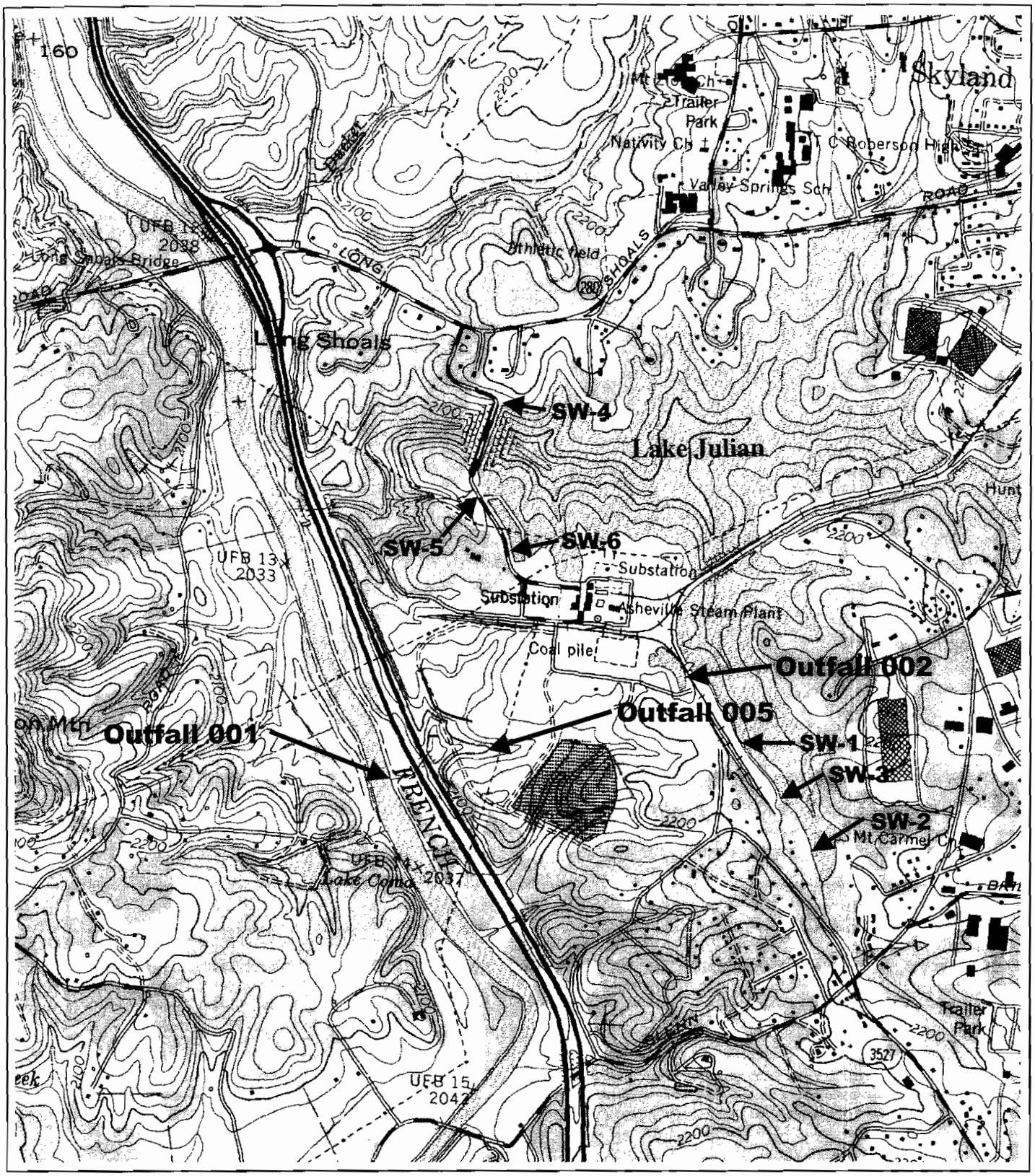
   - **Stormwater Discharge System** The facility is permitted to discharge stormwater to Lake Julian and an unnamed tributary to Powell Creek through the following outfalls:

     - **Outfalls SW-1, SW-2, and SW-3** - Drainage from the new access road used to transport coal and oil truck deliveries. Outfalls discharge to Lake Julian.

     - **Outfalls SW-4, SW-5, and SW-6** - Drainage from the old access road used to transport coal and oil truck deliveries. Outfalls SW-4 and SW-6 discharge to Lake Julian, while SW-5 discharges to an unnamed tributary to Powell Creek.

   - **Flue Gas Desulfurization (FGD) wet scrubber wastewater treatment system**, which will discharge to the secondary settling basin (after the Ash Pond) via internal **Outfall 005** (with ultimate discharge via Outfall 001).

2. Discharge from said treatment works and/or outfalls at the locations specified on the attached map into the French Broad River (via Outfall 001), Lake Julian (via Outfall 002, SW-1,2,3,4,6), and an unnamed tributary to Powell Creek (via SW-5), which are all classified as C waters in the French Broad River Basin.




Latitude: 35°28'02"
Longitude: 82°32'56"
Quad # F8NE (Skyland)
Receiving Stream: French Broad River
Lake Julian
UT Powell Creek

Stream Class: C
Subbasin: 04-03-02

Facility Location

NC0000396 – Asheville Steam Electric Gen. Plant
Buncombe County

## A. (1). EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of the permit and lasting until expiration, the Permittee is authorized to discharge from **Outfall 001 (Ash Pond Treatment System)**. Such discharges shall be limited and monitored by the Permittee as specified below:

| EFFLUENT CHARACTERISTICS | LIMITS | | MONITORING REQUIREMENTS | | |
|---|---|---|---|---|---|
| | Monthly Average | Daily Maximum | Measurement Frequency | Sample Type | Sample Location[1] |
| Flow | | | Weekly | Instantaneous | E |
| Oil and Grease | 15.0 mg/L | 20.0 mg/L | Monthly | Grab | E |
| Total Suspended Solids | 30.0 mg/L | 100.0 mg/L | Monthly | Grab | E |
| pH | 6 ≤ pH ≤ 9 | | Weekly | Grab | E |
| Total Mercury | | 0.63 ug/L | Weekly | Grab | E |
| Total Arsenic | | | Monthly | Grab | E |
| Total Beryllium | | | Quarterly | Grab | E |
| Total Cadmium | | | Quarterly | Grab | E |
| Total Chlorides | | | Monthly | Grab | E |
| Total Chromium | | | Quarterly | Grab | E |
| Total Copper | | | Quarterly | Grab | E |
| Total Fluoride | | | Quarterly | Grab | E |
| Total Lead | | | Quarterly | Grab | E |
| Total Manganese | | | Quarterly | Grab | E |
| Total Nickel | | | Quarterly | Grab | E |
| Total Selenium[2] | | | Monthly | Grab | E |
| Total Silver | | | Quarterly | Grab | E |
| Total Thallium | | | Quarterly | Grab | E |
| Total Zinc | | | Quarterly | Grab | E |
| Total Nitrogen (NO2+NO3+TKN) | | | Quarterly | Grab | E |
| Total Phosphorus | | | Quarterly | Grab | E |
| Chronic Toxicity[3] | | | Quarterly | Grab | E |
| Fish Tissue Sampling | | | Annually | Footnote 4 | Instream |

**Notes:**

1. Sample locations: E - Effluent.
2. See special conditions A. (8). and A. (12).
3. Chronic Toxicity (*Ceriodaphnia*) at 1.9%; January, April, July, October; See Special Condition A. (6).
4. Fish tissue sampling shall be conducted annually as specified in Condition A. (12).

*There shall be no discharge of floating solids or visible foam in other than trace amounts.*

There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.

## A. (2). EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of the permit and lasting until expiration, the Permittee is authorized to discharge from **Outfall 002 (Once Through Cooling Water)**. Such discharges shall be limited and monitored by the Permittee as specified below:

| EFFLUENT CHARACTERISTICS | LIMITS | | MONITORING REQUIREMENTS | | |
|---|---|---|---|---|---|
| | Monthly Average | Maximum | Measurement Frequency | Sample Type | Sample Location[1] |
| Flow | | | Daily | Pump Logs | E |
| Total Residual Chlorine[2] | | 200 µg/L | Daily | Grab | E |
| Time of Chlorine Addition[2] | | 2 hours | Daily | Logs | |
| Temperature | 44.4°C | | Daily | Recorder | E |
| pH | | | Weekly | Grab | E |

**Notes:**

1. Sample locations: E - Effluent.
2. Total residual chlorine shall not be discharged from any single generating unit for more than two hours per day, unless the Permittee demonstrates to the Division of Water Quality that discharge for more than two hours is required for macroinvertebrate control. The 200 µg/L limitation is an instantaneous maximum effluent limitation defined as the value which shall not be exceeded at any time, and is to be measured during the chlorine release period. If the chlorine release period is programmed for multiple intervals per day, sampling is required only during one representative interval per day. Simultaneous multi-unit chlorination is permitted. Monitoring for total residual chlorine is required only if chlorine is added to the system.

The mixing zone has been defined as all of Lake Julian.

The permittee shall obtain authorization from the Division prior to use of any chemical additive in the discharge. The permittee shall notify the Director in writing at least ninety (90) days prior to instituting use of any additional additive in the discharge which may be toxic to aquatic life (other than additives previously approved by the Division). Such notification shall include completion of Biocide Worksheet Form 101 (if applicable), a copy of the MSDS for the additive, and a map indicating the discharge location. **There shall be no chromium, zinc, or copper added to the discharge except as pre-approved additives to biocidal compounds**.

There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. There shall be no discharge of floating solids or visible foam in other than trace amounts.

## A. (3). EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of the permit and lasting until expiration, the Permittee is authorized to discharge from **Internal Outfall 004 (Chemical Metal Cleaning Treatment System)**. Such discharges shall be limited and monitored by the Permittee as specified below:

| EFFLUENT CHARACTERISTICS | LIMITS | | MONITORING REQUIREMENTS | | |
|---|---|---|---|---|---|
| | Monthly Average | Daily Maximum | Measurement Frequency | Sample Type | Sample Location[1] |
| Flow | | | Per discharge event | Instantaneous | E |
| Total Copper | 1.0 mg/L | 1.0 mg/L | Per discharge event | Grab | E |
| Total Iron | 1.0 mg/L | 1.0 mg/L | Per discharge event | Grab | E |

**Notes:**

1. Sample locations: E - Effluent, prior to mixing with any other wastestream.

The chemical metal cleaning waste shall be discharged to the new ash pond or old ash pond (with prior DWQ approval) after pretreatment.

There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. There shall be no discharge of floating solids or visible foam in other than trace amounts.

## A. (4). EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting until expiration, the Permittee is authorized to discharge from **Internal Outfall 005 (treated FGD wet scrubber wastewater)**. Such discharges shall be limited and monitored by the Permittee as specified below:

| EFFLUENT CHARACTERISTICS | LIMITS | | MONITORING REQUIREMENTS | | |
|---|---|---|---|---|---|
| | Monthly Average | Daily Maximum | Measurement Frequency | Sample Type | Sample Location[1] |
| Flow | | | Monthly | Instantaneous | E |
| Total Suspended Solids | | | Monthly | Grab | E |
| Total Mercury | | | Monthly | Grab | E |
| Total Arsenic | | | Monthly | Grab | E |
| Total Beryllium | | | Monthly | Grab | E |
| Total Cadmium | | | Monthly | Grab | E |
| Total Chlorides | | | Monthly | Grab | E |
| Total Chromium | | | Monthly | Grab | E |
| Total Copper | | | Monthly | Grab | E |
| Total Fluoride | | | Monthly | Grab | E |
| Total Lead | | | Monthly | Grab | E |
| Total Manganese | | | Monthly | Grab | E |
| Total Nickel | | | Monthly | Grab | E |
| Total Selenium | | | Monthly | Grab | E |
| Total Silver | | | Monthly | Grab | E |
| Total Thallium | | | Monthly | Grab | E |
| Total Zinc | | | Monthly | Grab | E |

**Notes:**

1. Sample locations: E – Effluent from the constructed wetlands treatment system prior to discharge to the secondary settling basin.

*All flows shall be reported on monthly DMRs. Should no flow occur during a given month, the words "No Flow" shall be clearly written on the front of the DMR. All samples shall be representative of the discharge.*

## A. (5). STORMWATER MONITORING REQUIREMENTS/ Qualitative Monitoring

Qualitative monitoring requires a qualitative inspection of each **stormwater** outfall, regardless of representative outfall status, for the purpose of evaluating the effectiveness of the Stormwater Pollution Prevention Plan and assessing new sources of stormwater pollution. No analytical tests are required. Qualitative monitoring of stormwater outfalls does not need to be performed during a representative storm event.

| Stormwater Discharge Characteristics | Measurement Frequency[1] | Sample Location[2] |
|---|---|---|
| Color | Semi-Annual | SDO |
| Odor | Semi-Annual | SDO |
| Clarity | Semi-Annual | SDO |
| Floating Solids | Semi-Annual | SDO |
| Suspended Solids | Semi-Annual | SDO |
| Foam | Semi-Annual | SDO |
| Oil Sheen | Semi-Annual | SDO |
| Other obvious indicators of stormwater pollution | Semi-Annual | SDO |

**Notes:**

1. Measurement Frequency. The first qualitative monitoring event during the term of the permit must be performed during the initial analytical monitoring event. All subsequent qualitative monitoring will be performed twice per year, once in the spring (April - June) and once in the fall (September - November).
2. Sample Location: SDO- Stormwater Discharge Outfalls SW-1 through SW-6.

## A. (6). CHRONIC TOXICITY PERMIT LIMIT (QRTRLY)-- Outfall 001 (to French Broad River)

The effluent discharge shall at no time exhibit observable inhibition of reproduction or significant mortality to *Ceriodaphnia dubia* at an effluent concentration of **1.9%**. The permit holder shall perform at a minimum, *quarterly* monitoring using test procedures outlined in the "North Carolina *Ceriodaphnia* Chronic Effluent Bioassay Procedure," Revised February 1998, or subsequent versions or "North Carolina Phase II Chronic Whole Effluent Toxicity Test Procedure" (Revised-February 1998) or subsequent versions. The tests will be performed during the months of January, April, July, and October. Effluent sampling for this testing shall be performed at the NPDES permitted final effluent discharge below all treatment processes.

If the test procedure performed as the first test of any single quarter results in a failure or ChV below the permit limit, then multiple-concentration testing shall be performed at a minimum, in each of the two following months as described in "North Carolina Phase II Chronic Whole Effluent Toxicity Test Procedure" (Revised-February 1998) or subsequent versions.

The chronic value for multiple concentration tests will be determined using the geometric mean of the highest concentration having no detectable impairment of reproduction or survival and the lowest concentration that does have a detectable impairment of reproduction or survival. The definition of "detectable impairment," collection methods, exposure regimes, and further statistical methods are specified in the "North Carolina Phase II Chronic Whole Effluent Toxicity Test Procedure" (Revised-February 1998) or subsequent versions.

All toxicity testing results required as part of this permit condition will be entered on the Effluent Discharge Monitoring Form (MR-1) for the months in which tests were performed, using the parameter code TGP3B for the pass/fail results and THP3B for the Chronic Value. Completed Aquatic Toxicity Test Forms shall be filed with the Environmental Sciences Branch no later than 30 days after the end of the reporting period for which the report is made. Additionally, DWQ Form AT-3 (original) is to be sent to the following address:

Attention: Environmental Sciences Section
North Carolina Division of Water Quality
1621 Mail Service Center
Raleigh, North Carolina 27699-1621

Test data shall be complete, accurate, include all supporting chemical/physical measurements and all concentration/response data, and be certified by laboratory supervisor and ORC or approved designate signature. Total residual chlorine of the effluent toxicity sample must be measured and reported if chlorine is employed for disinfection of the waste stream.

Should there be no discharge of flow from the facility during a month in which toxicity monitoring is required, the permittee will complete the information located at the top of the aquatic toxicity (AT) test form indicating the facility name, permit number, pipe number, county, and the month/year of the report with the notation of "No Flow" in the comment area of the form. The report shall be submitted to the Environmental Sciences Branch at the address cited above.

Should the permittee fail to monitor during a month in which toxicity monitoring is required, monitoring will be required during the following month. Should any test data from this monitoring requirement or tests performed by the North Carolina Division of Water Quality indicate potential impacts to the receiving stream, this permit may be re-opened and modified to include alternate monitoring requirements or limits.

NOTE: Failure to achieve test conditions as specified in the cited document, such as minimum control organism survival, minimum control organism reproduction, and appropriate environmental controls, shall constitute an invalid test and will require immediate follow-up testing to be completed no later than the last day of the month following the month of the initial monitoring.

## A. (7). SECTION 316(a) THERMAL VARIANCE REAPPLICATION

The thermal variance granted under Section 316(a) terminates on expiration of the NPDES permit. Should the permittee wish a continuation of its 316(a) thermal variance beyond the term of this permit, reapplication for such continuation shall be submitted in accordance with 40 CFR Part 125, Subpart H and Section 122.21(m)(6) not later than 180 days prior to permit expiration. Reapplication shall include a basis for continuation such as a) plant operating conditions and load factors are unchanged and are expected to remain so for the term of the reissued permit; b) there are no changes to plant discharges or other discharges in the plant site area which could interact with the thermal discharges; and c) there are no changes to the biotic community of the receiving waterbody which would impact the previous variance determination.

## A. (8). SPECIATION OF SELENIUM

The permittee shall speciate selenium to determine the presence of selenite and selenate in the effluent for Outfall 001. This monitoring shall be conducted monthly (as part of the required monthly sampling). Selenate and selenite shall be reported as an addendum to the discharge monitoring report (DMR) form (total selenium is required to be reported on the DMR form). The percentage of total selenium that each speciated element comprises shall also be reported on the addendum to the DMR. This information will assist the Division in determining the most prevalent form for selenium.

## A. (9). TOXICITY RE-OPENER CONDITION

This permit shall be modified, or revoked and reissued to incorporate toxicity limitations and monitoring requirements in the event toxicity testing or other studies conducted on the effluent or receiving stream indicate that detrimental effects may be expected in the receiving stream as a result of this discharge.

## A. (10). STORMWATER POLLUTION PREVENTION PLAN

The permittee shall develop a Stormwater Pollution Prevention Plan, herein after referred to as the Plan, for direct discharges of stormwater to surface waters (i.e., via outfalls SW-1 through SW-6 located along the vehicle access roads). The Plan shall be considered public information in accordance with Part II, Section E.10. of this permit. The Plan shall include, at a minimum, the following items:

a. Site Plan: The site plan shall provide a description of the physical facility and the potential pollutant sources which may be expected to contribute to contamination of regulated stormwater discharges. The site plan shall contain the following:

   (1) A general location map (USGS quadrangle map, or appropriately drafted equivalent map), showing the facility's location in relation to transportation routes and surface waters, and the name of the receiving water(s) to which the stormwater outfall(s) discharges. If the discharge is to a municipal separate storm sewer system, the name of the municipality and the ultimate receiving waters, and accurate latitude and longitude of the point(s) of discharge must be shown.

(2) A narrative description of storage practices, loading and unloading activities, outdoor process areas, dust or particulate generating or control processes, and waste disposal practices.

(3) A site map (or series of maps) drawn to scale with the distance legend indicating location of industrial activities (including storage of materials, disposal areas, process areas, and loading and unloading areas), drainage structures, drainage areas for each outfall and activities occurring in the drainage area, building locations and impervious surfaces, the percentage of each drainage area that is impervious. For each outfall, a narrative description of the potential pollutants which could be expected to be present in the regulated stormwater discharge.

(4) A list of significant spills or leaks of pollutants that have occurred at the facility during the 3 previous years and any corrective actions taken to mitigate spill impacts.

(5) Certification that the stormwater outfalls have been evaluated for the presence of non-stormwater discharges. The certification statement will be signed in accordance with the requirements found in Part II, Section B.11.

b. Stormwater Management Plan: The stormwater management plan shall contain a narrative description of the materials management practices employed which control or minimize the exposure of significant materials to stormwater, including structural and non-structural measures. The stormwater management plan, at a minimum, shall incorporate the following:

(1) A study addressing the technical and economic feasibility of changing the methods of operations and/or storage practices to eliminate or reduce exposure of materials and processes to stormwater. Wherever practicable the permittee should consider covering storage areas, material handling operations, manufacturing or fueling operations to prevent materials exposure to stormwater. In areas where elimination of exposure is not practicable, the stormwater management plan shall document the feasibility of diverting the stormwater runoff away from areas of potential contamination.

(2) A schedule to provide secondary containment for bulk storage of liquid materials, storage of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) water priority chemicals, or storage of hazardous materials to prevent leaks and spills from contaminating stormwater runoff. If the secondary containment devices are connected directly to stormwater conveyance systems, the connection shall be controlled by manually activated valves or other similar devices [which shall be secured with a locking mechanism] and any stormwater that accumulates in the containment area shall be at a minimum visually observed prior to release of the accumulated stormwater. Accumulated stormwater shall be released if found to be uncontaminated. Records documenting the individual making the observation, the description of the accumulated stormwater and the date and time of the release shall be kept for a period of five years.

(3) A narrative description of Best Management Practices (BMPs) to be considered such as, but not limited to, oil and grease separation, debris control, vegetative filter strips, infiltration and stormwater detention or retention, where necessary. The need for structural BMPs shall be based on the assessment of potential of sources contributing significant quantities of pollutants to stormwater discharges and data collected through monitoring of stormwater discharges.

(4) Inspection schedules of stormwater conveyances and controls and measures to be taken to limit or prevent erosion associated with the stormwater systems.

c. Spill Prevention and Response Plan: The Spill Prevention and Response Plan shall incorporate a risk assessment of potential pollutant sources based on a materials inventory of the facility. Facility personnel (or team) responsible for implementing the plan shall be identified in the plan. A responsible person shall be on-site at all times during facility operations that have the potential to contaminate stormwater runoff through spills or exposure of materials associated with the facility operations.

d. Preventative Maintenance and Good Housekeeping Program: A preventative maintenance program shall be developed. The program shall document schedules of inspections and maintenance activities of stormwater control systems, plant equipment and systems. Inspection of material handling areas and regular cleaning schedules of these areas shall be incorporated into the program.

e. Training schedules shall be developed and training provided at a minimum on an annual basis on proper spill response and cleanup procedures and preventative maintenance activities for all personnel involved in any of the facility's operations that have the potential to contaminate stormwater runoff. Facility personnel (or team) responsible for implementing the training shall be identified in the plan.

f. The Stormwater Pollution Prevention Plan shall identify a specific position(s) responsible for the overall coordination, development, implementation, and revision to the Plan. Responsibilities for all components of the Plan shall be documented and position(s) assignments provided.

g. Plan Amendment: The permittee shall amend the Plan whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of pollutants via a point source to surface waters. The Stormwater Pollution Prevention Plan shall be reviewed and updated on an annual basis.

The director may notify the permittee when the Plan does not meet one or more of the minimum requirements of the permit. Within 30 days of such notice, the permittee shall submit a time schedule to the Director for modifying the Plan to meet minimum requirements. The permittee shall provide certification in writing (in accordance with Part III, Standard Conditions, Section B.11.) to the Director that the changes have been made.

h. Facility Inspections: Inspections of the facility and all stormwater systems shall occur at a minimum on a semiannual schedule, once in the fall (September - November) and once during the spring (April - June). The inspection and any subsequent maintenance activities performed shall be documented, recording date and time of inspection, individual(s) making the inspection and a narrative description of the facility's stormwater control systems, plant equipment and systems. Records of these inspections shall be incorporated into the Stormwater Pollution Prevention Plan.

Visual monitoring as required in A. (5) Stormwater Monitoring Requirements/Qualitative Monitoring shall be performed in addition to facility inspections.

i. Implementation: Implementation of the Plan shall include documentation of all monitoring, measurements, inspections, maintenance activities and training provided to employees, including the log of the sampling data. Activities taken to implement BMPs associated with the industrial activities, including vehicle maintenance activities, must also be recorded. All required documentation shall be kept on-site for a period of five years and made available to the Director or his authorized representative immediately upon request.

## A. (11). STORMWATER MINIMUM MONITORING AND REPORTING REQUIREMENTS

Minimum monitoring and reporting requirements are as follows unless otherwise approved in writing by the Director of the Division of Water Quality:

a. If a facility has multiple discharge locations with substantially identical stormwater discharges that are required to be sampled, the permittee may petition the Director for representative outfall status. If it is established that the stormwater discharges are substantially identical and the permittee is granted representative outfall status, then sampling requirements may be performed at a reduced number of outfalls.

b. Visual monitoring for color, odor, solids, foam, outfall staining, visible sheens and dry weather flow shall be performed at all stormwater discharge outfall locations. All visual monitoring shall be documented and records maintained with the Stormwater Pollution Prevention Plan. The initial visual monitoring event shall be performed simultaneously with the first analytical monitoring event and documentation of only this initial visual monitoring event shall be submitted along with the required analytical monitoring submittal.

c. For purposes of the stormwater sampling required in this permit, all samples shall be collected from a discharge resulting from a representative storm event (See definitions in Part II, Section A). Failure to monitor storm events in accordance with the specified frequency shall constitute a violation of this permit. If the stormwater runoff is controlled by a detention pond, the following sampling requirements shall apply:

(1) If the detention pond detains the runoff generated by one inch of rainfall for 24 hours, visual observations for color, foam, outfall staining, visible sheens and dry weather flow are required, but analytical sampling shall not be required.

(2) If the detention pond discharges only in response to a storm event exceeding a 25-year, 24-hour storm, the pond shall be considered a non-discharging stormwater control system and not subject to NPDES requirements, unless the discharge causes a violation of water quality standards.

d. Samples analyzed in accordance with the terms of this permit shall be submitted on forms approved by the Director no later than January 31 for the previous year in which sampling was required to be performed.

e. Analytical results from sampling during the final year of the permit term shall be submitted with the permit renewal application.

f. This permit regulates stormwater discharges associated with industrial activity. Non-stormwater discharges which shall be allowed in the stormwater conveyance system are:

(1) All other discharges that are authorized by an NPDES permit.

(2) Foundation drains, air-conditioner condensate without added chemicals, springs, waterline and fire hydrant flushing, water from footing drains, flows from riparian habitats and wetlands, fire-fighting training and fire system testing.

(3) Discharges resulting from fire-fighting.

g. If the storm event monitored and reported in accordance with this permit coincides with a non-stormwater discharge, the permittee shall separately monitor and report all parameters as required under the non-stormwater portion of this permit and provide this information with the stormwater discharge monitoring report.

## A. (12). FISH TISSUE SAMPLING

Progress Energy shall conduct fish tissue sampling for Mercury and Selenium on an annual basis. The fish tissue sampling plan shall be approved by the Division's Environmental Sciences Section prior to commencement of sampling.

## Section B. Schedule of Compliance

1. The permittee shall comply with Final Effluent Limitations specified for discharges in accordance with the following schedule:

   Beginning on the effective date of the permit

# PART II
# STANDARD CONDITIONS FOR NPDES PERMITS

## Section A. Definitions

2/Month
Samples are collected twice per month with at least ten calendar days between sampling events.

3/Week
Samples are collected three times per week on three separate calendar days.

Act or "the Act"
The Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 USC 1251, et. seq.

Annual Average
The arithmetic mean of all "daily discharges" of a pollutant measured during the calendar year. In the case of fecal coliform, the geometric mean of such discharges.

Arithmetic Mean
The summation of the individual values divided by the number of individual values.

Bypass
The known diversion of waste streams from any portion of a treatment facility including the collection system, which is not a designed or established or operating mode for the facility.

Calendar Day
The period from midnight of one day until midnight of the next day. However, for purposes of this permit, any consecutive 24-hour period that reasonably represents the calendar day may be used for sampling.

Calendar Quarter
One of the following distinct periods: January through March, April through June, July through September, and October through December.

Composite Sample
A sample collected over a 24-hour period by continuous sampling or combining grab samples of at least 100 ml in such a manner as to result in a total sample representative of the wastewater discharge during the sample period. The Director may designate the most appropriate method (specific number and size of aliquots necessary, the time interval between grab samples, etc.) on a case-by-case basis. Samples may be collected manually or automatically. Composite samples may be obtained by the following methods:

(1) Continuous: a single, continuous sample collected over a 24-hour period proportional to the rate of flow.
(2) Constant time/variable volume: a series of grab samples collected at equal time intervals over a 24 hour period of discharge and combined proportional to the rate of flow measured at the time of individual sample collection, or
(3) Variable time/constant volume: a series of grab samples of equal volume collected over a 24 hour period with the time intervals between samples determined by a preset number of gallons passing the sampling point. Flow measurement between sample intervals shall be determined by use of a flow recorder and totalizer, and the preset gallon interval between sample collection fixed at no greater than 1/24 of the expected total daily flow at the treatment system, or
(4) Constant time/constant volume: a series of grab samples of equal volume collected over a 24-hour period at a constant time interval. **This method may only be used in situations where effluent flow rates vary less than 15 percent.** The grab samples shall be taken at intervals of no greater than 20 minutes apart during any 24-hour period and must be of equal size and of no less than 100 milliliters. **Use of this method requires prior approval by the Director.**

In accordance with (4) above, influent grab samples shall not be collected more than once per hour. Effluent grab samples shall not be collected more than once per hour except at wastewater treatment systems having a detention time of greater than 24 hours. In such cases, effluent grab samples may be collected at intervals evenly spaced over the 24-hour period that are equal in number of hours to the detention time of the system in number of days. However, the interval between effluent grab samples may not exceed six hours nor the number of samples less than four during a 24-hour sampling period.

Continuous flow measurement
Flow monitoring that occurs without interruption throughout the operating hours of the facility. Flow shall be monitored continually except for the infrequent times when there may be no flow or for infrequent maintenance activities on the flow device.

Daily Discharge
The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants measured in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. The "daily discharge" concentration comprises the mean concentration for a 24-hour sampling period as either a composite sample concentration or the arithmetic mean of all grab samples collected during that period. (40 CFR 122.2)

Daily Maximum
The highest "daily discharge" for conventional and other non-toxicant parameters. NOTE: Permittees may not submit a "daily average" calculation [for determining compliance with permit limits] for toxicants. See the relevant Federal effluent guideline[s] for the appropriate calculation interval.

Daily Sampling
Parameters requiring daily sampling shall be sampled 5 out of every 7 days per week unless otherwise specified in the permit. The Division expects that sampling shall be conducted on weekdays except where holidays or other disruptions of normal operations prevent weekday sampling. If sampling is required for all seven days of the week for any permit parameter(s), that requirement will be so noted on the Effluent Limitations and Monitoring Page(s).

DWQ or "the Division"
The Division of Water Quality, Department of Environment and Natural Resources.

EMC
The North Carolina Environmental Management Commission.

Facility Closure
The cessation of wastewater treatment at a permitted facility, or the cessation of all activities that require coverage under the NPDES. Completion of facility closure will allow this permit to be rescinded.

Geometric Mean
The Nth root of the product of the individual values where N = the number of individual values. For purposes of calculating the geometric mean, values of "0" (or "< [detection level]") shall be considered = 1.

Grab Sample
Individual samples of at least 100 ml collected over a period of time not exceeding 15 minutes. Grab samples can be collected manually. Grab samples must be representative of the discharge (or the receiving stream, for instream samples).

Hazardous Substance
Any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act.

Instantaneous flow measurement
A measure of flow taken at the time of sampling, when both the sample and flow will be representative of the total discharge.

Monthly Average (concentration limit)
The arithmetic mean of all "daily discharges" of a pollutant measured during the calendar month. In the case of fecal coliform, the geometric mean of such discharges.

Permit Issuing Authority
The Director of the Division of Water Quality.

Quarterly Average (concentration limit)
The average of all samples taken over a calendar quarter.

Severe property damage
Substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage excludes economic loss caused by delays in production.

Toxic Pollutant:
Any pollutant listed as toxic under Section 307(a)(l) of the Clean Water Act.

Upset
An incident beyond the reasonable control of the Permittee causing unintentional and temporary noncompliance with permit effluent limitations and/or monitoring requirements. An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

Weekly Average (concentration limit)
The arithmetic mean of all "daily discharges" of a pollutant measured during the calendar week. In the case of fecal coliform, the geometric mean of such discharges.

## Section B. General Conditions

1. Duty to Comply
   The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application [40 CFR 122.41].

   a. 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 the permit has not yet been modified to incorporate the requirement.

   b. The Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed $25,000 per day for each violation. [40 CFR 122.41 (a)(2)]

   c. The Clean Water Act provides that any person who *negligently* violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment of not more than 2 years, or both. [40 CFR 122.41 (a) (2)]

d. Any person who *knowingly* violates such sections, or such conditions or limitations is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment of not more than 6 years, or both. [40 CFR 122.41 (a) (2)]

e. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than $250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions. [40 CFR 122.41 (a) (2)]

f. Under state law, a civil penalty of not more than $25,000 per violation may be assessed against any person who violates or fails to act in accordance with the terms, conditions, or requirements of a permit. [North Carolina General Statutes § 143-215.6A]

g. Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed $10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed $25,000. Penalties for Class II violations are not to exceed $10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed $125,000. [40 CFR 122.41 (a) (3)]

2. 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 [40 CFR 122.41 (d)].

3. Civil and Criminal Liability
Except as provided in permit conditions on "Bypassing" (Part II. C. 4), "Upsets" (Part II. C. 5) and "Power Failures" (Part II. C. 7), nothing in this permit shall be construed to relieve the Permittee from any responsibilities, liabilities, or penalties for noncompliance pursuant to NCGS 143-215.3, 143-215.6 or Section 309 of the Federal Act, 33 USC 1319. Furthermore, the Permittee is responsible for consequential damages, such as fish kills, even though the responsibility for effective compliance may be temporarily suspended.

4. 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 to under NCGS 143-215.75 et seq. or Section 311 of the Federal Act, 33 USG 1321. Furthermore, the Permittee is responsible for consequential damages, such as fish kills, even though the responsibility for effective compliance may be temporarily suspended.

5. Property Rights
The issuance of 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 any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations [40 CFR 122.41 (g)].

6. Onshore or Offshore Construction
This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

7. Severability

The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby [NCGS 150B-23].

8. Duty to Provide Information
The Permittee shall furnish to the Permit Issuing Authority, within a reasonable time, any information which the Permit Issuing Authority may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee shall also furnish to the Permit Issuing Authority upon request, copies of records required by this permit [40 CFR 122.41 (h)].

9. Duty to Reapply
If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit [40 CFR 122.41 (b)].

10. Expiration of Permit
The Permittee is not authorized to discharge after the expiration date. In order to receive automatic authorization to discharge beyond the expiration date, the Permittee shall submit such information, forms, and fees as are required by the agency authorized to issue permits no later than 180 days prior to the expiration date. Any Permittee that has not requested renewal at least 180 days prior to expiration, or any Permittee that does not have a permit after the expiration and has not requested renewal at least 180 days prior to expiration, will subject the Permittee to enforcement procedures as provided in NCGS 143-215.6 and 33 USC 1251 et. seq.

11. Signatory Requirements
All applications, reports, or information submitted to the Permit Issuing Authority shall be signed and certified [40 CFR 122.41 (k)].

a. **All permit applications shall be signed as follows:**
   (1) For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (a) 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 (b) 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 .
   (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
   (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official [40 CFR 122.22].

b. All reports required by the permit and other information requested by the Permit Issuing Authority shall be signed by a person described in paragraph a. above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
   1. The authorization is made in writing by a person described above;
   2. The authorization specified 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 well field, superintendent, a 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
   3. The written authorization is submitted to the Permit Issuing Authority [40 CFR 122.22]

c. Changes to authorization: If an authorization under paragraph (b) of this section 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 paragraph (b) of this section must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative [40 CFR 122.22]

d. Certification. Any person signing a document under paragraphs a. or b. of this section shall make the following certification [40 CFR 122.22]:
*"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 fines and imprisonment for knowing violations."*

12. Permit Actions
This permit 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 [40 CFR 122.41 (f)].

13. Permit Modification, Revocation and Reissuance, or Termination
The issuance of this permit does not prohibit the permit issuing authority from reopening and modifying the permit, revoking and reissuing the permit, or terminating the permit as allowed by the laws, rules, and regulations contained in Title 40, Code of Federal Regulations, Parts 122 and 123; Title 15A of the North Carolina Administrative Code, Subchapter 2H .0100; and North Carolina General Statute 143-215.1 et. al.

14. Annual Administering and Compliance Monitoring Fee Requirements
The Permittee must pay the annual administering and compliance monitoring fee within thirty days after being billed by the Division. Failure to pay the fee in a timely manner in accordance with 15A NCAC 2H.0105 (b) (2) may cause this Division to initiate action to revoke the permit.

## Section C. Operation and Maintenance of Pollution Controls

1. Certified Operator
Upon classification of the permitted facility by the Certification Commission, the Permittee shall employ a certified water pollution control treatment system operator in responsible charge (ORC) of the water pollution control treatment system. Such operator must hold a certification of the grade equivalent to or greater than the classification assigned to the water pollution control treatment system by the Certification Commission. The Permittee must also employ one or more certified Back-up ORCs who possess a currently valid certificate of the type of the system. Back-up ORCs must possess a grade equal to (or no more than one grade less than) the grade of the system [15A NCAC 8G.0201].

The ORC of each Class I facility must:
- Visit the facility at least weekly
- Comply with all other conditions of 15A NCAC 8G.0204.

The ORC of each Class II, III and IV facility must:
- Visit the facility at least five days per week, excluding holidays
- Properly manage and document daily operation and maintenance of the facility
- Comply with all other conditions of 15A NCAC 8G.0204.

Once the facility is classified, the Permittee shall submit a letter to the Certification Commission designating the operator in responsible charge:
a. Within 60 calendar days prior to wastewater being introduced into a new system

b. Within 120 calendar days of:
   - Receiving notification of a change in the classification of the system requiring the designation of a new ORC and back-up ORC
   - A vacancy in the position of ORC or back-up ORC.

2. Proper Operation and Maintenance
The Permittee shall at all times provide the operation and maintenance resources necessary to operate the existing facilities at optimum efficiency. 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 adequate laboratory controls and appropriate quality assurance procedures. This provision requires the Permittee to install and operate backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit [40 CFR 122.41 (e)].

3. Need to Halt or Reduce 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 condition of this permit [40 CFR 122.41 (c)].

4. Bypassing of Treatment Facilities
a. Bypass not exceeding limitations [40 CFR 122.41 (m) (2)]
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 Paragraphs b. and c. of this section.

b. Notice [40 CFR 122.41 (m) (3)]
(I) Anticipated bypass. If the Permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass; including an evaluation of the anticipated quality and effect of the bypass.
(2) Unanticipated bypass. The Permittee shall submit notice of an unanticipated bypass as required in Part II. E. 6. (24-hour notice).

c. Prohibition of Bypass
(I) Bypass from the treatment facility is prohibited and the Permit Issuing Authority may take enforcement action against a Permittee for bypass, unless:
(A) Bypass was unavoidable to prevent loss of life, personal injury or severe property damage;
(B) 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 backup 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
(C) The Permittee submitted notices as required under Paragraph b. of this section.

(2) Bypass from the collection system is prohibited and the Permit Issuing Authority may take enforcement action against a Permittee for a bypass as provided in any current or future system-wide collection system permit associated with the treatment facility.

(3) The Permit Issuing Authority may approve an anticipated bypass, after considering its adverse effects, if the Permit Issuing Authority determines that it will meet the three conditions listed above in Paragraph c. (I) of this section.

5. Upsets
a. Effect of an upset [40 CFR 122.41 (n) (2)]: An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph b. of this condition are met. No determination made during administrative review of claims that

noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

b. Conditions necessary for a demonstration of upset: A Permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
(1) An upset occurred and that the Permittee can identify the cause(s) of the upset;
(2) The Permittee facility was at the time being properly operated; and
(3) The Permittee submitted notice of the upset as required in Part II. E. 6. (b) of this permit.
(4) The Permittee complied with any remedial measures required under Part II. B. 2. of this permit.

c. Burden of proof [40 CFR 122.41 (n) (4)]: The Permittee seeking to establish the occurrence of an upset has the burden of proof in any enforcement proceeding.

6. Removed Substances
Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be utilized/disposed of in accordance with NCGS 143-215.1 and in a manner such as to prevent any pollutant from such materials from entering waters of the State or navigable waters of the United States. The Permittee shall comply with all existing Federal regulations governing the disposal of sewage sludge. Upon promulgation of 40 CFR Part 503, any permit issued by the Permit Issuing Authority for the utilization/disposal of sludge may be reopened and modified, or revoked and reissued, to incorporate applicable requirements at 40 CFR 503. The Permittee shall comply with applicable 40 CFR 503 Standards for the Use and Disposal of Sewage Sludge (when promulgated) within the time provided in the regulation, even if the permit is not modified to incorporate the requirement. The Permittee shall notify the Permit Issuing Authority of any significant change in its sludge use or disposal practices.

7. Power Failures
The Permittee is responsible for maintaining adequate safeguards (as required by 15A NCAC 2H.0124 – Reliability) to prevent the discharge of untreated or inadequately treated wastes during electrical power failures either by means of alternate power sources, standby generators or retention of inadequately treated effluent.

## Section D. Monitoring and Records

1. Representative Sampling
Samples collected and measurements taken, as required herein, shall be characteristic of the volume and nature of the permitted discharge. Samples collected at a frequency less than daily shall be taken on a day and time that is characteristic of the discharge over the entire period the sample represents. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Permit Issuing Authority [40 CFR 122.41 (j)].

2. Reporting
Monitoring results obtained during the previous month(s) shall be summarized for each month and reported on a monthly Discharge Monitoring Report (DMR) Form (MR 1, 1.1, 2, 3) or alternative forms approved by the Director, postmarked no later than the last calendar day of the month following the completed reporting period.

The first DMR is due on the last day of the month following the issuance of the permit or in the case of a new facility, on the last day of the month following the commencement of discharge. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the following address:

NC DENR / Division of Water Quality / Water Quality Section
**ATTENTION: Central Files**
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

3. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from the true discharge rates throughout the range of expected discharge volumes. Flow measurement devices shall be accurately calibrated at a minimum of once per year and maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. The Director shall approve the flow measurement device and monitoring location prior to installation.

Once-through condenser cooling water flow monitored by pump logs, or pump hour meters as specified in Part I of this permit and based on the manufacturer's pump curves shall not be subject to this requirement.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to the EMC regulations (published pursuant to NCGS 143-215.63 et. seq.), the Water and Air Quality Reporting Acts, and to regulations published pursuant to Section 304(g), 33 USC 1314, of the Federal Water Pollution Control Act (as Amended), and 40 CFR 136; or in the case of sludge use or disposal, approved under 40 CFR 136, unless otherwise specified in 40 CFR 503, unless other test procedures have been specified in this permit [40 CFR 122.41].

To meet the intent of the monitoring required by this permit, all test procedures must produce minimum detection and reporting levels that are below the permit discharge requirements and all data generated must be reported down to the minimum detection or lower reporting level of the procedure. If no approved methods are determined capable of achieving minimum detection and reporting levels below permit discharge requirements, then the most sensitive (method with the lowest possible detection and reporting level) approved method must be used.

5. Penalties for Tampering

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or both [40 CFR 122.41].

6. Records Retention

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 (or longer as required by 40 CFR 503), the Permittee shall retain records of all monitoring information, including:

- all calibration and maintenance records
- all original strip chart recordings for continuous monitoring instrumentation
- copies of all reports required by this permit
- copies of all data used to complete the application for this permit

These records or copies shall be maintained for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time [40 CFR 122.41].

7. Recording Results

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information [40 CFR 122.41]:

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) 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.

8. Inspection and Entry
The Permittee shall allow the Director, or an authorized representative (including an authorized contractor acting as a representative of the Director), upon the presentation of credentials and other documents as may be required by law, to;

a. 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;
b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location [40 CFR 122.41 (i)].

## Section E. Reporting Requirements

1. Change in Discharge
All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.

2. Planned Changes
The Permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility [40 CFR 122.41 (l)]. Notice is required only when:

a. The alteration or addition to a permitted facility may meet one of the criteria for new sources at 40 CFR 122.29 (b); or
b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42 (a) (l).
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.

3. Anticipated Noncompliance
The Permittee shall give advance notice to the Director of any planned changes to the permitted facility or other activities that might result in noncompliance with the permit [40 CFR 122.41 (l) (2)].

4. Transfers
This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to document the change of ownership. Any such action may incorporate other requirements as may be necessary under the Clean Water Act [40 CFR 122.41 (l) (3)].

5. Monitoring Reports
Monitoring results shall be reported at the intervals specified elsewhere in this permit [40 CFR 122.41 (l) (4)].

a. Monitoring results must be reported on a Discharge Monitoring Report (DMR) (See Part II. D. 2) or forms provided by the Director for reporting results of monitoring of sludge use or disposal practices.
b. If the Permittee monitors any pollutant more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of the data submitted on the DMR.

6. Twenty-four Hour Reporting
   a. The Permittee shall report to the Director or the appropriate Regional Office any noncompliance that potentially threatens public health or the environment. Any information shall be provided orally within 24 hours from the time the Permittee became aware of the circumstances. A written submission shall also be provided within 5 days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance, and its cause; 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 steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance [40 CFR 122.41 (l) (6)].

   b. The Director may waive the written report on a case-by-case basis for reports under this section if the oral report has been received within 24 hours.

   c. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

7. Other Noncompliance
   The Permittee shall report all instances of noncompliance not reported under Part II. E. 5 and 6. of this permit at the time monitoring reports are submitted. The reports shall contain the information listed in Part II. E. 6. of this permit [40 CFR 122.41 (l) (7)].

8. Other Information
   Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information [40 CFR 122.41 (l) (8)].

9. Noncompliance Notification
   The Permittee shall report by telephone to either the central office or the appropriate regional office of the Division as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence or first knowledge of the occurrence of any of the following:

   a. Any occurrence at the water pollution control facility which results in the discharge of significant amounts of wastes which are abnormal in quantity or characteristic, such as the dumping of the contents of a sludge digester; the known passage of a slug of hazardous substance through the facility; or any other unusual circumstances.
   b. Any process unit failure, due to known or unknown reasons, that render the facility incapable of adequate wastewater treatment such as mechanical or electrical failures of pumps, aerators, compressors, etc.
   c. Any failure of a pumping station, sewer line, or treatment facility resulting in a by-pass directly to receiving waters without treatment of all or any portion of the influent to such station or facility.

   Persons reporting such occurrences by telephone shall also file a written report within 5 days following first knowledge of the occurrence.

10. Availability of Reports
    Except for data determined to be confidential under NCGS 143-215.3 (a)(2) or Section 308 of the Federal Act, 33 USC 1318, all reports prepared in accordance with the terms shall be available for public inspection at the offices of the Division. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NCGS 143-215.1 (b)(2) or in Section 309 of the Federal Act.

11. Penalties for Falsification of Reports
    The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of

not more than $25,000 per violation, or by imprisonment for not more than two years per violation, or by both [40 CFR 122.41].

12. Annual Performance Reports
Permittees who own or operate facilities that collect or treat municipal or domestic waste shall provide an annual report to the Permit Issuing Authority and to the users/customers served by the Permittee (NCGS 143-215.1C). The report shall summarize the performance of the collection or treatment system, as well as the extent to which the facility was compliant with applicable Federal or State laws, regulations and rules pertaining to water quality. The report shall be provided no later than sixty days after the end of the calendar or fiscal year, depending upon which annual period is used for evaluation.

# PART III
# OTHER REQUIREMENTS

**Section A. Construction**
The Permittee shall not commence construction of wastewater treatment facilities, nor add to the plant's treatment capacity, nor change the treatment process(es) utilized at the treatment plant unless the Division has issued an Authorization to Construct (AtC) permit. Issuance of an AtC will not occur until Final Plans and Specifications for the proposed construction have been submitted by the Permittee and approved by the Division.

**Section B. Groundwater Monitoring**
The Permittee shall, upon written notice from the Director, conduct groundwater monitoring as may be required to determine the compliance of this NPDES permitted facility with the current groundwater standards.

**Section C. Changes in Discharges of Toxic Substances**
The Permittee shall notify the Permit Issuing Authority as soon as it knows or has reason to believe (40 CFR 122.42):

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels";
   (1) One hundred micrograms per liter (100 µg/L);
   (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2.4-dinitrophenol and for 2-methyl-4.6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
   (3) Five times the maximum concentration value reported for that pollutant in the permit application.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels";
   (1) Five hundred micrograms per liter (500 µg/L);
   (2) One milligram per liter (1 mg/L) for antimony;
   (3) Ten times the maximum concentration value reported for that pollutant in the permit application.

**Section D. Evaluation of Wastewater Discharge Alternatives**
The Permittee shall evaluate all wastewater disposal alternatives and pursue the most environmentally sound alternative of the reasonably cost effective alternatives. If the facility is in substantial non-compliance with the terms and conditions of the NPDES permit or governing rules, regulations or laws, the Permittee shall submit a report in such form and detail as required by the Division evaluating these alternatives and a plan of action within 60 days of notification by the Division.

**Section E. Facility Closure Requirements**
The Permittee must notify the Division at least 90 days prior to the closure of any wastewater treatment system covered by this permit. The Division may require specific measures during deactivation of the system to prevent

adverse impacts to waters of the State. This permit cannot be rescinded while any activities requiring this permit continue at the permitted facility.

# PART IV
# SPECIAL CONDITIONS FOR MUNICIPAL FACILITIES

## Section A. Publicly Owned Treatment Works (POTWs)

All POTWs must provide adequate notice to the Director of the following:

1. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; and
2. Any substantial change in the volume or character of pollutants being introduced by an indirect discharger as influent to that POTW at the time of issuance of the permit.
3. For purposes of this paragraph, adequate notice shall include information on (1) the quality and quantity of effluent introduced into the POTW, and (2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

## Section B. Municipal Control of Pollutants from Industrial Users.

1. Effluent limitations are listed in Part I of this permit. Other pollutants attributable to inputs from industries using the municipal system may be present in the Permittee's discharge. At such time as sufficient information becomes available to establish limitations for such pollutants, this permit may be revised to specify effluent limitations for any or all of such other pollutants in accordance with best practicable technology or water quality standards.

2. Under no circumstances shall the Permittee allow introduction of the following wastes in the waste treatment system:
   a. Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
   b. Pollutants which will cause corrosive structural damage to the POTW, but in no case Discharges with pH lower than 5.0, unless the works is specifically designed to accommodate such Discharges;
   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference;
   d. Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a Discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
   e. Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40°C (104°F) unless the Division, upon request of the POTW, approves alternate temperature limits;
   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
   g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;
   h. Any trucked or hauled pollutants, except at discharge points designated by the POTW.

3. With regard to the effluent requirements listed in Part I of this permit, it may be necessary for the Permittee to supplement the requirements of the Federal Pretreatment Standards (40 CFR, Part 403) to ensure compliance by the Permittee with all applicable effluent limitations. Such actions by the Permittee may be necessary regarding some or all of the industries discharging to the municipal system.

4. The Permittee shall require any industrial discharges sending influent to the permitted system to meet Federal Pretreatment Standards promulgated in response to Section 307(b) of the Act. Prior to accepting wastewater from any significant industrial user, the Permittee shall either develop and submit to the

Division a Pretreatment Program for approval per 15A NCAC 2H .0907(a) or modify an existing Pretreatment Program per 15A NCAC 2H .0907(b).

5. This permit shall be modified, or alternatively, revoked and reissued, to incorporate or modify an approved POTW Pretreatment Program or to include a compliance schedule for the development of a POTW Pretreatment Program as required under Section 402(b)(8) of the Clean Water Act and implementing regulations or by the requirements of the approved State pretreatment program, as appropriate.

**Section C. Pretreatment Programs**

Under authority of sections 307(b) and (c) and 402(b)(8) of the Clean Water Act and implementing regulations 40 CFR Part 403, North Carolina General Statute 143-215.3 (14) and implementing regulations 15A NCAC 2H .0900, and in accordance with the approved pretreatment program, all provisions and regulations contained and referenced in the Pretreatment Program Submittal are an enforceable part of this permit.

The Permittee shall operate its approved pretreatment program in accordance with Section 402(b)(8) of the Clean Water Act, the Federal Pretreatment Regulations 40 CFR Part 403, the State Pretreatment Regulations 15A NCAC 2H .0900, and the legal authorities, policies, procedures, and financial provisions contained in its pretreatment program submission and Division approved modifications there of. Such operation shall include but is not limited to the implementation of the following conditions and requirements:

1. Sewer Use Ordinance (SUO)
   The Permittee shall maintain adequate legal authority to implement its approved pretreatment program.

2. Industrial Waste Survey (IWS)
   The Permittee shall update its Industrial Waste Survey (IWS) to include all users of the sewer collection system at least once every five years.

3. Monitoring Plan
   The Permittee shall implement a Division-approved Monitoring Plan for the collection of facility specific data to be used in a wastewater treatment plant Headworks Analysis (HWA) for the development of specific pretreatment local limits. Effluent data from the Plan shall be reported on the DMRs (as required by Part II, Section D, and Section E.5.).

4. Headworks Analysis (HWA) and Local Limits
   The Permittee shall obtain Division approval of a Headworks Analysis (HWA) at least once every five years, and as required by the Division. Within 180 days of the effective date of this permit (or any subsequent permit modification) the Permittee shall submit to the Division a written technical evaluation of the need to revise local limits (i.e., an updated HWA or documentation of why one is not needed) [40 CFR 122.44]. The Permittee shall develop, in accordance with 40 CFR 403.5(c) and 15A NCAC 2H .0909, specific Local Limits to implement the prohibitions listed in 40 CFR 403.5(a) and (b) and 15A NCAC 2H .0909.

5. Industrial User Pretreatment Permits (IUP) & Allocation Tables
   In accordance with NCGS 143-215.1, the Permittee shall issue to all significant industrial users, permits for operation of pretreatment equipment and discharge to the Permittee's treatment works. These permits shall contain limitations, sampling protocols, reporting requirements, appropriate standard and special conditions, and compliance schedules as necessary for the installation of treatment and control technologies to assure that their wastewater discharge will meet all applicable pretreatment standards and requirements. The Permittee shall maintain a current Allocation Table (AT) which summarizes the results of the Headworks Analysis (HWA) and the limits from all Industrial User Pretreatment Permits (IUP). Permitted IUP loadings for each parameter cannot exceed the treatment capacity of the POTW as determined by the HWA.

6. Authorization to Construct (AtC)
The Permittee shall ensure that an Authorization to Construct permit (AtC) is issued to all applicable industrial users for the construction or modification of any pretreatment facility. Prior to the issuance of an AtC, the proposed pretreatment facility and treatment process must be evaluated for its capacity to comply with all Industrial User Pretreatment Permit (IUP) limitations.

7. POTW Inspection & Monitoring of their SIUs
The Permittee shall conduct inspection, surveillance, and monitoring activities as described in its Division approved pretreatment program in order to determine, independent of information supplied by industrial users, compliance with applicable pretreatment standards. The Permittee must:
   a. Inspect all Significant Industrial Users (SIUs) at least once per calendar year; and
   b. Sample all Significant Industrial Users (SIUs) at least twice per calendar year for all permit-limited pollutants, once during the period from January 1 through June 30 and once during the period from July 1 through December 31, except for organic compounds which shall be sampled once per calendar year;

8. SIU Self Monitoring and Reporting
The Permittee shall require all industrial users to comply with the applicable monitoring and reporting requirements outlined in the Division-approved pretreatment program, the industry's pretreatment permit, or in 15A NCAC 2H .0908.

9. Enforcement Response Plan (ERP)
The Permittee shall enforce and obtain appropriate remedies for violations of all pretreatment standards promulgated pursuant to section 307(b) and (c) of the Clean Water Act (40 CFR 405 et. seq.), prohibitive discharge standards as set forth in 40 CFR 403.5 and 15A NCAC 2H .0909, and specific local limitations. All enforcement actions shall be consistent with the Enforcement Response Plan (ERP) approved by the Division.

10. Pretreatment Annual Reports (PAR)
The Permittee shall report to the Division in accordance with 15A NCAC 2H .0908. In lieu of submitting annual reports, Modified Pretreatment Programs developed under 15A NCAC 2H .0904 (b) may be required to meet with Division personnel periodically to discuss enforcement of pretreatment requirements and other pretreatment implementation issues.

For all other active pretreatment programs, the Permittee shall submit two copies of a Pretreatment Annual Report (PAR) describing its pretreatment activities over the previous twelve months to the Division at the following address:

NC DENR / DWQ / Pretreatment Unit
1617 Mail Service Center
Raleigh, NC 27699-1617

These reports shall be submitted according to a schedule established by the Director and shall contain the following:

a.) Narrative
A brief discussion of reasons for, status of, and actions taken for all Significant Industrial Users (SIUs) in Significant Non-Compliance (SNC);

b.) Pretreatment Program Summary (PPS)
A pretreatment program summary (PPS) on specific forms approved by the Division;

c.) Significant Non-Compliance Report (SNCR)
The nature of the violations and the actions taken or proposed to correct the violations on specific forms approved by the Division;

d.) Industrial Data Summary Forms (IDSF)

Monitoring data from samples collected by both the POTW and the Significant Industrial User (SIU). These analytical results must be reported on Industrial Data Summary Forms (IDSF) or other specific format approved by the Division;

e.) Other Information

Copies of the POTW's allocation table, new or modified enforcement compliance schedules, public notice of SIUs in SNC, and any other information, upon request, which in the opinion of the Director is needed to determine compliance with the pretreatment implementation requirements of this permit;

11. Public Notice

The Permittee shall publish annually a list of Significant Industrial Users (SIUs) that were in Significant Non-Compliance (SNC) as defined in the Permittee's Division-approved Sewer Use Ordinance with applicable pretreatment requirements and standards during the previous twelve month period. This list shall be published within four months of the applicable twelve-month period.

12. Record Keeping

The Permittee shall retain for a minimum of three years records of monitoring activities and results, along with support information including general records, water quality records, and records of industrial impact on the POTW.

13. Funding and Financial Report

The Permittee shall maintain adequate funding and staffing levels to accomplish the objectives of its approved pretreatment program.

14. Modification to Pretreatment Programs

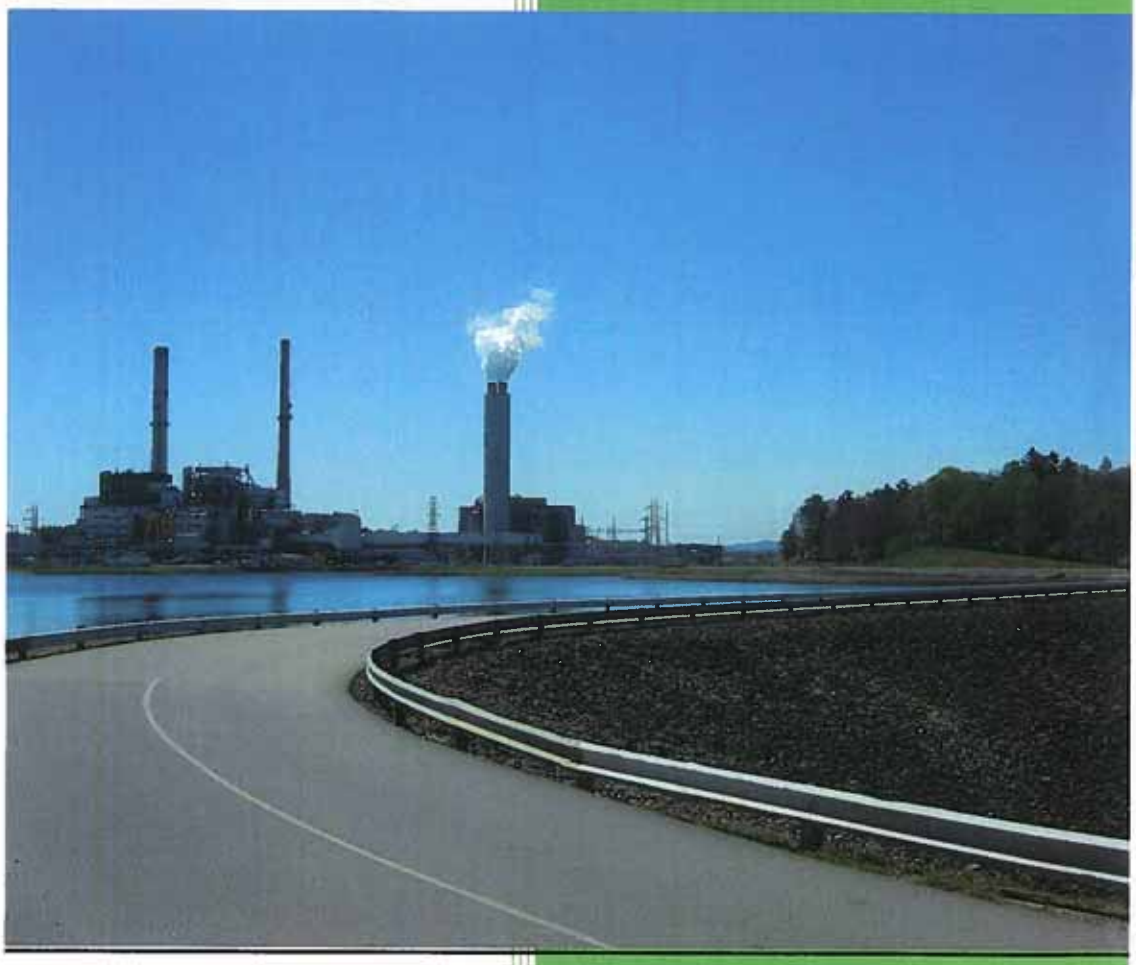
Modifications to the approved pretreatment program including but not limited to local limits modifications, POTW monitoring of their Significant Industrial Users (SIUs), and Monitoring Plan modifications, shall be considered a permit modification and shall be governed by 15 NCAC 2H .0114 and 15A NCAC 2H .0907.

**Appendix K**

Stormwater Pollution Prevention Plan
Question 10

# 2009

# Stormwater Pollution Prevention Plan
# Asheville Plant Access Roads



Progress Energy Carolinas Asheville Plant

April 2009

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## Introduction

In accordance with Special Condition *A.(10). Stormwater Pollution Prevention Plan* of NPDES permit NC0000396, this Stormwater Pollution Prevention (SWPP) Plan is presented in the following document. **Progress Energy Asheville Plant's NPDES permit NC0000396 specifically directs that its SWPP Plan must address stormwater runoff quality from plant access roads as all other plant site runoff is directed to a permitted wastewater treatment system (ash pond).** There are two plant access roads – the main entrance road (CP&L Drive) off of Long Shoals Road and the rear plant access road that leads to New Rockwood Road at the rear of the plant site.

This SWPP Plan contains site-specific stormwater pollution prevention and control measures to effectively minimize the occurrence and severity of stormwater pollution from the plant access roads. This SWPP Plan also addresses the secondary containment provided for bulk chemical storage.

Note that Asheville Plant has an Oil Spill Prevention Control and Countermeasure (SPCC) Plan that discusses plant compliance with the applicable requirements set forth in 40 CFR Part 112 as they apply to onshore facilities storing petroleum oil. The SPCC Plan discusses procedures, methods and equipment used for preventing the discharge of oil into or upon the navigable waters of the United States and is hereby incorporated by reference.

This SWPP Plan is updated as needed but is reviewed at a minimum of once per year (see Tab 1 Plan Amendment). The Plan is maintained at the Asheville Plant site and is available for inspection upon request. The Plant Environmental Specialist, under the direction and supervision of the Asheville Plant Manager, is responsible for the implementation of this SWPP Plan.

Prepared by: Laurie L. Moorhead 4/30/09

Laurie L. Moorhead, Date
Asheville Plant Environmental Specialist

Approved by: Garry A Whisnant 4/30/09

Garry A. Whisnant, Date
Asheville Plant Manager

## Facility Location

The Asheville Plant is located on Powell Creek in Skyland, North Carolina eight miles south of Asheville, North Carolina. Powell Creek is dammed, forming Lake Julian, and is used as non-contact cooling water for plant operations.

Access to the plant is from Long Shoals Road approximately 0.5 miles east of Interstate 26. The site consists of a 1,000-acre area with a grade of 2170 feet in elevation. See Tab 2 General Location Map for relative site location.

## Facility Description

The Asheville Plant is a large, two-unit, coal-fired electrical generating facility with two internal combustion turbine units located in Buncombe County, North Carolina. The plant has been in service since 1964 and is the largest electric generating facility in western North Carolina. The two coal burning units can produce approximately 383 megawatts of electricity in total. Each coal unit is equipped with a selective catalytic reduction unit to remove nitrogen oxides, an electrostatic precipitator to remove fly ash, and a scrubber to remove sulfur oxides from flue gases.

The two internal combustion turbine generation units, added to the plant in 1999 and 2000, can produce approximately 165 megawatts each burning either No. 2 fuel oil or natural gas. In addition to both the coal and internal combustion turbine units, there is a coal unloading and storage area, a No. 2 diesel fuel unloading area, two electrical switchyards, a cooling water system (including a re-circulating, man-made cooling water reservoir (Lake Julian) with an intake and hot-pond discharge), an ash pond (NPDES permitted discharge NC0000396), and an artificial wetland for wastewater treatment.

The plant site also has numerous buildings including a maintenance and welding shop, storerooms, paint storage, wastewater treatment facilities, gas cylinder storage, two de-mineralized water tanks, hydrogen storage, oil storage, and urea, gasoline and kerosene storage. A site map indicating locations of facilities is provided behind Tab 3 Facilities Map.

## Facility Stormwater Drainage

A 46-acre ash pond, constructed in 1982, lies approximately1300 feet south of the plant. The ash pond serves as a wastewater treatment facility for the separation of ash and water and is permitted to discharge to the French Broad River by NPDES NC0000396. All facility storm drains either gravity-feed or are pumped to the ash pond with the exception of the Administration Building parking lot and the 230kv switchyard.

Overflow from the ash pond is through an over and under weir to a second (smaller) holding pond and on to the French Broad River. The final outlet structure at the second holding pond is also an over and under type design. As an added control measure, both the ash and second smaller ponds have oil absorbent/containment booms permanently deployed just prior to their discharge structures.

Two storm drains from the Administration Building parking lot drain directly to Lake Julian. This drainage area contains the Administration Building parking lot only. Nine storm drains from within the 230kv switchyard are directed to an evaporative storm water pond (duck pond) located near the center of the plant property. This drainage area contains the 230kv switchyard

only. Three storm drains, 2 from the wastewater treatment building yard and 1 from the area between the rail car storage and 230kv switchyard, also drain to the duck pond. The receiving pond does not discharge to any surface waters.

There are two plant access roads – the main entrance road (CP&L Drive) off of Long Shoals Road and a rear plant access road that leads to New Rockwood Road at the rear of the plant site. Stormwater from the front access road drains directly into Lake Julian (stormwater outfalls 4 and 6) and to Powell Creek (stormwater outfall 5). Stormwater from the rear access road drains into Lake Julian (stormwater outfalls 1, 2 and 3) (see Tab 4 SW Outfalls Map).

**Access Roads' Outfalls, Drainage Areas, and Potential Sources of Pollutants**

There are a total of six stormwater outfalls at Asheville Plant which drain the two access roads, all of which discharge to Lake Julian with the exception of one that discharges to Powell Creek. Locations are described below and Tab 4 SW Outfalls Map depicts locations.

**SW-1** Stormwater flows to Lake Julian via concrete piping to a grass swale. The drainage area contains Progress Energy property, privately owned property, the rear plant access road, and a railroad storage yard where coal-filled rail cars can be stored.

**SW-2** Stormwater is collected in a riprap lined ditch to a grass swale en route to Lake Julian. The drainage area contains only the rear plant access road.

**SW-3** Stormwater is routed through concrete piping to a riprap lined ditch en route to Lake Julian. The drainage area contains the rear plant access road, Progress Energy property, privately owned property and a railroad storage yard.

**SW-4** Stormwater is routed via a grass swale to a riprap lined bank at Lake Julian. The drainage area contains Progress Energy property, privately owned property and the front access road.

**SW-5** Stormwater is routed through a metal corrugated pipe to a concrete conveyance that discharges into the Lake Julian spillway (to Powell Creek). The drainage area contains only the front access road.

**SW-6** Stormwater is routed via a grass swale to a concrete pipe that discharges into the settling pond at Lake Julian. This settling pond receives river water pumped from the French Broad River and overflows via a discharge pipe into Lake Julian. The discharge area for this outfall contains the front access road and a company owned picnic area (not in use).

No bulk chemicals, raw materials or petroleum products are stored within the drainage areas of any road access stormwater outfalls. For outfalls SW-1, -2, and -3, potential sources of pollutants are primarily limited to the transportation of materials. These potential sources include the incoming transportation of bulk chemicals, petroleum products, coal, and limestone and the exiting transportation of ash and gypsum trucks. Prior to leaving the plant site, all ash and gypsum trucks are covered and exit a truck washing station to minimize dust transport. Specific to outfalls SW-4, -5, and -6, potential sources of pollutants are limited to regular business traffic such as employee vehicles, FedEx, and Consolidated Waste Management (solid waste hauler) etc.

## Significant Spills

The Asheville Plant has not had any significant spills since December 6, 2005. At that time, a seal on a fuel forward pump failed and approximately 750 gallons of fuel oil were released to soil at the combustion turbine area. The spill was immediately reported to authorities and a spill contractor arrived on-site to begin recovery and cleanup the same day. A Notice of Violation was received from the NCDENR.

Note that NPDES permit NC0000396 defines "significant spills" to include, but not be limited to, releases of oil or hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.10 and CFR 117.21) or Section 102 of CERCLA (Ref: 40 CFR 302.4).

## Annual Certification of Non-Stormwater Discharges Description

On an annual basis, the Asheville Plant Environmental Specialist conducts a visual inspection of all stormwater outfalls during an extended period of dry weather. This visual inspection serves to ensure that there are no unpermitted discharges issuing from the access roads' stormwater conveyance system. Certification statements are signed and dated and may be found behind Tab 5 Annual Certification Page.

## Preventive Maintenance and Good Housekeeping Program for Access Roads

A study was performed addressing the technical and economic feasibility of changing the transportation of materials on the access roads to eliminate or reduce exposure of materials to stormwater. Due to the large surface area of these roads, covering of these areas is cost-prohibitive. In addition, it is not economically feasible to divert stormwater away from these roads. Therefore, preventive maintenance and good housekeeping are the best measures available to reduce pollutant sources from entering stormwater runoff.

Preventive maintenance includes periodic inspection of the stormwater conveyance systems for both access roads. On a semi-annual basis as prescribed in NPDES permit NC0000396, inspections of the access roads' stormwater systems are conducted. At this time, any areas of neglect are recorded and entered into the work management system for correction, including re-seeding and maintenance of ditches, grass-lined and concrete-lined conveyances, riprap and piping.

Good housekeeping practices at Asheville Plant for spill prevention of materials hauled along the rear plant access road include the covering of ash and gypsum haul trucks and the washing of haul trucks as they exit the plant site. Additionally, employees are trained annually on spill prevention and clean up procedures.

## Visual Inspections of Access Roads' Stormwater Outfalls and Discharge Quality

Inspections of the stormwater outfalls from the plant access roads are performed during a rainfall event and documented on a semi-annual basis in the spring (April – June) and fall (September – November). Examples of items checked are the condition of the stormwater conveyances (noting erosion or disrepair) as well as the visual quality of the discharge itself. For any needed repairs or maintenance, a work ticket is completed and reported to supervisory personnel. Immediate corrective action can be taken by the Shift Supervisor in case of emergency.

Monitoring forms provided by NCDENR are used to record the visual properties of the discharge including color, odor, clarity, floating solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. See Tab 6 SW Monitoring Forms for records from past inspections beginning with the year of this SWPP Plan. These monitoring records are also kept in plant file 12520 R.

## Outside Bulk Chemical Storage and Secondary Containment

Asheville Plant uses and stores the following chemicals in bulk (Table 1). Secondary containment is provided for all bulk chemical storage. The secondary containments are drained via manual gate valves that are kept closed and locked. There are no flapper-type drain valves. All secondary containment drains are routed to the ash pond.

**Table 1. Bulk Storage of Chemicals**

| Description | Volume | Physical Location |
|---|---|---|
| Sulfuric acid tank | 5000 gallons | At limestone crusher tower |
| Hypochlorite tank | 2000 gallons | At lake intake |
| Sodium hydroxide tank – Ash Pond | 4000 gallons | South end of Unit 1 at rr tracks |
| Sodium hydroxide tank - WWT | 5000 gallons | Wastewater treatment building |
| Urea tanks | 90,000 gallon storage and 15,000 gallon dissolver | South of CT Admin Building |

## Inspections of Bulk Chemical Secondary Containment

Routine inspections of the secondary containments and ash pond are conducted on a daily basis by Plant operators in accordance with plant procedures (OPS-ASHC-00118). Inspections are recorded on the Daily Environmental Check Log and filed in the Asheville Plant shared drive (S: Operations and Results/Shift Ops/Operator Equipment Check Log). Stormwater that is drained from secondary containment is visually checked for an oil sheen prior to discharge to the ash pond. Stormwater from containment areas is drained in accordance with the Asheville Plant Draining Secondary Containments procedure (OPS-ASHC-00052). Operators maintain logs of stormwater drainage in accordance with plant procedures and the logs may be found in Plantview/Operations Logbooks/Asheville Operations/Secondary Containment Drain Log.

In addition to daily checks of secondary containment structures for the presence/absence of stormwater and/or chemicals, inspection of the integrity of the secondary containment structures is performed in the fall and spring of every year. Reports are filed in plant file 12520-R-03-B and in this document behind Tab 7 Secondary Containment Inspections. If any corrosion, leaks, or damage is noted during an inspection, a work ticket is completed and reported to supervisory personnel. Immediate corrective action can be taken by the Shift Supervisor in case of emergency.

## Personnel Training

Training of plant personnel is required by NPDES permit NC0000396 to be conducted annually and is usually held in the fall at Asheville Plant during a monthly safety meeting. Sign-up sheets are used to document attendance and these presentations are filmed so that missing personnel may obtain the required training at a later date. Contents of this training, which is presented by the Plant Environmental Specialist, include the regulatory framework for wastewater and stormwater discharges as well as the contents of this SWPP Plan. Refer to Tab 8 Training Slides for past presentations and to Tab 9 Signup Sheets for attendance records.

As part of the Asheville Plant's SPCC Plan, annual training is conducted to ensure an adequate understanding of spill prevention procedures, the contents of Asheville Plant's SPCC Plan and any recently developed precautionary measures. The Plant Environmental Specialist conducts this training in conjunction with the SWPP Plan training in the fall of each year.

Plant personnel are also required to obtain computer-based spill prevention and response training on an annual basis. All training records and tracking for SPCC training are maintained by Plant Administrative staff in Peoplesoft.

Attachmat 1

## Plan Amendment

The SWPP Plan is amended as appropriate to reflect current conditions at the Asheville Plant to achieve the objective of controlling pollutants in stormwater. At a minimum, the SWPP Plan is reviewed and updated on an annual basis. Specific conditions which may require amendment to the SWPP Plan include:

- Changes in design, construction, operations, or maintenance, which have a significant effect on the potential for the discharge of pollutants to surface waters
- Changes in design, construction, operations, or maintenance which have not been addressed in the SWPP Plan
- A need to eliminate or minimize sources of pollutants identified in the SWPP Plan.

Documentation is added to the SWPP Plan to show that the annual review is completed. Amendments and annual reviews of the SWPP Plan may be documented by using and including the following form:

## Revision History

| Section | Revision Date | Revision Number | Revised by | Reason for Revision/Review |
|---|---|---|---|---|
| All | 09/06/03 | 1 | Mark Lobe | Annual review and amendment |
| All | 10/23/06 | 1 | Selenah Seabrooks | Annual review and amendment |
| All | 11/01/07 | 1 | Laurie Moorhead | Annual review and amendment |
| All | 08/01/08 | 1 | Laurie Moorhead | Annual review and amendment |
| All | 04/30/09 | 2 | Laurie Moorhead | Update to reflect new inspection, good housekeeping practices |
| All | 06/14/10 | 2 | Laurie Moorhead | Annual review and amendment |
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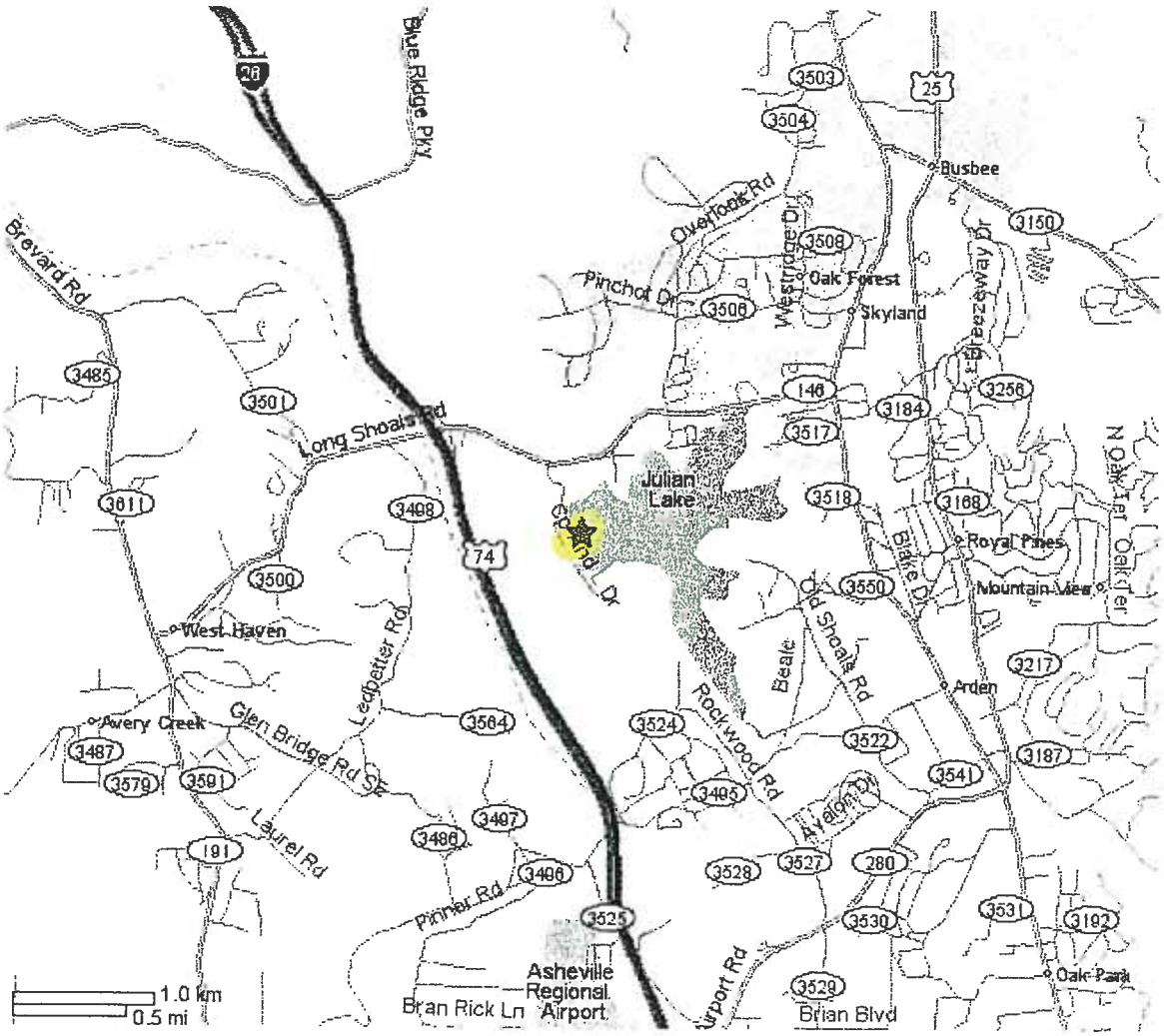
Attachment 2

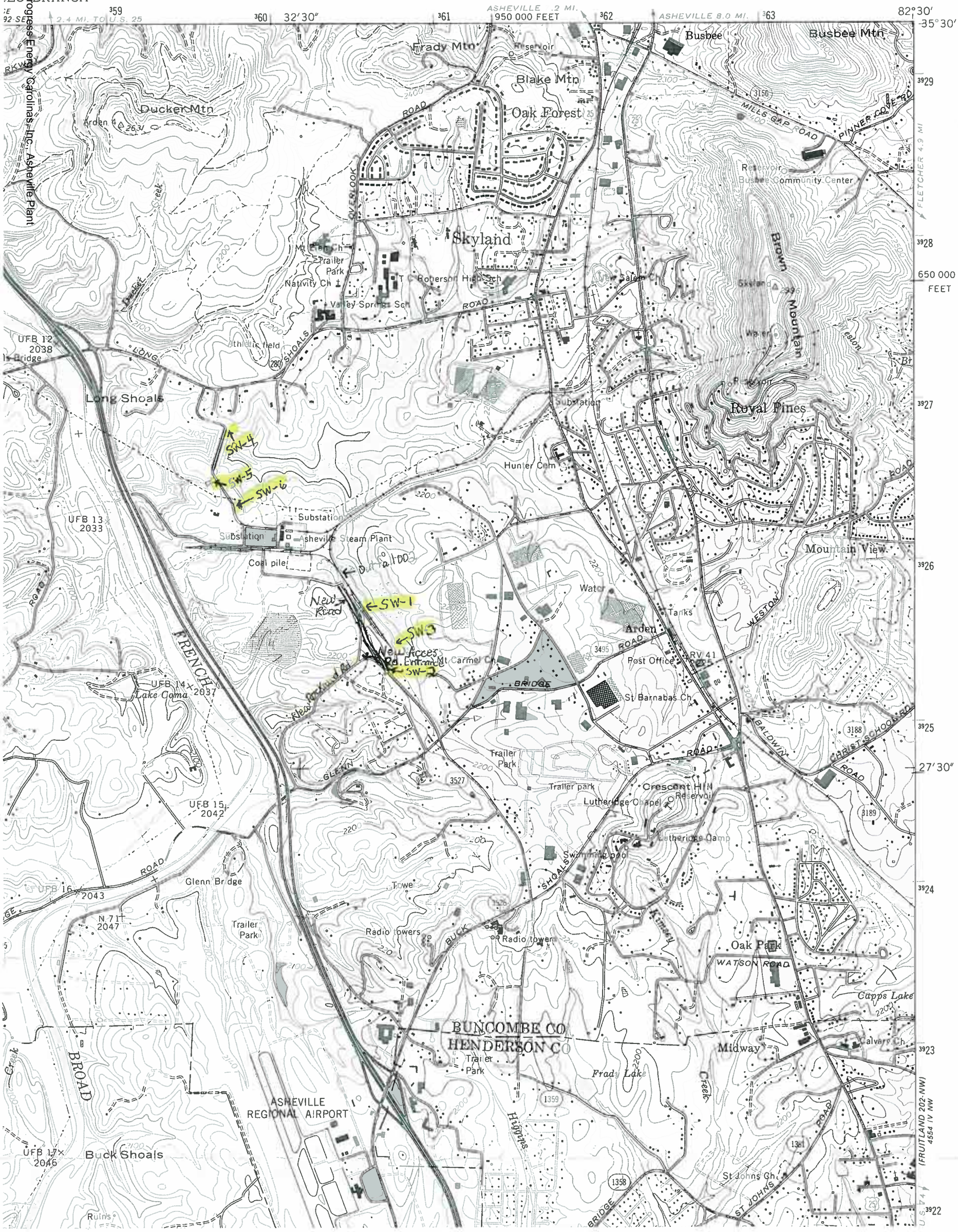
# General Location Map



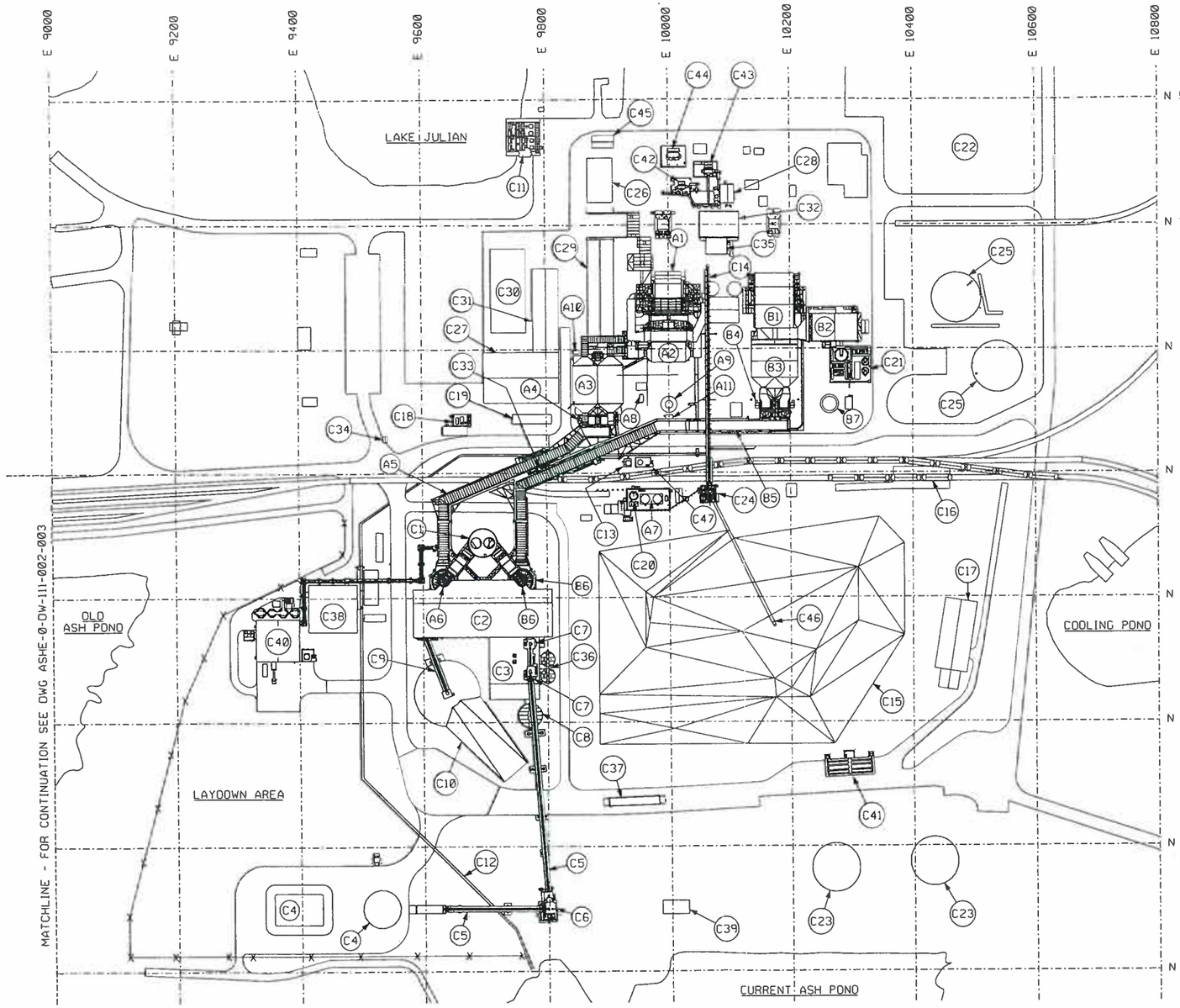
TATES
EY AUTHORITY
ES BRANCH

SKYLAND QUADRANGLE
NORTH CAROLINA
7.5 MINUTE SERIES (TOPOGRAPHIC) 193-NE

4555 III SW
(OTEEN 201-SW)



Attachmat 3




## UNIT 1

- A1. EXISTING BOILER
- A2. NEW SCR
- A3. NEW PRECIPITATOR
- A4. NEW ID FANS
- A5. NEW ID FAN-ABSORBER DUCT
- A6. NEW ABSORBER
- A7. RELOCATED NOx-OUT TANKS
- A8. EXISTING SULFUR TANK & PUMP HOUSE
- A9. EXISTING STACK
- A10. NEW ESP CONTROL BUILDING
- A11. EXISTING CEMS BUILDING

## UNIT 2

- B1. EXISTING BOILER
- B2. NEW SCR
- B3. EXISTING PRECIPITATOR
- B4. NEW ID FANS
- B5. NEW ID FAN-ABSORBER DUCT
- B6. NEW ABSORBER
- B7. EXISTING STACK

## COMMON AREAS

- C1. NEW STACK
- C2. NEW FGD BUILDING
- C3. NEW LIMESTONE PREP BUILDING
- C4. NEW LIMESTONE STOCKPILE
- C5. NEW LIMESTONE CONVEYORS
- C6. NEW LIMESTONE CRUSHER TOWER
- C7. NEW LIMESTONE DAY BINS
- C8. NEW ABSORBER EMERGENCY DUMP TANK
- C9. NEW GYPSUM CONVEYOR
- C10. NEW 7 DAY GYPSUM STOCKPILE
- C11. EXISTING LAKE WATER INTAKE STRUCTURE
- C12. EXISTING ASH SLUICE PIPE
- C13. EXISTING SODIUM HYDROXIDE TANK & DIKE
- C14. EXISTING COAL CONVEYOR
- C15. EXISTING 50 DAY COAL STOCKPILE
- C16. RAILWAY COAL CARS
- C17. EXISTING DOZER BUILDING
- C18. RELOCATED GASOLINE AND KEROSENE FUELING STATION.
- C19. EXISTING LOADING DOCK
- C20. NEW LIGHTING-OFF OIL TANK
- C21. NEW AMMONIA PRODUCTION AREA
- C22. EXISTING SIMPLE-CYCLE COMBUSTION TURBINE AREA
- C23. EXISTING COMBUSTION TURBINE FUEL OIL TANKS
- C24. EXISTING COAL CRUSHER TOWER
- C25. EXISTING DEMINERALIZED WATER TANKS
- C26. EXISTING OFFICE BUILDING
- C27. EXISTING WAREHOUSE & SMALL PARTS ROOM
- C28. NEW 6.9kv ELECTRICAL EQUIPMENT BUILDING
- C29. EXISTING MACHINE/I&C/WELDING SHOP
- C30. EXISTING ADMINISTRATION BUILDING
- C31. EXISTING LUNCHROOM/CONFERENCE ROOM
- C32. EXISTING U1 & U2 BOILER CONTROL ROOM
- C33. NEW OPACITY MONITOR PLATFORMS
- C34. EXISTING GUARD HOUSE
- C35. NEW U1 & U2 BOILER CONTROL ROOM ADDITION
- C36. NEW LIMESTONE SLURRY TANKS
- C37. NEW TRUCK SCALE
- C38. CONSTRUCTION OFFICES
- C39. RELOCATED BALL STORAGE BUILDING
- C40. NEW WASTE WATER PRE-TREATMENT AREA
- C41. NEW TRUCK WASH
- C42. NEW UNIT 1 AUXILIARY TRANSFORMER
- C43. NEW STARTUP TRANSFORMER
- C44. UNIT 1 GENERATOR STEP-UP TRANSFORMER
- C45. RELOCATED PAINT/OIL SHED
- C46. EXISTING COAL STACKER
- C47. NEW SULFURIC ACID TANK & DIKE

100 0 100 200 300
SCALE IN FEET

FINAL - NOT FOR CONSTRUCTION

NOTES:

| DWG NO. | REV. | TITLE |
|---|---|---|

DRAWING REFERENCES

| REV. | DESCRIPTION | DRAWN | CHKD | APPRVD | DATE |
|---|---|---|---|---|---|
| G | GENERAL REVISION | CLS | OJB | | 12/07/04 |
| F | FOR INFORMATION ONLY | CLS | OJB | | 09/07/04 |
| E | FOR INFORMATION ONLY | CLS | JDS | | 04/22/04 |
| D | FOR INFORMATION ONLY | CLS | JDS | | 02/03/04 |
| C | FOR INFORMATION ONLY | CLS | JDS | | 10/29/03 |
| B | FOR INFORMATION ONLY | CLS | | | 08/25/03 |
| A | FOR INFORMATION ONLY | CLS | | | 05/12/03 |

DRAWING REVISIONS

CONTRACTOR/VENDOR INFORMATION
PARSONS E&C
2675 MORGANTOWN ROAD
READING, PA 19607
610-855-2000
ORIGINALLY PREPARED UNDER THE SUPERVISION OF
PE: _____ STATE: _____
LIC. NO.: _____ DATE: _____
THE ABOVE IS RESERVED FOR VENDOR'S LOGO, NAME, ADDRESS, TELEPHONE NUMBER AND ANY REQUIRED REFERENCE NUMBERS. ALL DRAWINGS TO BE PRODUCED IN AUTOCAD RELEASE 2000 OR LATER.

SEAL
THE ABOVE IS RESERVED FOR PROFESSIONAL ENGINEER SEAL USE INK - DO NOT EMBOSS

PROGRESS ENERGY CAROLINAS, INC.
POWER OPERATIONS GROUP

| FACILITY: | UNIT: | SYSTEM: |
|---|---|---|
| ASH | 000 | 7042, 7043 |
| PROJECT NO: | EC NO: | W.O. NO: |
| 20035945 | 54073 | N/A |
| SIZE: | SCALE: | PLOT: |
| ANSI-D | 1"=100' | 1=1200 |

THIS DRAWING IS THE PROPERTY OF PROGRESS ENERGY CAROLINAS, INC. AND IS NOT TO BE REPRODUCED OR USED FOR ANY PURPOSE EXCEPT AS SPECIFIED BY PROGRESS ENERGY CAROLINAS, INC.

Progress Energy

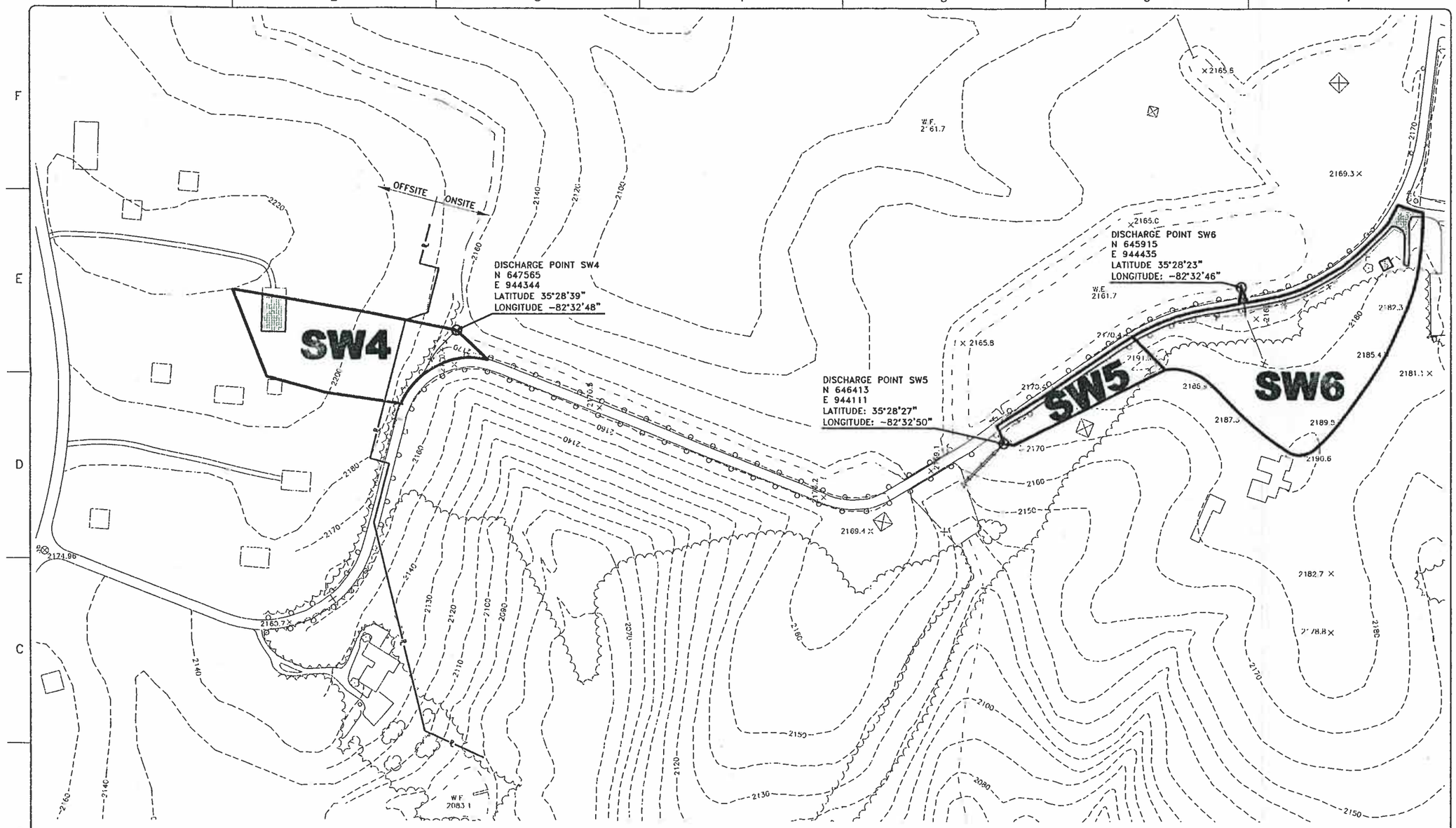
TITLE:
SCR & FGD PROJECTS
SITE PLAN EAST
GENERAL ARRANGEMENT

SHT: 001 OF 001 | DWG NO: ASHE-0-DW-111-002-001 | REV: G

FILE NAME: 01111002001.dgn
PATH: d:\?\asheville\12 drgs\002\
SERVER: reepds07

PLOTTED: ********

VHL: 06-DEC-2004 14:40:02




## STORMWATER OUTFALLS

| BASIN | OUTFALL DESCRIPTION | A OFFSITE PERVIOUS AREA sf/ac | B OFFSITE IMPERVIOUS AREA sf/ac | C ONSITE PERVIOUS AREA sf/ac | D ONSITE IMPERVIOUS AREA sf/ac | SUB-TOTALS sf/ac |
|---|---|---|---|---|---|---|
| SW4 | RIPRAP LINED CHANNEL | 50,136<br>1.15 | 3,671<br>0.08 | 15,788<br>0.36 | – | 69,622<br>1.59 |
| SW5 | 24"ø x 20' LONG CMP CULVERT | – | – | 22,008<br>0.51 | 3,600<br>0.08 | 25,608<br>0.59 |
| SW6 | 12"ø RCP OUTLET | – | – | 128,233<br>2.94 | 8,988<br>0.21 | 137,221<br>3.15 |
| | | | | | | 232,451 SF<br>5.33 AC |

NC GRID NORTH (NAD 83)

1" = 200'-0" (0, 200', 400', 600')

DO NOT SCALE – This drawing was generated using AutoCAD and must not be altered manually.

NOTES

| REV. NO. | REVISION DATE | REV. BY | CODE | REVISION DESCRIPTION | CHECKED BY / APPROVED BY |
|---|---|---|---|---|---|
| 0 | 02-04-03 | DWE | G | ISSUED FOR PERMIT NO. NC0000396<br>NOTE: Cloud all new revisions, identify with triangle (delta) and number. Only remove previous revision cloud(s) before adding new revision. | |

| ISSUE CODES | | | |
|---|---|---|---|
| A Preliminary | D Mat'l. Purchase | G Permit | |
| B Design | E Bids | Archive Code | |
| | C Mat'l. Take Off | F Construction | |

Seal

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL No. 19823 DAVID WAYNE ELLIOTT

Signature

2-4-03

Date

| | |
|---|---|
| Proj. Mgr.: L. DALTON | Date: 01-2003 |
| Checker: | Jacobs Project No.: 17N89616 |
| Disp. Lead: D. ELLIOTT | |
| Originator: J. MARTIN | Scale: 1"=100' |

Jacobs CAD File: I:\CIVIL\17N89616-SF-C-R-0001.DWG

JACOBS ENGINEERING
Engineers and Constructors

1041 East Butler Road Greenville, South Carolina 29607-5725
Post Office Box 5456 Greenville, South Carolina 29606-5456
Tel 864-676-6000 Fax 864-676-5023

PROGRESS ENERGY
ASHEVILLE STEAM ELECTRIC PLANT

ASHEVILLE
NORTH CAROLINA

Drawing Title

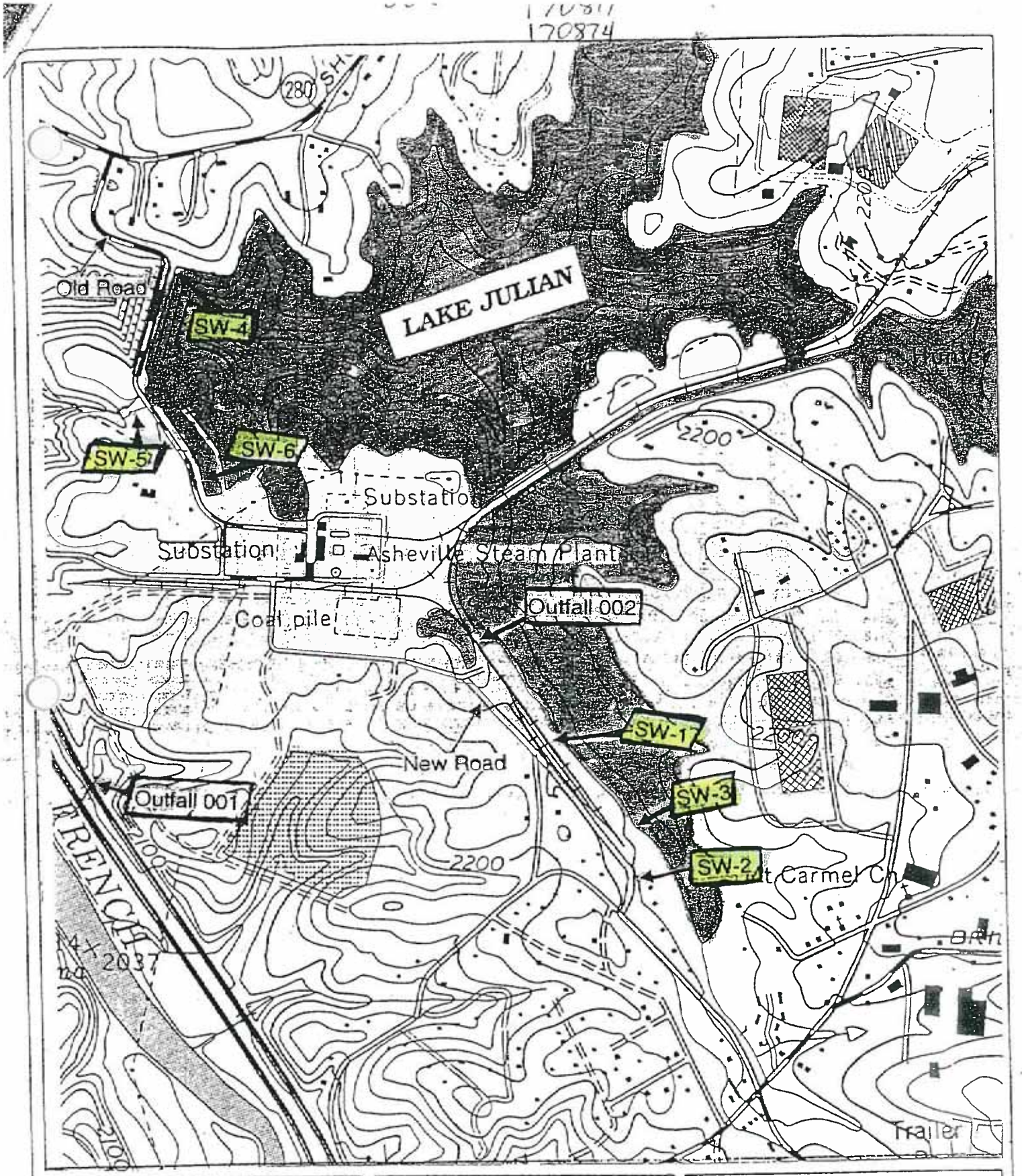
CIVIL

MAIN ENTRANCE ROAD
STORMWATER
OUTFALLS PLAN

Client Drawing Number

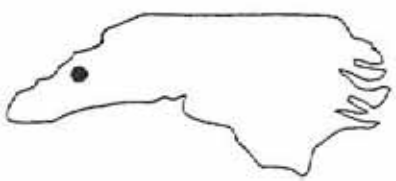
Jacobs Drawing Number: 17N89616-SF-C-R-0001 | REV: 0

Attachment 4

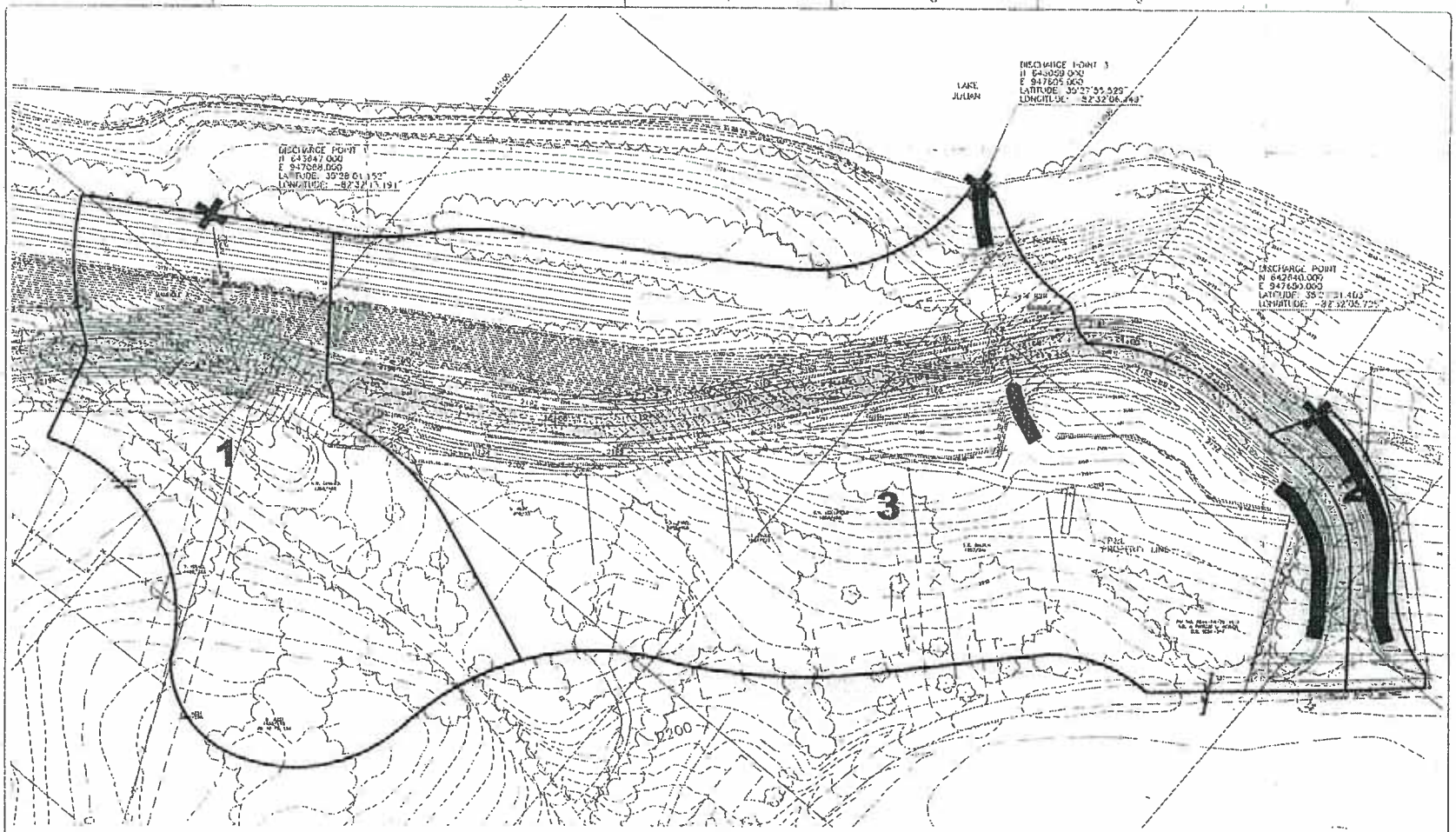



| | |
|---|---|
| Latitude: | 35° 28' 02" |
| Longitude: | 82° 32' 56" |
| USGS Quad #: | F8NE |
| River Basin #: | 04-03-02 |
| Receiving Stream: | French Broad R.<br>Lake Julian<br>UT Powell Crk |
| Stream Class: | C |

N



CP&L-Asheville
Steam Electric Plant
Buncombe County
NC0000396




OUTFALLS TO LAKE JULIAN

| BASIN | A OFFSITE PERVIOUS AREA sf/ac | B OFFSITE IMPERVIOUS AREA sf/ac | C ONSITE PERVIOUS AREA sf/ac | D ONSITE IMPERVIOUS AREA sf/ac | SUB-TOTALS sf/ac |
|---|---|---|---|---|---|
| 1 | 97669<br>2.24 | 7850<br>0.18 | 48147<br>1.11 | 6968<br>0.16 | 160634<br>3.69 |
| 2 | - | - | 10725<br>0.25 | 5727<br>0.13 | 16456<br>0.38 |
| 3 | 164153<br>3.77 | 9051<br>0.21 | 193960<br>4.45 | 27521<br>0.63 | 394691<br>9.06 |
| | | | | | 571781 SF<br>13.13 AC |

JACOBS ENGINEERING

CAROLINA POWER AND LIGHT COMPANY
ASHEVILLE
NORTH CAROLINA
ACCESS ROAD PROJECT

CIVIL

NEW ACCESS ROAD STORMWATER OUTFALLS

17N64422-RD-C-R-0001 | 0

Attachment 5

## Annual Certification of Non-Stormwater Discharges

A visual inspection of the following permitted stormwater outfalls, SW-1, SW-2, SW-3, SW-4, SW-5, SW-6, was performed on April 16, 2010 to verify that no unpermitted, suspicious discharges are occurring. This inspection was conducted following a period of no precipitation. No discharges were observed at any of the above named stormwater outfalls.

*I,* Laurie L. Moorhead *, certify that the road access stormwater outfalls located at Progress Energy Asheville Plant listed above only contain stormwater runoff from said property. The stormwater outfalls do not contain waters originating from any of the following sources:*

- *Domestic wastewater sources (i.e. toilets, sinks, kitchen sinks, washing machines, etc...)*
- *Process wastewater from equipment operation, wash down, fluid removal, etc...*
- *Other non-stormwater discharges.*

Laurie L. Moorhead
*Laurie L. Moorhead,*
*Asheville Plant Environmental Specialist*

April 16, 2010
*Date*

**Annual Certification of Non-Stormwater Discharges**

A visual inspection of the following permitted stormwater outfalls, SW-1, SW-2, SW-3, SW-4, SW-5, SW-6, was performed on April 23, 2009 to verify that no unpermitted, suspicious discharges are occurring. This inspection was conducted following a period of no precipitation. No discharges were observed at any of the above named stormwater outfalls.

*I,* Laurie L. Moorhead *, certify that the road access stormwater outfalls located at Progress Energy Asheville Plant listed above only contain stormwater runoff from said property. The stormwater outfalls do not contain waters originating from any of the following sources:*

- *Domestic wastewater sources (i.e. toilets, sinks, kitchen sinks, washing machines, etc...*
- *Process wastewater from equipment operation, wash down, fluid removal, etc...*
- *Other non-stormwater discharges.*

Laurie L. Moorhead
*Laurie L. Moorhead,*
*Asheville Plant Environmental Specialist*

April 24, 2009
*Date*

Attachment 6

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: NCG010181 or Certificate of Coverage No.: NCG_____
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5210
Inspector: Crystal R. Diedrich
Date of Inspection: [redacted]

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Crystal R Diedrich
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-1 Structure (pipe, ditch, etc.) Concrete pipe to east ash storage
Receiving Stream: Lake Julian Tributary to Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

0 1 2 3 4 5 6 7 8 9 10

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No. NCG010000 or Certificate of Coverage No.: NCG_____
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5216
Inspector: Crystal R. Diedrick
Date of Inspection: 05-31-2010

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Crystal R Diedrick
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW 2 Structure (pipe, ditch, etc.): Rock lined ditch to earthen swale
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.): No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

0 1 2 3 4 5 6 7 8 9 10

File: 12520R

# Stormwater Discharge Outfall (SDO) Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/7/4 or Certificate of Coverage No.: N/C/G/ / / / / / /
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 637-5210
Inspector: Crystal R. Biedrich
Date of Inspection: 05-31-2010

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Crystal R Biedrich
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW3 Structure (pipe, ditch, etc.) Concrete pipe to rock lined ditch
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area. Plant access road for the delivery of raw materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

1 2 3 4 5 6 7 8 9 10

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0[illegible] or Certificate of Coverage No.: N/C/G/ / / / / / /
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No.: (828) 687-5210
Inspector: Crystal R. Diedrich
Date of Inspection: 05-31-2010

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Crystal R. Diedrich
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No.: SW-4 Structure (pipe, ditch, etc.): Earthen ditch to riprap lake bank
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.): No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

1 2 3 4 5 6 7 8 9 10

File: 12520R

# Stormwater Discharge Outfall (SDO) Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/0/ / / / / / /
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5210
Inspector: Crystal R. Diedrich
Date of Inspection: 05-31-2010

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Crystal R. Diedrich
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-5 Structure (pipe, ditch, etc.) Corrugated pipe + concrete ditch to spillway
Receiving Stream: Unnamed tributary to Powell Creek
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

1 2 3 4 5 6 7 8 9 10

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/4/6/ or Certificate of Coverage No.: N/C/G/ / / / / / /
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5210
Inspector: Crystal R. Diedrich
Date of Inspection: 05-31-2010

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Crystal R Diedrich
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-6 Structure (pipe, ditch, etc.) Grassy swale to concrete pipe
Receiving Stream: Settling pond to Lake Julian
Describe the industrial activities that occur within the outfall drainage area:

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

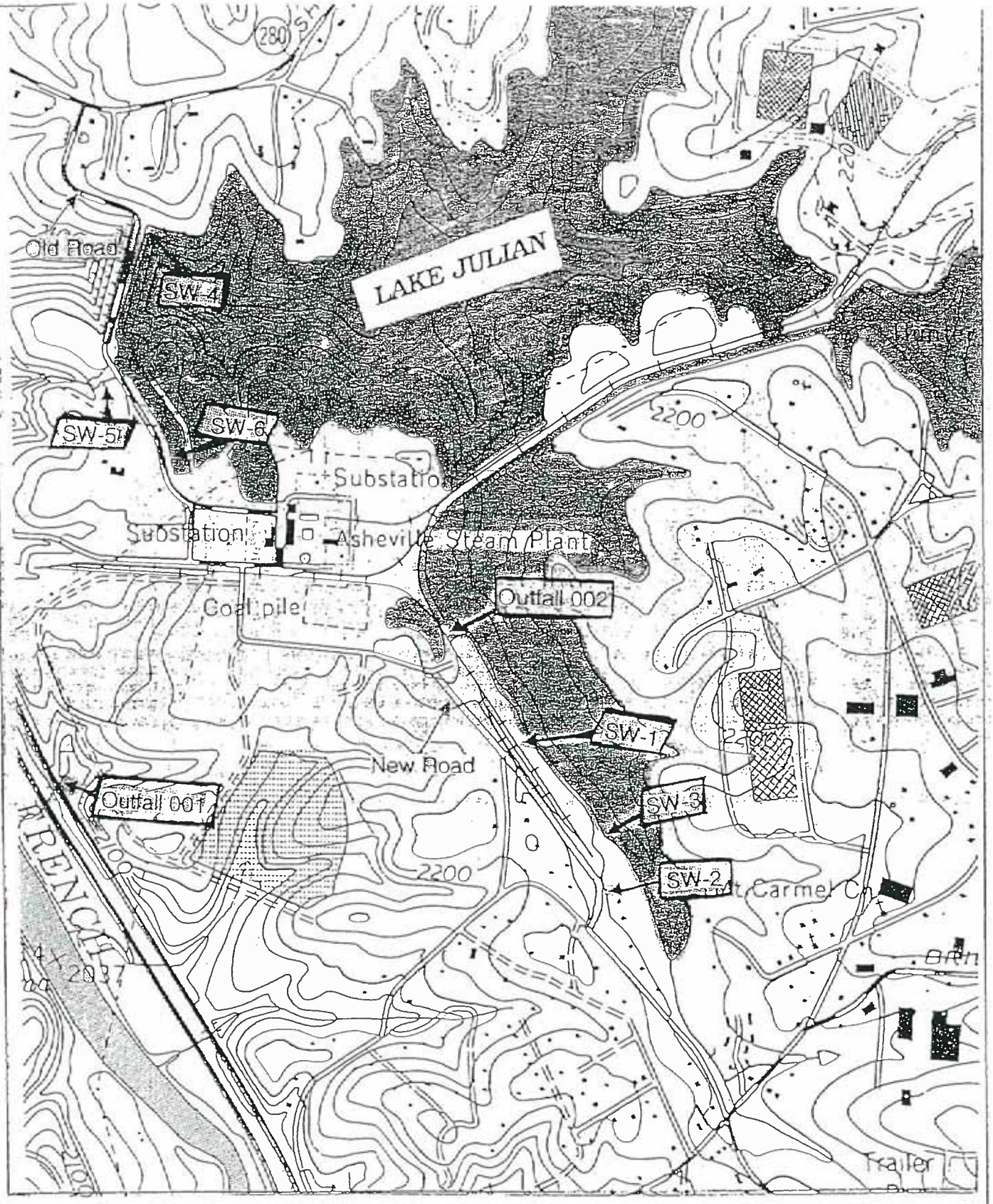
3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

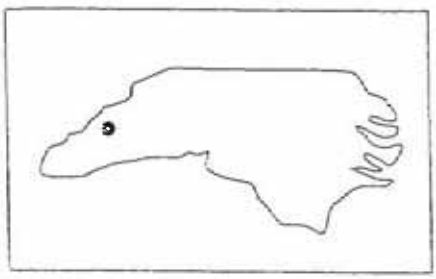
Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10




| | |
|---|---|
| Latitude: | 35° 28' 02" |
| Longitude: | 82° 32' 56" |
| USGS Quad #: | F8NE |
| River Basin #: | 04-03-02 |
| Receiving Stream: | French Broad R.<br>Lake Julian<br>UT Powell Crk |
| Stream Class: | C |

N



CP&L-Asheville
Steam Electric Plant
Buncombe County
NC0000396

Station: KAVL - Asheville Regional Airport Date of first observation: January 1, 1948

Station type: ASOS - Standard

City, State: Asheville, NC County: Buncombe County

Latitude: 35.4361944° Longitude: -82.5418056°

Elevation: 2165 feet above sea level

Climate division: NC01 - Southern Mountains

River basin: Upper French Broad

Supported by: NOAA National Weather Service

This page is created dynamically and should not be bookmarked. Instead, bookmark the page preceeding this.

## Retrieving hourly data from Asheville Regional Airport for past 7 day(s)

182 observations for this period of record (98.9% data available; 2 missing records)

*If you need more historical data from a larger period of record, please contact us for assistance*

| Date/Time of ob (Eastern Standard Time) | Hourly Precipitation at 2m (in) |
|---|---|
| 05/27/2010 00:54 H | * |
| 05/27/2010 01:54 H | * |
| 05/27/2010 02:54 H | * |
| 05/27/2010 03:54 H | * |
| 05/27/2010 04:54 H | * |
| 05/27/2010 05:54 H | * |
| 05/27/2010 06:54 H | * |
| 05/27/2010 07:54 H | * |
| 05/27/2010 08:54 H | * |
| 05/27/2010 09:54 H | * |
| 05/27/2010 10:54 H | * |
| 05/27/2010 11:54 H | * |
| 05/27/2010 12:54 H | * |
| 05/27/2010 13:54 H | 0.12 |
| 05/27/2010 14:54 H | 0.06 |
| 05/27/2010 15:54 H | * |
| 05/27/2010 16:54 H | * |
| 05/27/2010 17:54 H | * |
| 05/27/2010 18:54 H | * |
| 05/27/2010 19:54 H | * |
| 05/27/2010 20:54 H | * |
| 05/27/2010 21:54 H | * |
| 05/27/2010 22:54 H | * |
| 05/27/2010 23:54 H | * |
| 05/28/2010 00:54 H | * |

| | |
|---|---|
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| 05/29/2010 18:54 H | |
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| 05/31/2010 09:54 H | 0.14 |

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/

Facility Name: Asheville Steam Electric Plant

County: Buncombe Phone No. 828-687-5230

Inspector: Marien Keezel

Date of Inspection: 8-16-09

~~By this signature, I certify that this report is accurate and complete to the best of my knowledge.~~

Marien N Keezel

(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-1 Structure (pipe, ditch, etc.) Concrete pipe to east car storage then swale to Lake Julian

Receiving Stream: Lake Julian

Describe the industrial activities that occur within the outfall drainage area. Plant access Road for the delivery of RAW materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) NO odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/1/3/9/4/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marian Keezel
Date of Inspection: 9-16-09

~~By this signature, I certify that this report is accurate and complete to the best of my knowledge:~~

Marian V Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-2 Structure (pipe, ditch, etc.) Rock lined ditch to earthen swale.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of RAW MATERIALS.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) NO odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marion H. Keezel
Date of Inspection: 9-16-09

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marion H Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-3 Structure (pipe, ditch, etc.) Concrete pipe to rock lined ditch.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of RAW MATERIALS.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) NO odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/7/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marica Keezel
Date of Inspection: 9-16-09

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marcia N Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-4 Structure (pipe, ditch, etc.) Earthen ditch to rip-rap lake bank.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of RAW MATERIALS.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No. N/C/0/1/0/1/0/1/3/9/6/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marian Kezzel
Date of Inspection: 9-16-09

~~By this signature, I certify that this report is accurate and complete to the best of my knowledge.~~

Marian N. Kezzel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-5 Structure (pipe, ditch, etc.) Corrugated pipe & concrete ditch to spillway.
Receiving Stream: An unnamed tributary to Powell Creek
Describe the industrial activities that occur within the outfall drainage area: Plant access Road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/1/3/9/6/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-657-5230
Inspector: Marian Keezel
Date of Inspection: 9-16-09

By this signature, I certify that this report is accurate and complete to the best of my knowledge.

Marian N. Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-6 Structure (pipe, ditch, etc.) Grassy swale to concrete pipe.
Receiving Stream: Settling pond to Lake Julian.
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) NC odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10

**Station:** KAVL - Asheville Regional Airport **Date of first observation:** January 1, 1948

**Station type:** ASOS - Standard

**City, State:** Asheville, NC **County:** Buncombe County

**atitude:** 35.4361944° **Longitude:** -82.5418056°

**Elevation:** 2165 feet above sea level

**Climate division:** NC01 - Southern Mountains

**River basin:** Upper French Broad

**Supported by:** NOAA National Weather Service

This page is created dynamically and should not be bookmarked. Instead, bookmark the page preceeding this.

## Retrieving hourly data from Asheville Regional Airport for past 3 day(s)

97 observations for this period of record (109% data available; -8 missing records)

*If you need more historical data from a larger period of record, please contact us for assistance*

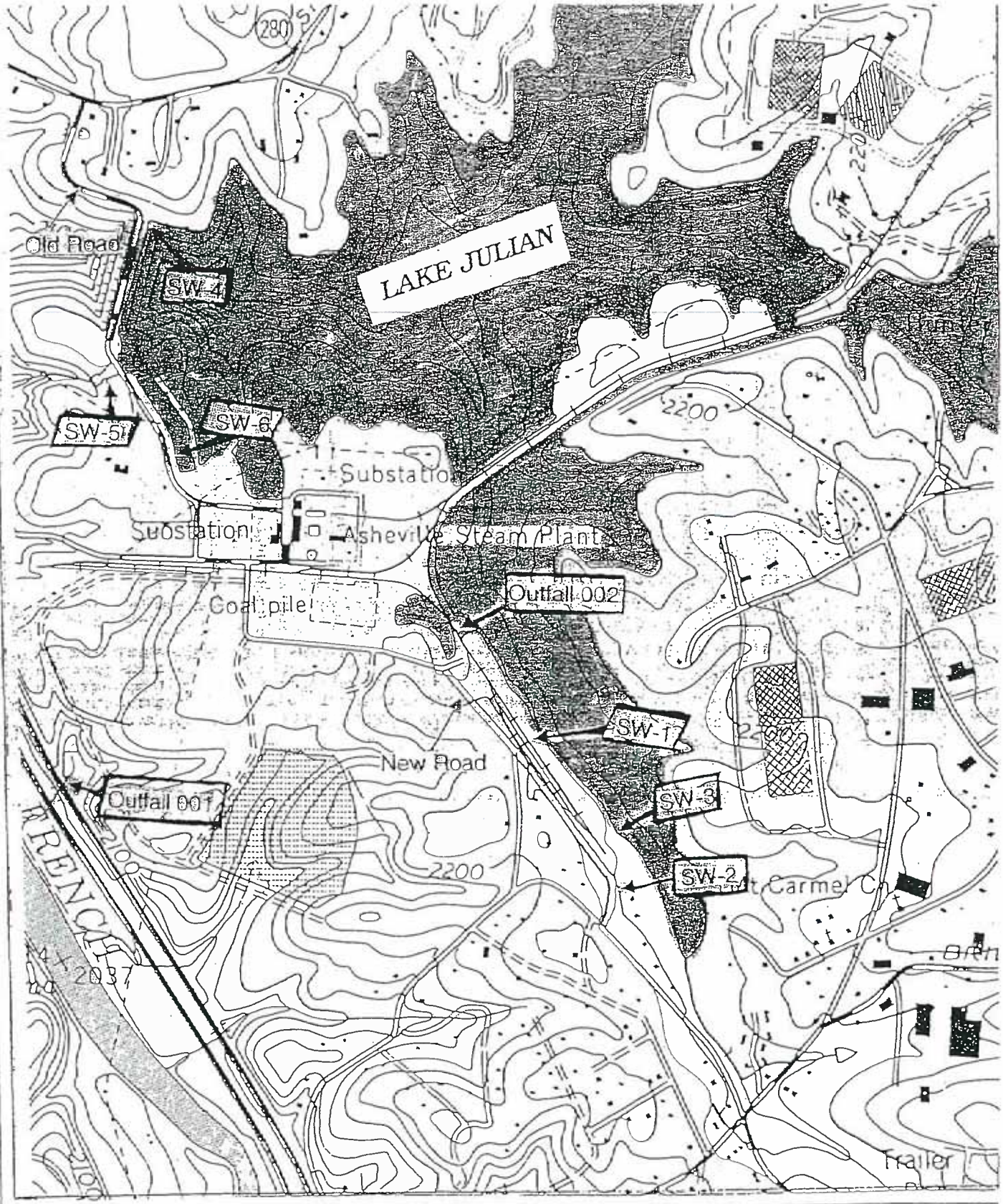
| Date/Time of ob (Eastern Standard Time) | Hourly Precipitation at 2m (in) |
|---|---|
| 09/13/2009 00:54 H | |
| 09/13/2009 01:54 H | |
| 09/13/2009 02:54 H | |
| 09/13/2009 03:54 H | |
| 09/13/2009 04:42 H | |
| 09/13/2009 04:54 H | |
| 09/13/2009 05:54 H | |
| 09/13/2009 05:59 H | |
| 09/13/2009 06:54 H | |
| 09/13/2009 07:49 H | |
| 09/13/2009 07:54 H | |
| 09/13/2009 08:54 H | |
| 09/13/2009 09:54 H | |
| 09/13/2009 10:54 H | |
| 09/13/2009 11:54 H | 0.0001 |
| 09/13/2009 12:54 H | |
| 09/13/2009 13:54 H | |
| 09/13/2009 14:54 H | |
| 09/13/2009 15:54 H | |
| 09/13/2009 16:54 H | |
| 09/13/2009 17:54 H | |
| 09/13/2009 18:54 H | |
| 09/13/2009 19:54 H | |

| | |
|---|---|
| 09/13/2009 20:54 H | * |
| 09/13/2009 21:54 H | * |
| 09/13/2009 22:54 H | * |
| 0[illegible]3/2009 23:54 H | * |
| 09/14/2009 00:54 H | * |
| 09/14/2009 01:54 H | * |
| 09/14/2009 02:54 H | * |
| 09/14/2009 03:54 H | * |
| 09/14/2009 04:54 H | * |
| 09/14/2009 05:41 H | * |
| 09/14/2009 05:54 H | * |
| 09/14/2009 06:54 H | * |
| 09/14/2009 07:54 H | * |
| 09/14/2009 08:54 H | 0.0001 |
| 09/14/2009 09:54 H | * |
| 09/14/2009 10:54 H | * |
| 09/14/2009 11:54 H | * |
| 09/14/2009 12:54 H | * |
| 09/14/2009 13:54 H | * |
| 0[illegible]4/2009 14:54 H | * |
| 09/14/2009 15:54 H | * |
| 09/14/2009 16:54 H | * |
| 09/14/2009 17:54 H | * |
| 09/14/2009 18:54 H | * |
| 09/14/2009 19:54 H | * |
| 09/14/2009 20:54 H | * |
| 09/14/2009 21:54 H | * |
| 09/14/2009 22:54 H | * |
| 09/14/2009 23:54 H | * |
| 09/15/2009 00:54 H | * |
| 09/15/2009 01:54 H | * |
| 09/15/2009 02:54 H | * |
| 09/15/2009 03:44 H | 0 |
| 09/15/2009 03:54 H | 0.0001 |
| 09/15/2009 04:54 H | * |
| 09/15/2009 05:54 H | * |
| 09/15/2009 06:54 H | * |
| 09/15/2009 07:54 H | * |

| | |
|---|---|
| 09/15/2009 08:54 H | * |
| 09/15/2009 09:54 H | 0.0001 |
| 09/15/2009 10:54 H | * |
| 09/15/2009 11:54 H | * |
| 09/15/2009 12:54 H | * |
| 09/15/2009 13:54 H | * |
| 09/15/2009 14:54 H | 0.0001 |
| 09/15/2009 15:54 H | 0.0001 |
| 09/15/2009 16:54 H | 0.0001 |
| 09/15/2009 17:54 H | 0.01 |
| 09/15/2009 18:41 H | * |
| 09/15/2009 18:50 H | * |
| 09/15/2009 18:54 H | * |
| 09/15/2009 19:54 H | * |
| 09/15/2009 20:54 H | * |
| 09/15/2009 21:54 H | * |
| 09/15/2009 22:54 H | 0.0001 |
| 09/15/2009 23:54 H | * |
| 09/16/2009 00:54 H | * |
| 09/16/2009 01:54 H | * |
| 09/16/2009 02:54 H | * |
| 09/16/2009 03:54 H | * |
| 09/16/2009 04:54 H | * |
| 09/16/2009 05:54 H | * |
| 09/16/2009 06:54 H | * |
| 09/16/2009 07:54 H | * |
| 09/16/2009 08:54 H | 0.0001 |
| 09/16/2009 09:41 H | 0.01 |
| 09/16/2009 09:50 H | 0.02 |
| 09/16/2009 09:51 H | 0.02 |
| 09/16/2009 10:44 H | 0.09 |
| 09/16/2009 10:54 H | 0.11 |
| 09/16/2009 10:56 H | 0 |
| 09/16/2009 11:54 H | 0.06 |
| 09/16/2009 12:54 H | 0.02 |
| 09/16/2009 13:54 H | 0.01 |
| **Sum** | 0.35 |
| **Average** $1/n \sum a_i$ | 0 |
| **Mean** *(max+min)/2* | 0.1 |
| **High** | 0.1 |

Storm event 0.3401

No storm event measuring greater than 0.1 inches has occurred in last 72 hours. YLHK




| | |
|---|---|
| Latitude: | 35° 28′ 02″ |
| Longitude: | 82° 32′ 56″ |
| USGS Quad #: | F8NE |
| River Basin #: | 04-03-02 |
| Receiving Stream: | French Broad R.<br>Lake Julian<br>UT Powell Crk. |
| Stream Class: | C |

N

CP&L-Asheville
Steam Electric Plant
Buncombe County
NC0000396

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/3/1/9/6/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-657-5230
Inspector: Marisa N Keezel
Date of Inspection: 04-01-09

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marisa N Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW1 Structure (pipe, ditch, etc.) Concrete pipe to east car storage; then swale to Lake Julian
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of RAW materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/1/3/9/6/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_/

Facility Name: Asheville Steam Electric Plant

County: Buncombe Phone No. 828-687-5230

Inspector: Marea Keezel

Date of Inspection: 04-01-09

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marea H. Keezel

(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW2 Structure (pipe, ditch, etc.) Rock lined ditch to earthen swale.

Receiving Stream: Lake Julian

Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of RAW materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odors

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marica N Keezel
Date of Inspection: 04-02-09
MK

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marica N Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW3 Structure (pipe, ditch, etc.) Concrete pipe to rock lined ditch.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/1/3/9/1/6/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marien H. Keezel
Date of Inspection: 04-01-09

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marien H. Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-4 Structure (pipe, ditch, etc.) Earthen ditch to rip-rap Lake bank.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of RAW MATERIALS

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) NO ODOR

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-657-5230
Inspector: Marion H Keezel
Date of Inspection: 04-01-09

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marion H Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-5 Structure (pipe, ditch, etc.) Corrugated pipe + concrete ditch to Sp. 11WA
Receiving Stream: An unnamed tributary to Powell Creek
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of RAW materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odors

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/1/3/9/6/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marie N. Keezel
Date of Inspection: 04-01-09

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marie Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-6 Structure (pipe, ditch, etc.) Grassy swale to concrete pipe.
Receiving Stream: Settling pond to Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Slightly light red dingy color due to infiltration of red clay through pipe joint.

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odors

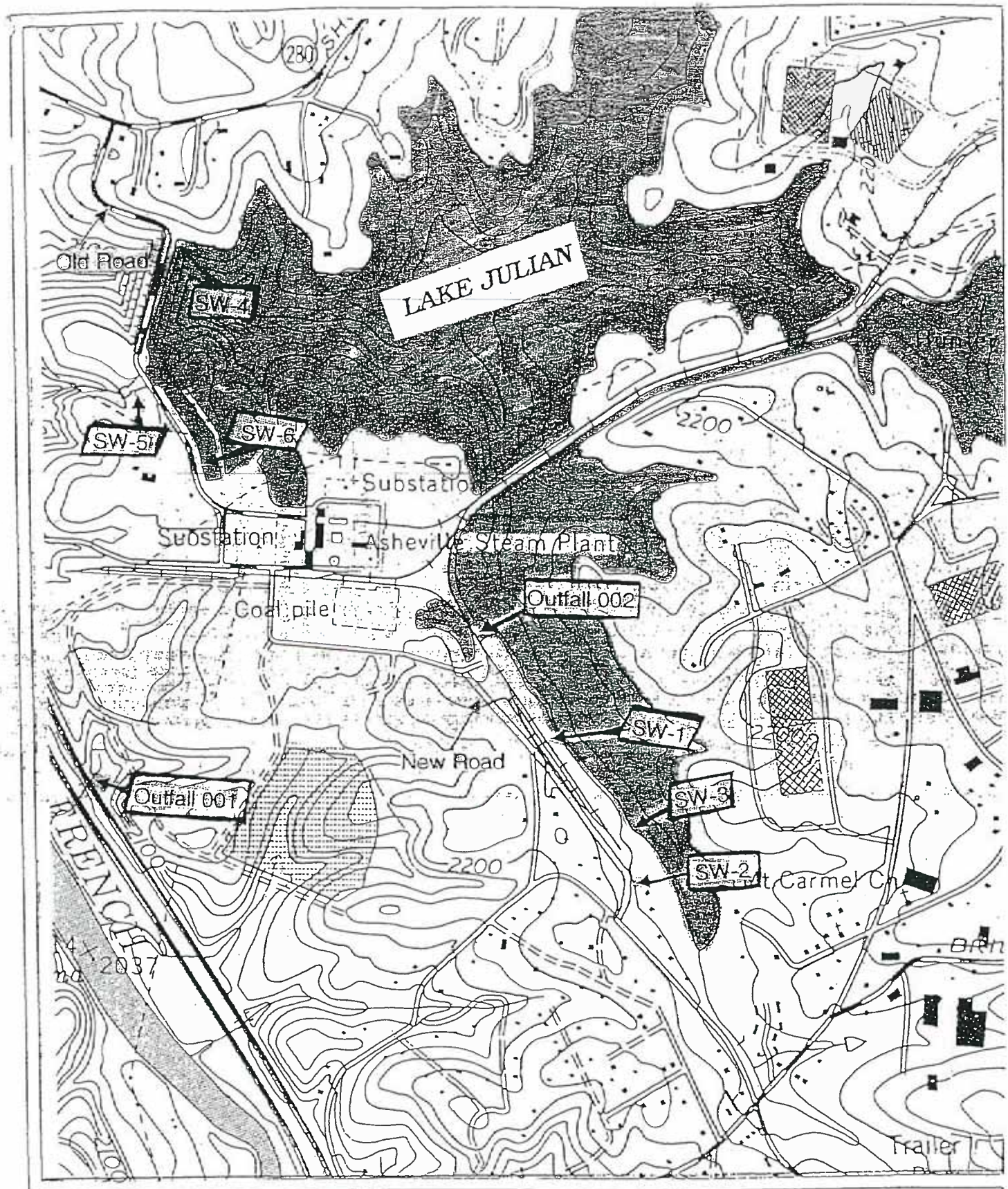
4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

1 (2) 3 4 5 6 7 8 9 10



SWU-242-101599




| | |
|---|---|
| Latitude: | 35° 28′ 02″ |
| Longitude: | 82° 32′ 56″ |
| USGS Quad #: | FSNE |
| River Basin #: | 04-03-02 |
| Receiving Stream: | French Broad R.<br>Lake Julian<br>UT Powell Crk. |
| Stream Class: | C |

N

CP&L-Asheville
Steam Electric Plant
Buncombe County
NC0000396

**Station:** KAVL - Asheville Regional Airport **Date of first observation:** January 1, 1948

**Station type:** ASOS - Standard

**City, State:** Asheville, NC **County:** Buncombe County

**Latitude:** 35.4361944° **Longitude:** -82.5418056°

**Elevation:** 2165 feet above sea level

**Climate division:** NC01 - Southern Mountains

**River basin:** Upper French Broad

**Supported by:** NOAA National Weather Service

This page is created dynamically and should not be bookmarked. Instead, bookmark the page preceeding this.

## Retrieving hourly data from Asheville Regional Airport for past 3 day(s)

83 observations for this period of record (97.6% data available; 2 missing records)

*If you need more historical data from a larger period of record, please contact us for assistance*

| Date/Time of ob (Eastern Standard Time) | Hourly Precipitation at 2m (in) |
|---|---|
| 03/29/2009 00:54 H | 0.0001 |
| 03/29/2009 01:54 H | 0.1 |
| 03/29/2009 02:54 H | 0.03 |
| 03/29/2009 03:54 H | 0.0001 |
| 03/29/2009 04:54 H | * |
| 03/29/2009 05:54 H | * |
| 03/29/2009 06:54 H | * |
| 03/29/2009 07:54 H | * |
| 03/29/2009 08:54 H | * |
| 03/29/2009 09:54 H | * |
| 03/29/2009 10:54 H | * |
| 03/29/2009 11:54 H | * |
| 03/29/2009 12:54 H | * |
| 03/29/2009 13:54 H | * |
| 03/29/2009 14:54 H | * |
| 03/29/2009 15:54 H | * |
| 03/29/2009 16:54 H | * |
| 03/29/2009 17:54 H | * |
| 03/29/2009 18:54 H | * |
| 03/29/2009 19:54 H | * |
| 03/29/2009 20:54 H | * |
| 03/29/2009 21:54 H | * |
| 03/29/2009 22:54 H | * |
| 03/29/2009 23:54 H | * |

| | | |
|---|---|---|
| 03/30/2009 00:54 | H | |
| 03/30/2009 01:54 | H | |
| 03/30/2009 02:54 | H | |
| 03/30/2009 03:54 | H | |
| 03/30/2009 04:54 | H | |
| 03/30/2009 05:54 | H | |
| 03/30/2009 06:54 | H | |
| 03/30/2009 07:54 | H | |
| 03/30/2009 08:54 | H | |
| 03/30/2009 09:54 | H | |
| 03/30/2009 10:54 | H | |
| 03/30/2009 11:54 | H | |
| 03/30/2009 12:54 | H | |
| 03/30/2009 13:54 | H | |
| 03/30/2009 14:54 | H | |
| 03/30/2009 15:54 | H | |
| 03/30/2009 16:54 | H | |
| 03/30/2009 17:54 | H | |
| 03/30/2009 18:54 | H | |
| 03/30/2009 19:54 | H | |
| 03/30/2009 20:54 | H | |
| 03/30/2009 21:54 | H | |
| 03/30/2009 22:54 | H | |
| 03/30/2009 23:54 | H | |
| 03/31/2009 00:54 | H | |
| 03/31/2009 01:54 | H | |
| 03/31/2009 02:54 | H | |
| 03/31/2009 03:54 | H | |
| 03/31/2009 04:54 | H | |
| 03/31/2009 05:54 | H | |
| 03/31/2009 06:54 | H | |
| 03/31/2009 07:54 | H | |
| 03/31/2009 08:54 | H | |
| 03/31/2009 09:54 | H | |
| 03/31/2009 10:54 | H | |
| 03/31/2009 11:54 | H | |
| 03/31/2009 12:54 | H | |
| 03/31/2009 13:54 | H | |

| | |
|---|---|
| 03/31/2009 14:54 H | * |
| 03/31/2009 15:54 H | * |
| 03/31/2009 16:54 H | * |
| ( 1/2009 17:54 H | 0.01 |
| 03/31/2009 18:54 H | 0.0001 |
| 03/31/2009 19:54 H | * |
| 03/31/2009 20:54 H | * |
| 03/31/2009 21:54 H | * |
| 03/31/2009 22:54 H | * |
| 03/31/2009 23:54 H | * |
| 04/01/2009 00:54 H | * |
| 04/01/2009 01:54 H | * |
| 04/01/2009 02:54 H | * |
| 04/01/2009 03:54 H | 0.0001 |
| 04/01/2009 04:54 H | 0.05 |
| 04/01/2009 05:54 H | 0.18 |
| 04/01/2009 06:54 H | 0.01 |
| 04/01/2009 07:54 H | 0.03 |
| 04/01/2009 08:54 H | 0.0001 |
| 04/01/2009 09:54 H | 0.01 |
| ( 1/2009 10:54 H | * |
| **Sum** | 0.42 |
| **Average** $1/n \sum a_i$ | 0 |
| **Mean** *(max+min)/2* | 0.1 |
| **High** | 0.2 |
| **Low** | 0 |

**Quality Control flags that may appear above**

| | | |
|---|---|---|
| * | 70 | Not yet quality checked |
| R | 0 | Possible range failure |
| B | 0 | Possible buddy check failure |
| N | 0 | Data point differs from NCDC data set |
| E | 0 | Extracted/Augmented from NCDC Surface Airways Data |
| A | 0 | Augmented from old AgNet files |
| M | | Recovered from the Bulletin Board System from 1978-1992 |
| P | 0 | Precipitation Estimate from RADAR |
| Q | | Value from NCDC's Quality-Controlled LCD |

NC CRONOS Database version 2.7.2
Query script last modified Mar 31, 2009 17:35:22
Page expelled in 0.082 secs.

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: NIC/0/0/0/0/3/9/6/ or Certificate of Coverage No.: NIC/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marisa Keezel
Date of Inspection: 10-8-08

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marisa Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW4 Structure (pipe, ditch, etc.) Concrete pipe to east ash storage; then swale to Lake Julian
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of RAW MATERIALS

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) NONE

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File. 12520 K

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Maria Kerzel
Date of Inspection: 10-8-08

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Maria Kerzel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-3 Structure (pipe, ditch, etc.) Concrete pipe to rock lined ditch.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor.

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10

File. 12520 K

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/ 0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marien Keezel
Date of Inspection: 10-8-08

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marien Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-5 Structure (pipe, ditch, etc.) Corrugated pipe & concrete ditch to spillway
Receiving Stream: An Unnamed tributary to Powell Creek
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of RAW materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

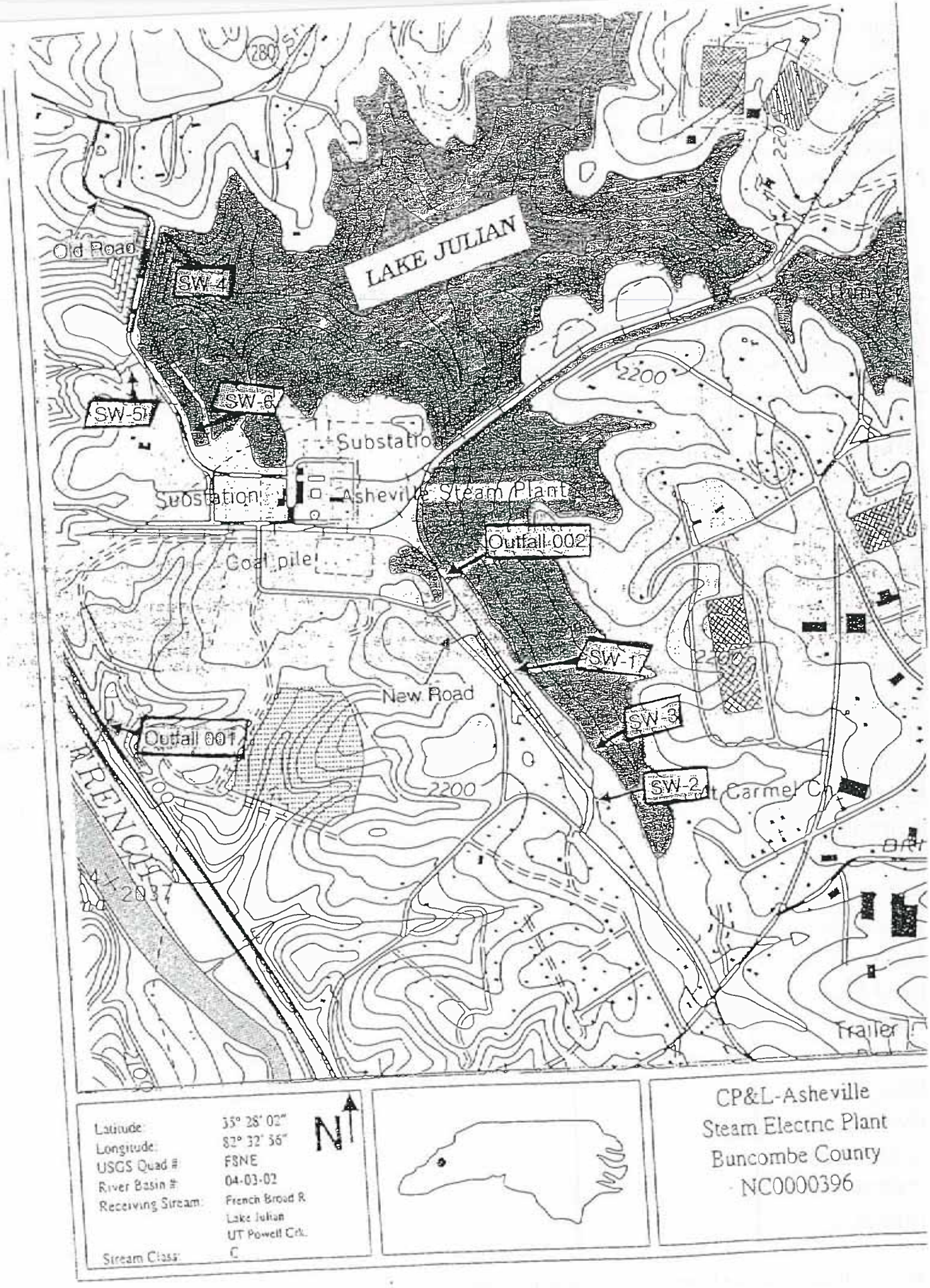
4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599


LAKE JULIAN
Old Road
SW-4
SW-5
SW-6
Substation
Substation
Asheville Steam Plant
Outfall 002
Coal pile
SW-1
New Road
SW-3
SW-2
Outfall 001
2200
Trailer
Latitude: 35° 28' 02"
Longitude: 82° 32' 36"
USGS Quad #: F8NE
River Basin #: 04-03-02
Receiving Stream: French Broad R.
Lake Julian
UT Powell Crk.
Stream Class: C
N
CP&L-Asheville
Steam Electric Plant
Buncombe County
NC0000396

| | |
|---|---|
| 10/02/2008 23:54 H | * |
| 10/03/2008 00:54 H | * |
| 10/03/2008 01:54 H | * |
| )3/2008 02:54 H | * |
| 10/03/2008 03:54 H | * |
| 10/03/2008 04:54 H | * |
| 10/03/2008 05:54 H | * |
| 10/03/2008 06:54 H | * |
| 10/03/2008 07:54 H | * |
| 10/03/2008 08:54 H | * |
| 10/03/2008 09:54 H | * |
| 10/03/2008 10:54 H | * |
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| 10/03/2008 12:54 H | * |
| 10/03/2008 13:54 H | * |
| 10/03/2008 14:54 H | * |
| 10/03/2008 15:54 H | * |
| 10/03/2008 16:54 H | * |
| 10/03/2008 17:54 H | * |
| )3/2008 18:54 H | * |
| 10/03/2008 19:54 H | * |
| 10/03/2008 20:54 H | * |
| 10/03/2008 21:54 H | * |
| 10/03/2008 22:54 H | * |
| 10/03/2008 23:54 H | * |
| 10/04/2008 00:54 H | * |
| 10/04/2008 01:54 H | * |
| 10/04/2008 02:54 H | * |
| 10/04/2008 03:54 H | * |
| 10/04/2008 04:54 H | * |
| 10/04/2008 05:54 H | * |
| 10/04/2008 06:54 H | * |
| 10/04/2008 07:54 H | * |
| 10/04/2008 08:54 H | * |
| 10/04/2008 09:54 H | * |
| 04/2008 10:54 H | * |
| 10/04/2008 11:54 H | * |
| 10/04/2008 12:54 H | * |

| | |
|---|---|
| 10/06/2008 03:54 H | * |
| 10/06/2008 04:54 H | * |
| 10/06/2008 05:54 H | * |
| 06/2008 06:54 H | * |
| 10/06/2008 07:54 H | * |
| 10/06/2008 08:54 H | * |
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| 10/06/2008 10:54 H | * |
| 10/06/2008 11:54 H | * |
| 10/06/2008 12:54 H | * |
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| 10/06/2008 16:54 H | * |
| 10/06/2008 17:54 H | * |
| 10/06/2008 18:54 H | * |
| 10/06/2008 19:54 H | * |
| 10/06/2008 20:54 H | * |
| 10/06/2008 21:54 H | * |
| 06/2008 22:54 H | * |
| 10/07/2008 00:54 H | * |
| 10/07/2008 01:54 H | * |
| 10/07/2008 02:54 H | * |
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| 10/07/2008 05:54 H | * |
| 10/07/2008 06:54 H | * |
| 10/07/2008 07:54 H | * |
| 10/07/2008 08:54 H | * |
| 10/07/2008 09:54 H | * |
| 10/07/2008 10:54 H | * |
| 10/07/2008 11:54 H | * |
| 10/07/2008 12:54 H | * |
| 10/07/2008 13:54 H | * |
| 10/07/2008 14:54 H | * |
| 07/2008 15:54 H | * |
| 10/07/2008 16:54 H | * |
| 10/07/2008 17:54 H | * |

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marica H. Keezel
Date of Inspection: 05-12-08

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marica H. Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-1 Structure (pipe, ditch, etc.) Concrete pipe to east car storage; th
Receiving Stream: Lake Julian swale to Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/0/0/1/3/7/1/6/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: MARIA N KEEZEL
Date of Inspection: 05-16-08

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marian N Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-2 Structure (pipe, ditch, etc.) Rock lined ditch to earthen swale.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of RAW materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/1/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-657-5230
Inspector: Marien N Keezel
Date of Inspection: 05-16-08

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marien N Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-3 Structure (pipe, ditch, etc.) Concrete pipe to rock lined ditch.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of RHW materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/1/3/9/1/6/1 or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_

Facility Name: Asheville Steam Electric Plant

County: Buncombe Phone No. 828-637-5230

Inspector: Marian N. Keezel

Date of Inspection: 05-16-03

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marian N. Keezel

(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-4 Structure (pipe, ditch, etc.) Earthen ditch to rip rap lake bank.

Receiving Stream: Lake Julian

Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of RAW MATERIALS

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) NO ODOR

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-657-5230
Inspector: Marien N. Keezel
Date of Inspection: 05/16/08

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marien N Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-5 Structure (pipe, ditch, etc.) Corrugated pipe & concrete ditch & soilway
Receiving Stream: Unnamed tributary to Powell Creek
Describe the industrial activities that occur within the outfall drainage area: Plant access road for delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

File: 12520R

# Stormwater Discharge Outfall (SDO) Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. 828-687-5230
Inspector: Marien H Keezel
Date of Inspection: 05-16-08

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Marien H Keezel
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-6 Structure (pipe, ditch, etc.) Grassy swale to concrete pipe.
Receiving Stream: Settling pond to Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant Access Road for the delivery of Raw Materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Slightly light Red dingy color due to infiltration of Red clay through pipe joint.

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

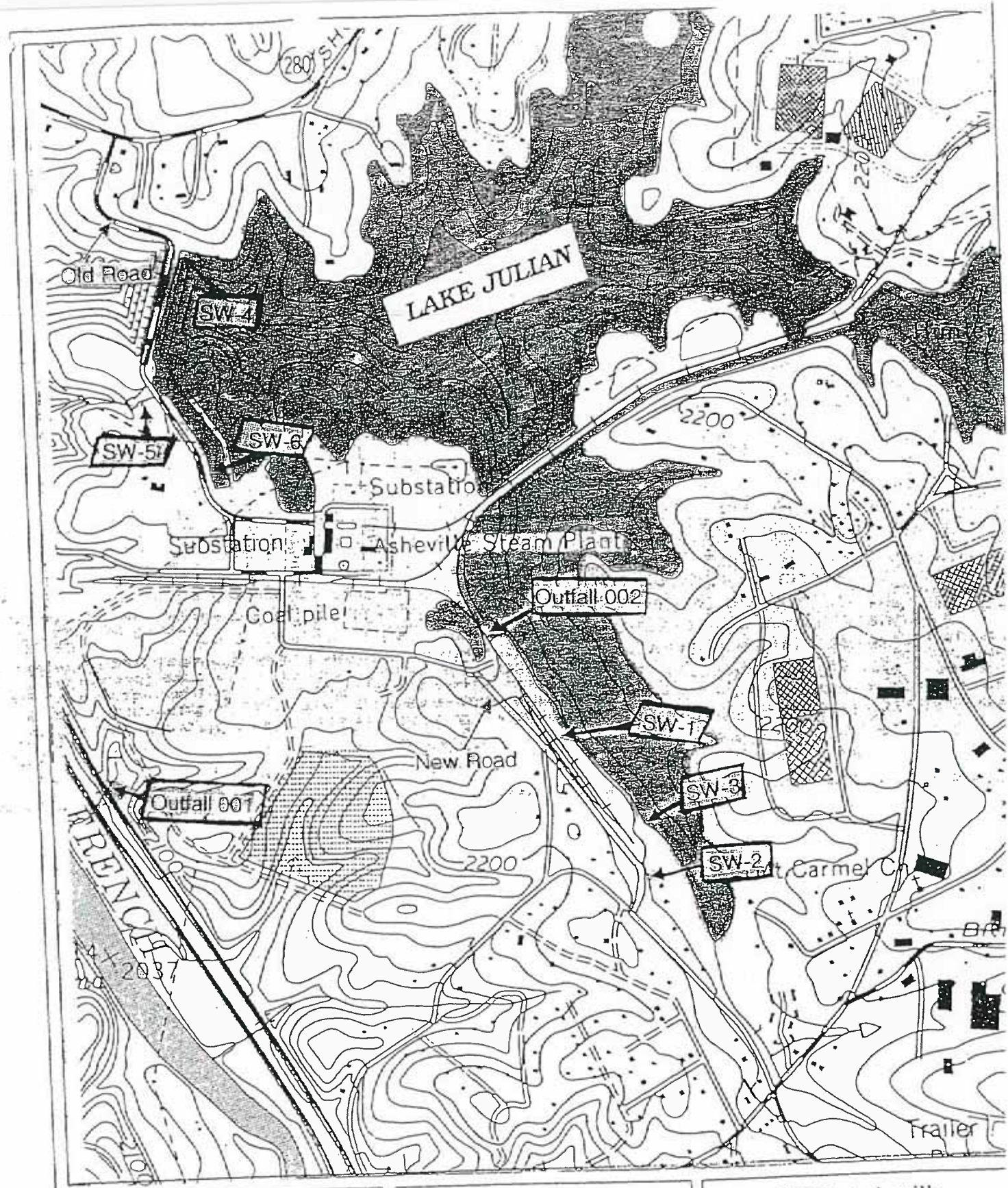
4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

1 (2) 3 4 5 6 7 8 9 10

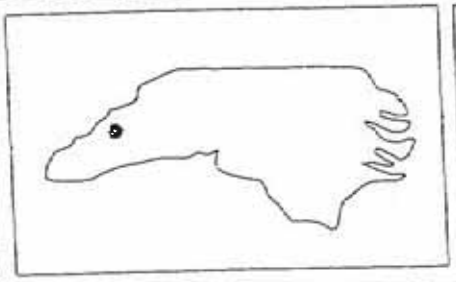


SWU-242-101599




| | |
|---|---|
| Latitude: | 35° 28' 02" |
| Longitude: | 82° 32' 56" |
| USGS Quad #: | F8NE |
| River Basin #: | 04-03-02 |
| Receiving Stream: | French Broad R<br>Lake Julian<br>UT Powell Crk. |
| Stream Class: | C |

N



CP&L-Asheville
Steam Electric Plant
Buncombe County
NC0000396

Station: KAVL - Asheville Regional Airport Date of first observation: January 1, 1948

Station type: ASOS - Standard

City, State: Asheville, NC County: Buncombe County

Latitude: 35.4361944° Longitude: -82.5418056°

Elevation: 2165 feet above sea level

Climate division: NC01 - Southern Mountains

River basin: French Broad

Supported by: NOAA National Weather Service

This page is created dynamically and should not be bookmarked. Instead, bookmark the page preceeding this.

## Retrieving hourly data from Asheville Regional Airport for past 3 day(s)

80 observations for this period of record (96.4% data available; 3 missing records)

*If you need more historical data from a larger period of record, please contact us for assistance*

| ? Date/Time of ob (Eastern Standard Time) | Hourly Precipitation at 2m (in) |
|---|---|
| 05/13/2008 00:54 H | * |
| 05/13/2008 01:54 H | * |
| 05/13/2008 02:54 H | * |
| 05/13/2008 03:54 H | * |
| 05/13/2008 04:54 H | * |
| 05/13/2008 05:54 H | * |
| 05/13/2008 06:54 H | * |
| 05/13/2008 07:54 H | * |
| 05/13/2008 08:54 H | * |
| 05/13/2008 09:54 H | * |
| 05/13/2008 10:54 H | * |
| 05/13/2008 11:54 H | * |
| 05/13/2008 12:54 H | * |
| 05/13/2008 13:54 H | * |
| 05/13/2008 14:54 H | * |
| 05/13/2008 15:54 H | * |
| 05/13/2008 16:54 H | * |
| 05/13/2008 17:54 H | * |
| 05/13/2008 18:54 H | * |
| 05/13/2008 19:54 H | * |
| 05/13/2008 20:54 H | * |
| 05/13/2008 21:54 H | * |
| 05/13/2008 22:54 H | * |
| 05/13/2008 23:54 H | * |
| 05/14/2008 00:54 H | * |

| | |
|---|---|
| 05/14/2008 01:54 H | |
| 05/14/2008 02:54 H | |
| 05/14/2008 03:54 H | |
| 05/14/2008 04:54 H | |
| 05/14/2008 05:54 H | |
| 05/14/2008 06:54 H | |
| 05/14/2008 07:54 H | |
| 05/14/2008 08:54 H | |
| 05/14/2008 09:54 H | |
| 05/14/2008 10:54 H | |
| 05/14/2008 11:54 H | |
| 05/14/2008 12:54 H | 0.01 |
| 05/14/2008 13:54 H | 0.01 |
| 05/14/2008 14:54 H | 0.0001 |
| 05/14/2008 15:54 H | |
| 05/14/2008 16:54 H | |
| 05/14/2008 17:54 H | |
| 05/14/2008 18:54 H | |
| 05/14/2008 19:54 H | |
| 05/14/2008 20:54 H | |
| 05/14/2008 21:54 H | 0.0001 |
| 05/14/2008 22:54 H | 0.0001 |
| 05/14/2008 23:54 H | |
| 05/15/2008 00:54 H | 0.0001 |
| 05/15/2008 01:54 H | 0.0001 |
| 05/15/2008 02:54 H | |
| 05/15/2008 03:54 H | |
| 05/15/2008 04:54 H | |
| 05/15/2008 06:54 H | |
| 05/15/2008 07:54 H | |
| 05/15/2008 08:54 H | 0.0001 |
| 05/15/2008 09:54 H | |
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| 05/15/2008 12:54 H | |
| 05/15/2008 13:54 H | |
| 05/15/2008 14:54 H | 0.04 |
| 05/15/2008 15:54 H | 0.04 |
| 05/15/2008 16:54 H | 0.01 |
| 05/15/2008 17:54 H | 0.0001 |
| 05/15/2008 18:54 H | 0.0001 |

| | |
|---|---|
| 05/15/2008 19:54 H | 0.01 |
| 05/15/2008 20:54 H | 0.0001 |
| 05/15/2008 21:54 H | 0.02 |
| 05/15/2008 22:54 H | 0.05 |
| 05/15/2008 23:54 H | 0.02 |
| 05/16/2008 00:54 H | 0.01 |
| 05/16/2008 01:54 H | 0.0001 |
| 05/16/2008 02:54 H | * |
| 05/16/2008 03:54 H | * |
| 05/16/2008 04:54 H | * |
| 05/16/2008 05:54 H | * |
| 05/16/2008 06:54 H | * |
| 05/16/2008 07:54 H | * |
| 05/16/2008 08:54 H | * |
| **Sum** | 0.22 |
| **Average** $1/n \sum a_i$ | 0 |
| **Mean** *(max+min)/2* | 0 |
| **High** | 0.1 |
| **Low** | 0 |

Sum = .2004
05/15/08 @ 14:54 then
05/16/08 @ 01:54

**Quality Control flags that may appear above**

| | | |
|---|---|---|
| * | 60 | Not yet quality checked |
| R | 0 | Possible range failure |
| B | 0 | Possible buddy check failure |
| N | 0 | Data point differs from NCDC data set |
| E | 0 | Extracted/Augmented from NCDC Surface Airways Data |
| A | 0 | Augmented from old AgNet files |
| M | 0 | Recovered from the Bulletin Board System from 1978-1992 |
| P | 0 | Precipitation Estimate from RADAR |

NC CRONOS Database version 2.7.1
Query script last modified Feb 19, 2008 13:52:19
Page expelled in 0.141 secs.

File: 12520 R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/ 0/ 0/ 0/ 0/ 3/ 9/ 6/ or Certificate of Coverage No.: N/C/G/ _/ _/ _/ _/ _/ _/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 10-22-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-1 Structure (pipe, ditch, etc.) Concrete pipe to east railcar storage; then
Receiving Stream: Lake Julian swale to Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No Odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/__/__/__/__/__/__/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 10-22-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-2 Structure (pipe, ditch, etc.) Rock lined ditch to earthen swale.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/ 0/ 0/ 0/ 0/ 3/ 9/ 6/ or Certificate of Coverage No.: N/C/G/ _/ _/ _/ _/ _/ _/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 10-22-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-3 Structure (pipe, ditch, etc.) Concrete pipe to rock lined ditch.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/3/9/6/ or Certificate of Coverage No.: N/C/G/__/__/__/__/__/__/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 10-22-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-4 Structure (pipe, ditch, etc.) Earthen swale to rip-rap lake bank.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/ 0/ 0/ 0/ 0/ 3/ 9/ 6/ or Certificate of Coverage No.: N/C/G/ _/ _/ _/ _/ _/ _/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 10-22-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-5 Structure (pipe, ditch, etc.) Corrugated pipe & concrete ditch to spill
Receiving Stream: An unnamed tributary to Powell Creek.
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/3/9/6/ or Certificate of Coverage No.: N/C/G/__/__/__/__/__/__/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 10-22-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-6 Structure (pipe, ditch, etc.) Grassy swale to concrete pipe.
Receiving Stream: Settling pond to Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

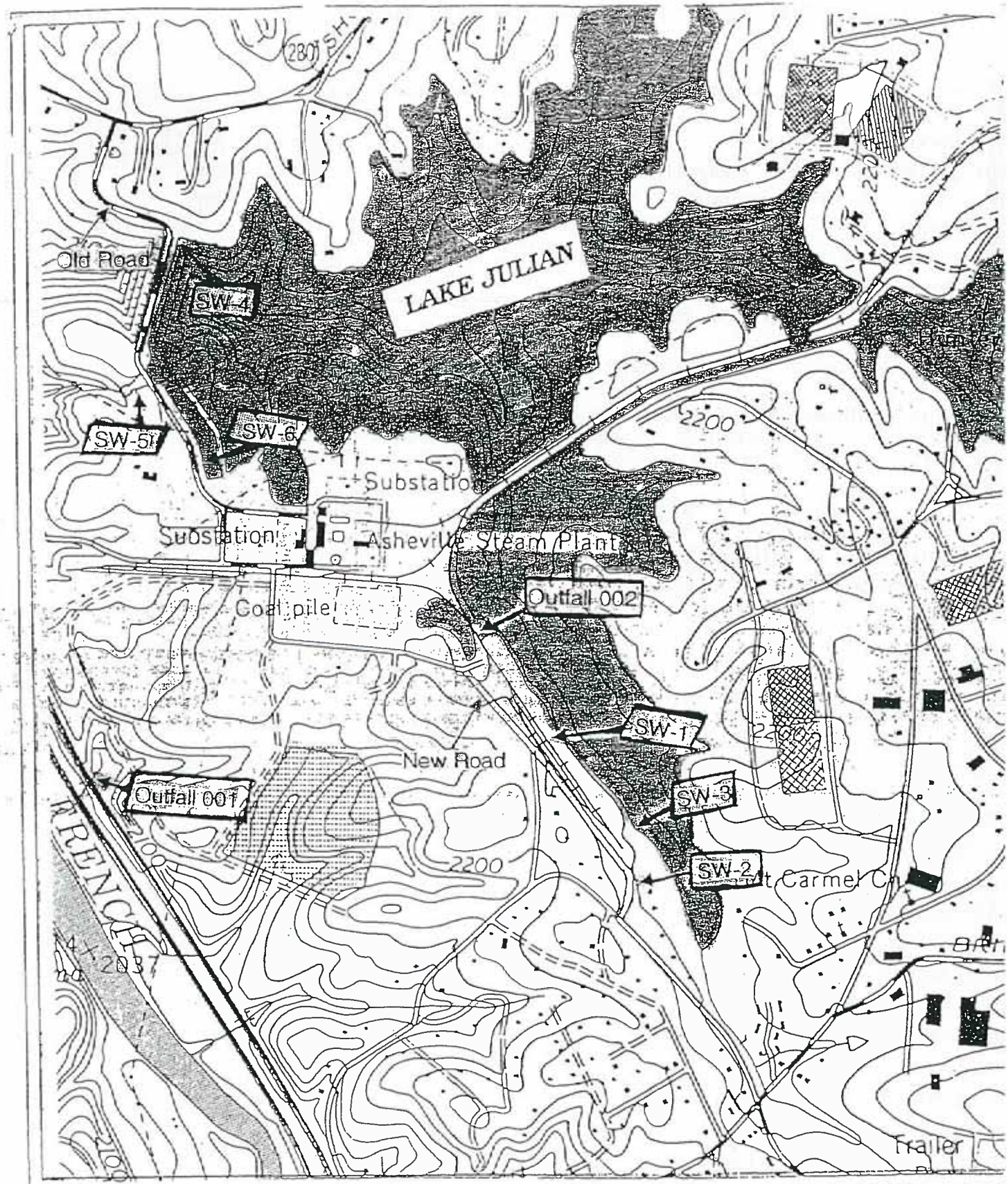
4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599




| | |
|---|---|
| Latitude: | 35° 28′ 02″ |
| Longitude: | 82° 32′ 56″ |
| USGS Quad #: | FSNE |
| River Basin #: | 04-03-02 |
| Receiving Stream: | French Broad R.<br>Lake Julian<br>UT Powell Crk. |
| Stream Class: | C |

N

CP&L-Asheville
Steam Electric Plant
Buncombe County
NC0000396

| | |
|---|---|
| 10/22/2007 23:54 H | 0.02 |
| 10/23/2007 02:54 H | 0.02 |
| 23/2007 03:54 H | 0.02 |
| 10/23/2007 04:54 H | 0.05 |
| **Sum** | 0.39 |
| **Average** $1/n \sum a_i$ | 0 |
| **Mean** *(max+min)/2* | 0 |
| **High** | 0.1 |
| **Low** | 0 |

**Quality Control flags that may appear above**

| | | |
|---|---|---|
| | 7 | Not yet quality checked |
| R | 0 | Possible range failure |
| B | 0 | Possible buddy check failure |
| | 0 | Data point differs from NCDC data set |
| E | 0 | Extracted/Augmented from NCDC Surface Airways Data |
| A | 0 | Augmented from old AgNet files |
| M | 0 | Recovered from the Bulletin Board System from 1978-1992 |
| P | 0 | Precipitation Estimate from RADAR |

NC CRONOS Database version 2.7.0
Query script last modified Oct 15, 2007 17:52:48
Page expelled in 0.042 secs.

File: 12520 R

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/1/0/1/0/1/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 657-5249
Inspector: Regina G. Elledge
Date of Inspection: 6-25-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina D. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-1 Structure (pipe, ditch, etc.) Concrete pipe to east railcar storage, then
Receiving Stream: Lake Julian swale to Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 6-25-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-2 Structure (pipe, ditch, etc.) Rock lined ditch to earthen swale.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 6-25-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina D Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-3 Structure (pipe, ditch, etc.) Concrete Pipe to rock lined ditch
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe. Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 6-25-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-4 Structure (pipe, ditch, etc.) Earthen ditch to rip-rap lake bank.
Receiving Stream: Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No Odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 06-25-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina G. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-5 Structure (pipe, ditch, etc.) Corrugated p.pe & concrete ditch to Sp.llway
Receiving Stream: An unnamed tributary to Powell Creek.
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No Odor

4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599

# Stormwater Discharge Outfall (SDO)
# Qualitative Monitoring Report

Permit No.: N/C/0/0/0/0/3/9/6/ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/
Facility Name: Asheville Steam Electric Plant
County: Buncombe Phone No. (828) 687-5247
Inspector: Regina G. Elledge
Date of Inspection: 6-25-07

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

Regina D. Elledge
(Signature of Permittee or Designee)

1. Outfall Description

Outfall No. SW-6 Structure (pipe, ditch, etc.) Grassy swale to concrete p.p.
Receiving Stream: Settling pond to Lake Julian
Describe the industrial activities that occur within the outfall drainage area: Plant access road for the delivery of raw materials.

2. Color

Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: Clear

3. Odor

Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.) No Odor

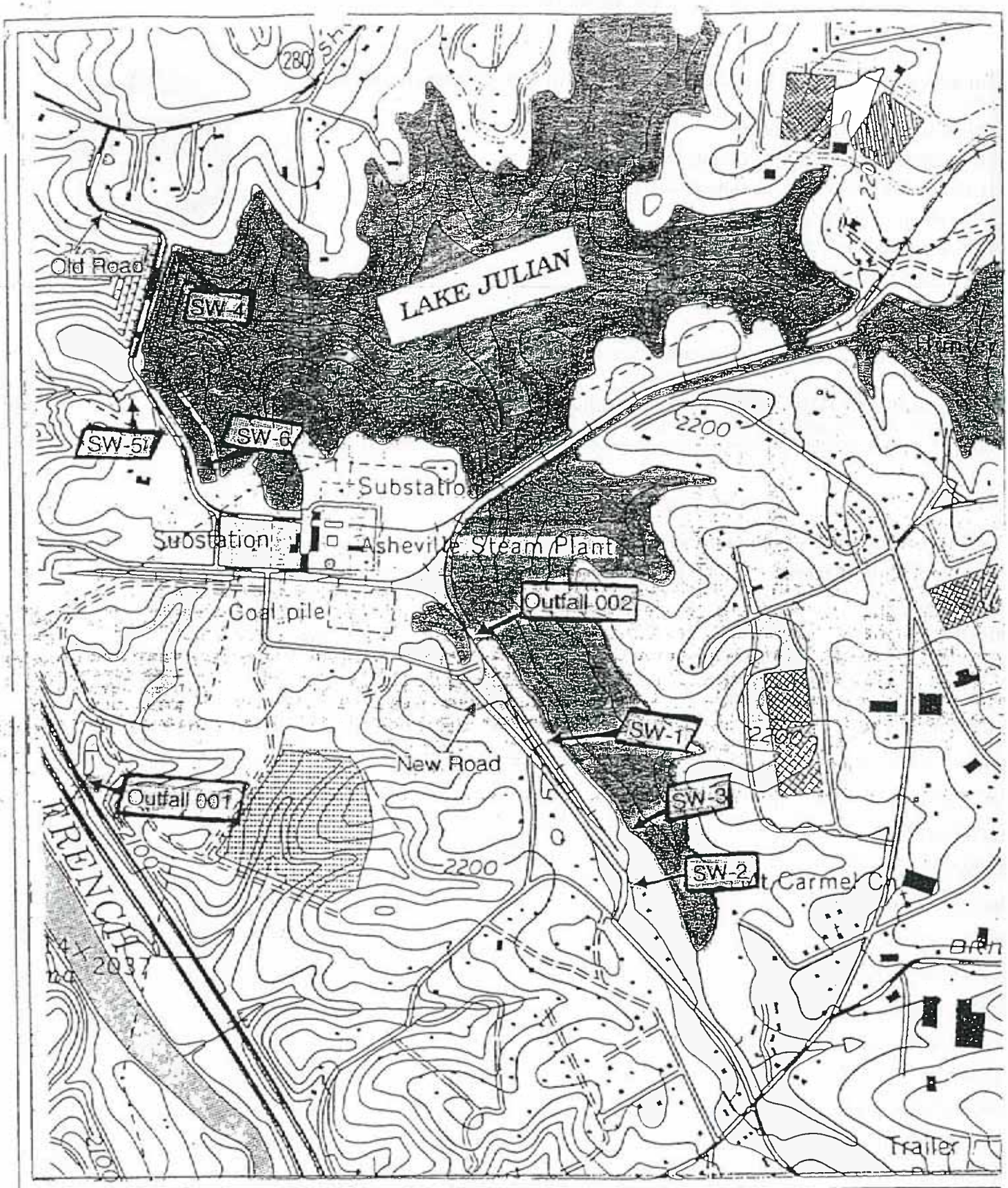
4. Clarity

Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy:

(1) 2 3 4 5 6 7 8 9 10



SWU-242-101599




| | |
|---|---|
| Latitude: | 35° 28' 02" |
| Longitude: | 82° 32' 56" |
| USGS Quad #: | F8NE |
| River Basin #: | 04-03-02 |
| Receiving Stream: | French Broad R.<br>Lake Julian<br>UT Powell Crk |
| Stream Class: | C |

N

CP&L-Asheville
Steam Electric Plant
Buncombe County
NC0000396

| | | |
|---|---|---|
| 06/24/2007 22:54 | H | |
| 24/2007 23:54 | H | |
| 06/25/2007 00:54 | H | |
| 06/25/2007 01:54 | H | |
| 06/25/2007 02:54 | H | |
| 06/25/2007 03:54 | H | |
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| 06/26/2007 03:54 | H | |
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| 06/26/2007 06:54 | H | |
| 26/2007 07:54 | H | |
| 06/26/2007 08:54 | H | |

NC CRONOS Database version 2.6.0 beta
Query script last modified Apr 05, 2007 13:41:06

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| 06/25/2007 02:00 H | 0 |
| 25/2007 03:00 H | 0 |
| 06/25/2007 04:00 H | 0 |
| 06/25/2007 05:00 H | 0 |
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| 06/25/2007 12:00 H | 0 |
| 06/25/2007 13:00 H | 0.11 |
| 06/25/2007 14:00 H | 0.09 |
| 06/25/2007 15:00 H | 0 |
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| 06/25/2007 17:00 H | 0.28 |
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| 06/26/2007 12:00 H | 0 |
| 06/26/2007 13:00 H | 0 |
| 06/26/2007 14:00 H | 0.06 |
| 06/26/2007 15:00 H | 0.03 |
| 06/26/2007 16:00 H | 0 |
| 06/26/2007 17:00 H | 0 |

Qtrly Semi Annual

# ~~Monthly~~ Outfall Inspection Form

## Access Road Stormwater Collection System*

| Date | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | Litter or Debris Observed? | Litter or Debris Removed? | Inspected by |
|---|---|---|---|---|---|---|---|---|---|
| 1/19/04 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Yes or (No) | N/A | M. Lobe<br>Selenah Seabrooks |
| 2/5/04 | ✓ | ✓ | ✓ | ✓ | – | ✓ | Yes or (No) | N/A | M. Lobe |
| 3/31/04 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Yes or (No) | N/A | SELENAH SEABROOKS |
| 5/11/04 | ✓ | ✓ | ✓ | ✓ | – | ✓ | Yes or (No) | N/A | SELENAH SEABROOKS<br>DIANE ELLEDGE |
| 9/1/04 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | (Yes) or No | Debris removed from SW-2 | Selenah Seabrooks<br>Diane Elledge<br>Marlea Bryant |
| 6/17/05 ~~/04~~ | ✓ | ✓ | ✓ | ✓ | ✓ | – | (Yes) or No | Debris removed from SW | SELENAH SEABROOKS<br>DIANE ELLEDGE |
| 10/11/05 ~~/04~~ | ✓ | ✓ | – | ✓ | – | – | Yes or ~~No~~ | | Selenah Seabrooks |
| 5/31/06 ~~/04~~ | ✓ | ✓ | ✓ | ✓ | – | – | (Yes) or No | Debris removed | SELENAH SEABROOKS<br>MARLEA BRYANT |
| 10/23/06 ~~/04~~ | ✓ | ✓ | ✓ | ✓ | ✓ | – | (Yes) or (No) | N/A | Selenah Seabrook |
| 4/25/07 ~~/04~~ | | | | | | | Yes or No | | |
| / /04 | | | | | | | Yes or No | | |
| / /04 | | | | | | | Yes or No | | |

* Includes roadside swales, ditches and collection system

**Denotes the Semi-Annual Inspection performed by the Stormwater Pollution Prevention Team

**File Pt.12520R**

Attachment 7

# Secondary Containment Basin Inspections

Perform 2X/year (Spring/Fall)

Form 201

File 12520-R-03-B NPDES Stormwater Inspections

Inspection Date: 5/20/15

Inspected by: Crystal R Biedrick

| | Description | Physical Location | Volume, gal | Condition | Comments |
|---|---|---|---|---|---|
| FOSSIL | Burn Station | Unit 1, Ground Floor, near Maintenance Shop | | Good ✓ | Some Chips noted on corners |
| | Emergency Generator Storage | Unit 2, Ground Floor. Storage tank in bottom | 200 | Good ✓ | |
| | Fire Pump Storage Tank | Fire Pump Building at Intake | 280 | Good ✓ | |
| | Light Off Storage Tank | Across railroad tracks from Ash Pond Caustic Tank | 25,000 | Good ✓ | Few hairline cracks noted, not considered a danger |
| | Oil Storage Building | North end of old Administration Building | | Good ✓ | |
| | Sulfuric Acid | At Limestone crusher tower | 5000 | Good ✓ | |
| | Hypochlorite | At lake intake | 2000 | Good ✓ | Few hairline cracks noted, not considered a danger |
| | Sodium Hydroxide - Ash Pond | South end of Unit 1 at Railroad tracks | 4000 | Good ✓ | Needs draining; few hairline cracks |
| | Sodium Hydroxide - WWT | Wastewater Treatment building | 5000 | Good ✓ | |
| | Urea Storage Tank | East end of Unit 2, near demin tanks | 15,000 | Good ✓ | |
| | Urea Dissolver Tank | East end of Unit 2, near demin tanks | 90,000 | Good ✓ | Few hairline cracks noted, not considered a danger |
| | Mobile Fuel Storage Tank | Outside Warehouse door | 500 | Good ✓ | |
| | Kerosene Storage Tank | Outside Warehouse door | 2000 | Good ✓ | |
| | Gasoline Storage Tank | Outside Warehouse door | 1000 | Good ✓ | |
| | Drum Storage by Gasoline & Kerosene Tanks | Outside Warehouse door | | Good ✓ | |
| | Transformer Oil Storage Tank | North end of Switchyard by lake. | 8000 | | TANK EMPTY ✓ |
| CT's | Bulk Oil Storage Tank | Large fuel tanks between CT unloading shed and ash pond | 1.8 MG | Good ✓ | |
| | Bulk Oil Storage Tank | Large fuel tanks between CT unloading shed and ash pond | 1.8 MG | Good ✓ | |
| | ICTG Unloading Area | CT unloading shed. Floor drains under truck unloading area. | | Good ✓ | Some cracks and chips noted, not a danger. |
| | False Start Drain Tank | Small gray tank on ground at base of CT unit 3 | 250 | Good ✓ | |
| | False Start Drain Tank | Small gray tank on ground at base of CT unit 4 | 250 | Good ✓ | |
| | Gas Separator Debris Tank | Green tank on ground of CT unit 3 (south side) | 1050 | Good ✓ | |
| | Gas Separator Debris Tank | Green tank on ground of CT unit 4 (south side) | 1050 | Good ✓ | |
| | ICTG Oil Storage Building | Directly in front of CT Warehouse | | Good ✓ | Hairline crack South East Corner |

S:\Support Services\Administration\Forms\Asheville Plant Forms\100 Laboratory\201 Secondary Containment Inspection Checklist

Attachments Page 978

Progress Energy Carolinas, Inc., Asheville Plant

# Secondary Containment Basin Inspections

Perform 2X/year (Spring/Fall)

Form 201

File 12520-R-03-B NPDES Stormwater Inspections

Inspection Date: 10/1/09

Inspected by: Marian Keezel

| | Description | Physical Location | Volume, gal | Condition | Comments |
|---|---|---|---|---|---|
| FOSSIL | Burn Station | Unit 1, Ground Floor, near Maintenance Shop | | Good | |
| | Emergency Generator Storage | Unit 2, Ground Floor. Storage tank in bottom | 200 | Good | |
| | Fire Pump Storage Tank | Fire Pump Building at Intake | 280 | Good | |
| | Light Off Storage Tank | Across railroad tracks from Ash Pond Caustic Tank | 25,000 | Good | Few hairline cracks noted, not considered a danger |
| | Oil Storage Building | North end of old Administration Building | | Good | |
| | Sulfuric Acid | At Limestone crusher tower | 5000 | Good | |
| | Hypochlorite | At lake intake | 2000 | Good | Few hairline cracks noted, not considered a danger |
| | Sodium Hydroxide - Ash Pond | South end of Unit 1 at Railroad tracks | 4000 | Good | |
| | Sodium Hydroxide - WWT | Wastewater Treatment building | 5000 | Good | |
| | Urea Storage Tank | East end of Unit 2, near demin tanks | 15,000 | Good | |
| | Urea Dissolver Tank | East end of Unit 2, near demin tanks | 90,000 | Good | Few hairline cracks noted, not considered a danger |
| | Mobile Fuel Storage Tank | Outside Warehouse door | 500 | Good | |
| | Kerosene Storage Tank | Outside Warehouse door | 2000 | Good | |
| | Gasoline Storage Tank | Outside Warehouse door | 1000 | Good | |
| | Drum Storage by Gasoline & Kerosene Tanks | Outside Warehouse door | | Good | |
| | Transformer Oil Storage Tank | North end of Switchyard by lake. | 8000 | | TANK EMPTY |
| CT's | Bulk Oil Storage Tank | Large fuel tanks between CT unloading shed and ash pond | 1.8 MG | Good | |
| | Bulk Oil Storage Tank | Large fuel tanks between CT unloading shed and ash pond | 1.8 MG | Good | |
| | ICTG Unloading Area | CT unloading shed. Floor drains under truck unloading area. | | Good | |
| | False Start Drain Tank | Small gray tank on ground at base of CT unit 3 | 250 | Good | |
| | False Start Drain Tank | Small gray tank on ground at base of CT unit 4 | 250 | Good | |
| | Gas Separator Debris Tank | Green tank on ground of CT unit 3 (south side) | 1050 | Good | |
| | Gas Separator Debris Tank | Green tank on ground of CT unit 4 (south side) | 1050 | Good | |
| | ICTG Oil Storage Building | Directly in front of CT Warehouse | | Good | |

S:\Support Services\Administration\Forms\Asheville Plant Forms\100 Laboratory\201 Secondary Containment Inspection Checklist

Attachments Page 979
Progress Energy Carolinas, Inc. Asheville Plant

# Secondary Containment Basin Inspections

Perform 2X/year (Spring/Fall)

Form 201

File 12520-R-03-B NPDES Stormwater Inspections

Inspection Date: 6/11/09

Inspected by: Marian Keezel

| | Description | Physical Location | Volume, gal | Condition | Comments |
|---|---|---|---|---|---|
| FOSSIL | Burn Station | Unit 1, Ground Floor, near Maintenance Shop | | Good | |
| | Emergency Generator Storage | Unit 2, Ground Floor. Storage tank in bottom | 200 | Good | |
| | Fire Pump Storage Tank | Fire Pump Building at Intake | 280 | Good | |
| | Light Off Storage Tank | Across railroad tracks from Ash Pond Caustic Tank | 25,000 | Good | Few hairline cracks noted, not considered a danger |
| | Oil Storage Building | North end of old Administration Building | | Good | |
| | Sulfuric Acid | At Limestone crusher tower | 5000 | Good | |
| | Hypochlorite | At lake intake | 2000 | Good | Few hairline cracks noted, not considered a danger |
| | Sodium Hydroxide - Ash Pond | South end of Unit 1 at Railroad tracks | 4000 | Good | |
| | Sodium Hydroxide - WWT | Wastewater Treatment building | 5000 | Good | |
| | Urea Storage Tank | East end of Unit 2, near demin tanks | 15,000 | Good | |
| | Urea Dissolver Tank | East end of Unit 2, near demin tanks | 90,000 | Good | Few hairline cracks noted, not considered a danger |
| | Mobile Fuel Storage Tank | Outside Warehouse door | 500 | Good | |
| | Kerosene Storage Tank | Outside Warehouse door | 2000 | Good | |
| | Gasoline Storage Tank | Outside Warehouse door | 1000 | Good | |
| | Drum Storage by Gasoline & Kerosene Tanks | Outside Warehouse door | | Good | |
| | Transformer Oil Storage Tank | North end of Switchyard by lake. | 8000 | | TANK EMPTY |
| CT's | Bulk Oil Storage Tank | Large fuel tanks between CT unloading shed and ash pond | 1.8 MG | Good | |
| | Bulk Oil Storage Tank | Large fuel tanks between CT unloading shed and ash pond | 1.8 MG | Good | |
| | ICTG Unloading Area | CT unloading shed. Floor drains under truck unloading area. | | Good | |
| | False Start Drain Tank | Small gray tank on ground at base of CT unit 3 | 250 | Good | |
| | False Start Drain Tank | Small gray tank on ground at base of CT unit 4 | 250 | Good | |
| | Gas Separator Debris Tank | Green tank on ground of CT unit 3 (south side) | 1050 | Good | |
| | Gas Separator Debris Tank | Green tank on ground of CT unit 4 (south side) | 1050 | Good | |
| | ICTG Oil Storage Building | Directly in front of CT Warehouse | | Good | |

S:\Support Services\Administration\Forms\Asheville Plant Forms\100 Laboratory\201 Secondary Containment Inspection Checklist

Attachements Page 980

Progress Energy Carolinas, Inc., Asheville Plant

# Secondary Containment Basin Inspections

Perform 2X/year (Spring/Fall)

Form 201

File 12520-R-03-B NPDES Stormwater Inspections

Inspection Date: 10/31/08

Inspected by: Marica Keezel

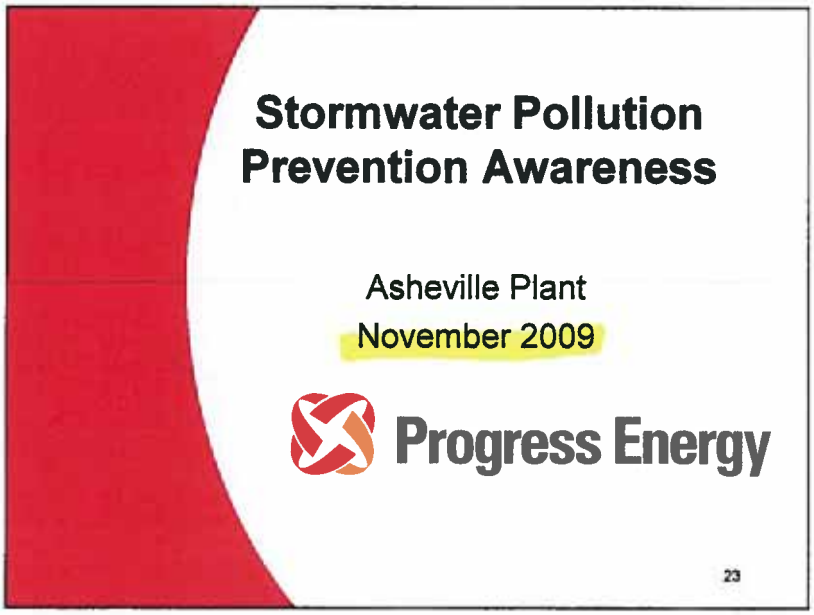
| | Description | Physical Location | Condition | Comments |
|---|---|---|---|---|
| FOSSIL | Burn Station | Unit 1, Ground Floor, near Maintenance Shop | Good | |
| | Emergency Generator Storage | Unit 2, Ground Floor. Storage tank in bottom | " | |
| | Fire Pump Storage Tank | Fire Pump Building at Intake | " | |
| | Light Off Storage Tank | Across railroad tracks from Ash Pond Caustic Tank | " | |
| | Oil Storage Building | North end of old Administration Building | " | |
| | Sulfuric Acid | At Limestone crusher tower | " | |
| | Hypochlorite | At lake intake | " | Cracks in concrete tank supports reported and required. |
| | Sodium Hydroxide - Ash Pond | South end of Unit 1 at Railroad tracks | " | |
| | Sodium Hydroxide - WWT | Wastewater Treatment building | " | |
| | Mobile Fuel Storage Tank | Outside Warehouse door | " | |
| | Kerosene Storage Tank | Outside Warehouse door | " | |
| | Gasoline Storage Tank | Outside Warehouse door | " | |
| | Drum Storage by Gasoline & Kerosene Tanks | Outside Warehouse door | " | |
| | Transformer Oil Storage Tank | North end of Switchyard by lake. | | TANK EMPTY |
| CT's | Bulk Oil Storage Tank | Large fuel tanks between CT unloading shed and ash pond | Good | |
| | Bulk Oil Storage Tank | Large fuel tanks between CT unloading shed and ash pond | " | |
| | ICTG Unloading Area | CT unloading shed. Floor drains under truck unloading area. | " | |
| | False Start Drain Tank | Small gray tank on ground at base of CT unit 3 | " | |
| | False Start Drain Tank | Small gray tank on ground at base of CT unit 4 | " | |
| | Gas Separator Debris Tank | Green tank on ground of CT unit 3 (south side) | " | |
| | Gas Separator Debris Tank | Green tank on ground of CT unit 4 (south side) | " | |
| | ICTG Oil Storage Building | Directly in front of CT Warehouse | " | |

S:\Support Services\Administration\Forms\Asheville Plant Forms\100 Laboratory\201 Secondary Containment Inspection Checklist

Attachements Page 981

Progress Energy Carolinas, Inc., Asheville Plant

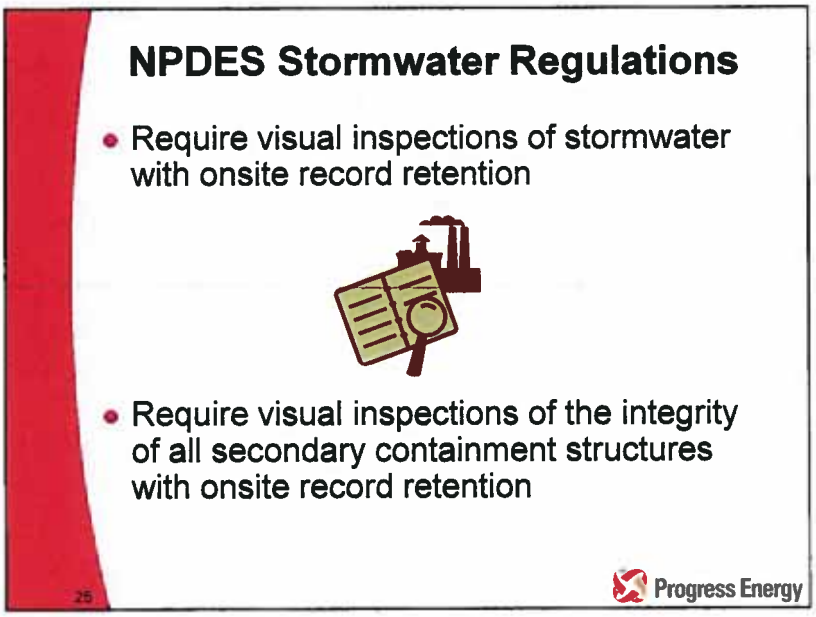
Attachment B


Stormwater Pollution
Prevention Awareness
Asheville Plant
November 2009
Progress Energy
23

Federal requirement to control the quality of stormwater associated with our industrial activities

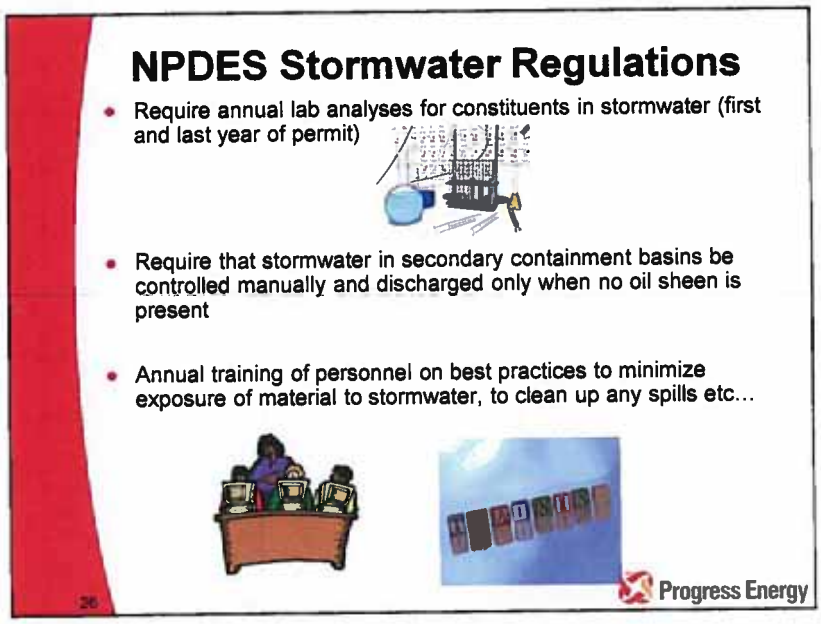
Implemented through our NPDES wastewater permit from NC Division of Water Quality

Requires a Stormwater Pollution Prevention Plan that addresses best management practices to control quality of storm runoff




Require visual inspections of stormwater twice a year (fall/spring) where looking for oil sheen, turbidity, color etc…with onsite record retention

Require visual inspections of the integrity of all secondary containment structures (specifically for non-oil related containers such as sulfuric acid tank, hydrazine tank, etc…) with onsite record retention




Require annual lab analyses for constituents in stormwater (first and last year of permit)

Require that stormwater in secondary containment basins be controlled manually and discharged only when no oil sheen is present. Note we have procedure for draining secondary containments.

Imperative and in the regulations that we'll have manually locked valves. An operator inspects water for a sheen before opening valve.

If a sheen (and it only takes a drop), put absorbant pads down to collect it before allowing it to drain.

If can't get it all, see if possible to let sun dry it our instead of draining.

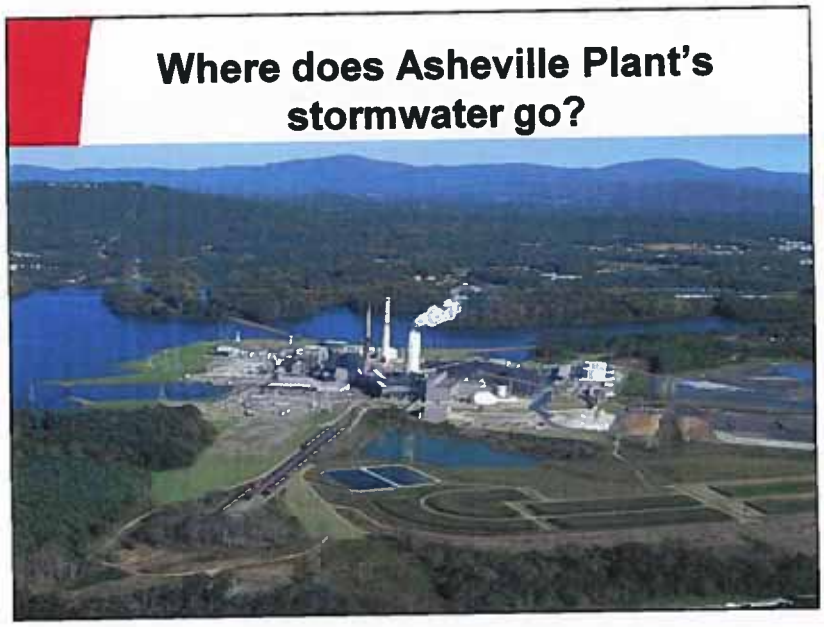
Annual training of personnel on best practices to minimize exposure of material to stormwater, to clean up any spills etc...

# Asheville Plant Stormwater Constituents

- Lube oils
- Vehicular fluids such as oil, grease, gasoline drips etc....
- Coal dust on tires
- Gypsum dust on tires
- Ash on tires
- Chemicals stored onsite that might escape secondary containment

27

Progress Energy




Ash Pond

Except for 2 admin parking lot drains that go to Lake Julian and 9 drains in 230kV switchyard that go to duck pond

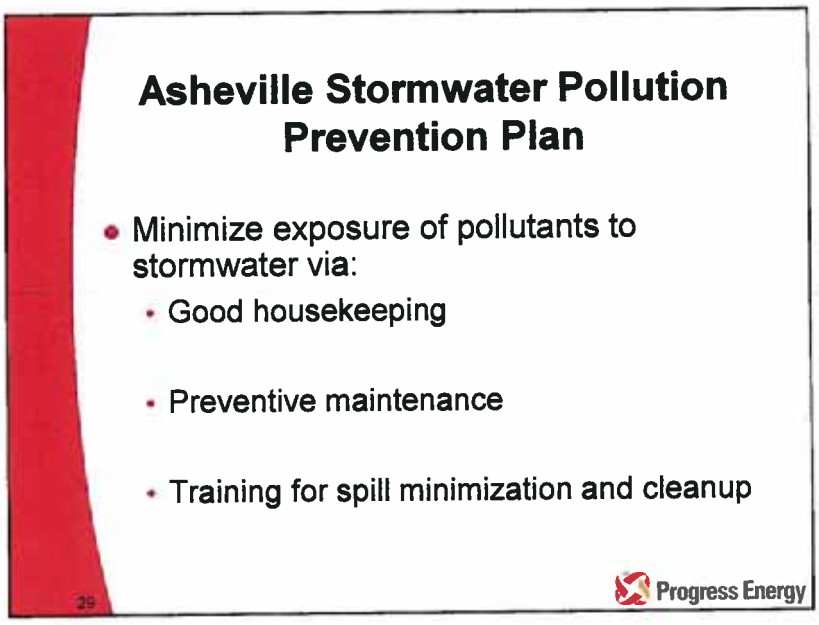
Where does the ash pond go?

French Broad River

Do top things first, then MAKE THIS POINT:

Point = Ash pond is ALL we've got between us and the river.

Don't rely on it solely. We want to capture and remove spills with dry methods versus rinsing spills to the ash pond.




The best thing we cando to minimize exposure of pollutants to stormwater is by:

READ SLIDE

## Good Housekeeping

- Routine visual inspections for leaks or conditions among all equipment
- Address spills/leaks immediately upon discovery
- Use dry cleanup methods
- Employee training on spills/cleanup
- Wash coal/ash/gypsum trucks prior to leaving site

30

Progress Energy

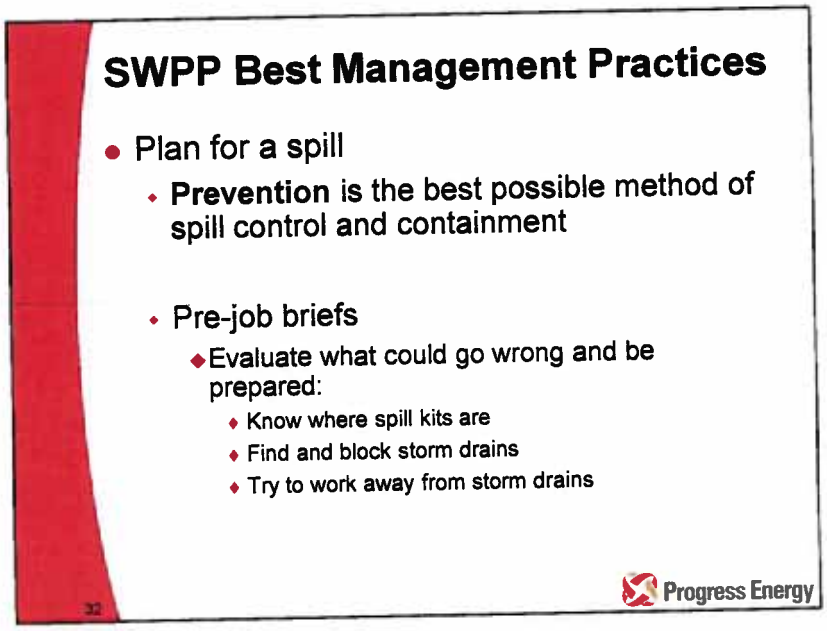
# Preventive Maintenance

- Conduct our routine PMs to keep equipment in proper working order

- Monitor and inspect our roads, contractor equipment and bulk delivery vehicles
- Periodically inspect stormwater system to address any eroding areas in grass-lined channels, swales, road embankments

Progress Energy

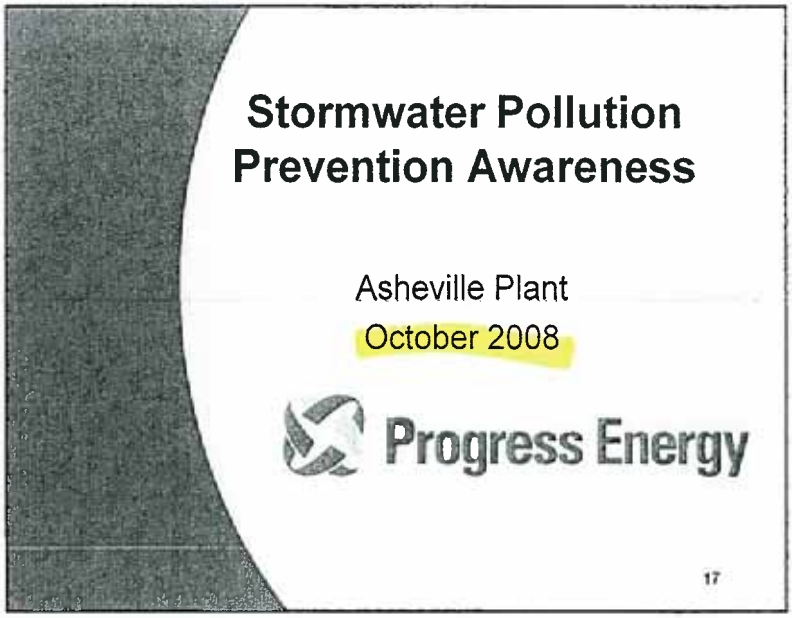
31




Same best practice for oil spills .

Need a plan. That's the best approach to everything.

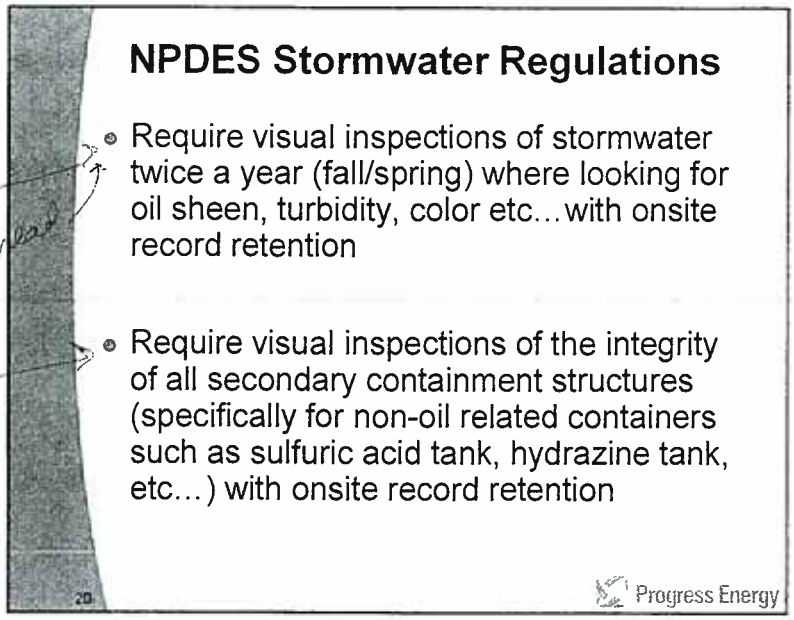
Questions?
33
Progress Energy

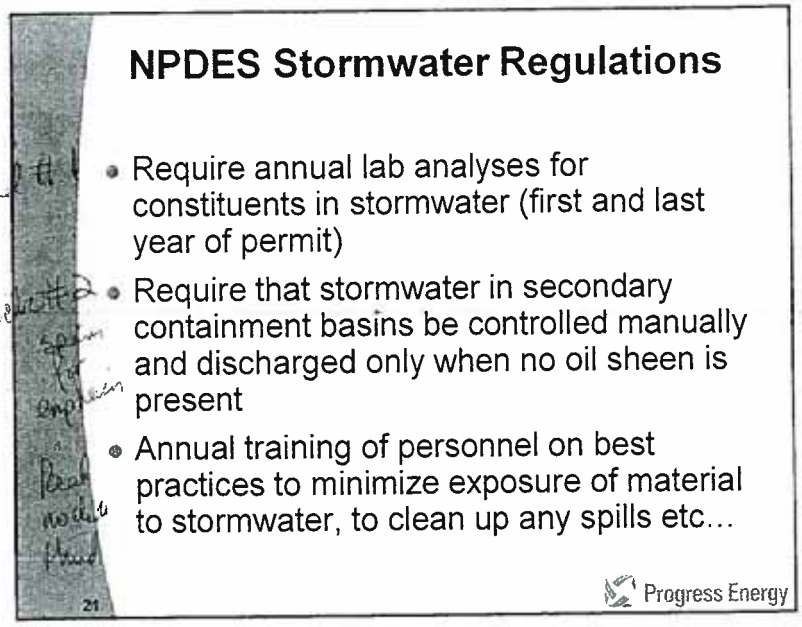

Stormwater Pollution
Prevention Awareness
Asheville Plant
October 2008
Progress Energy
17

## Stormwater Pollution Prevention Awareness

- Federal requirement to control the quality of stormwater associated with our industrial activities
- Implemented through our NPDES wastewater permit from NC Division of Water Quality
- Requires a Stormwater Pollution Prevention Plan that addresses best management practices to control quality of storm runoff

Progress Energy


NPDES Stormwater Regulations
Require visual inspections of stormwater twice a year (fall/spring) where looking for oil sheen, turbidity, color etc…with onsite record retention
Require visual inspections of the integrity of all secondary containment structures (specifically for non-oil related containers such as sulfuric acid tank, hydrazine tank, etc…) with onsite record retention
20
Progress Energy




Second bullet = our procedure respect to draining secondary containments.

Imperative and in the regulations that we'll have manually locked valves. An operator inspects water for a sheen before opening valve.

If a sheen (and it only takes a drop), put absorbant pads down to collect it before allowing it to drain.

If can't get it all, see if possible to let sun dry it our instead of draining.

## Asheville Plant Stormwater Constituents

- Lube oils
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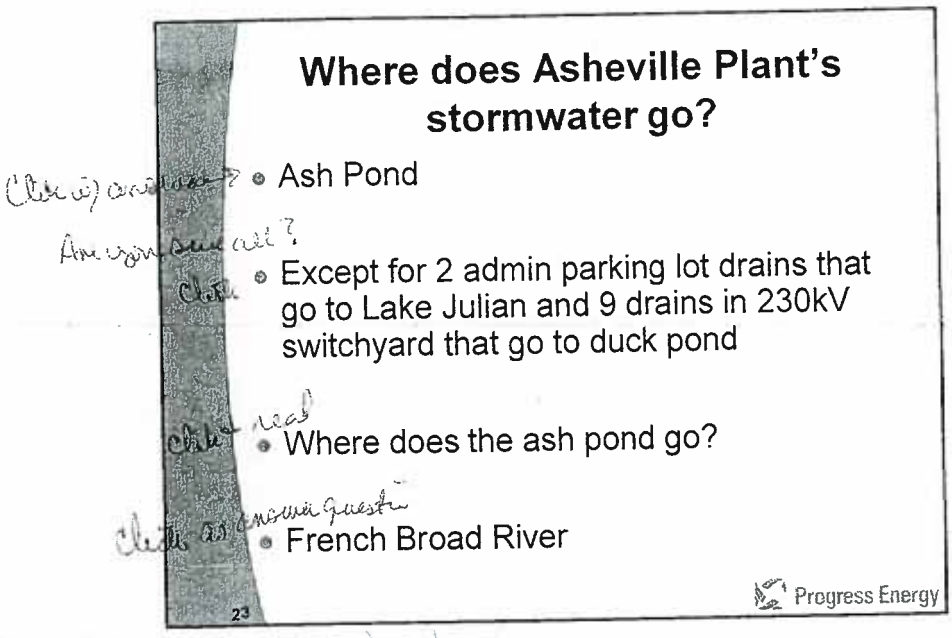
- Gypsum dust on tires
- Ash on tires
- Chemicals stored onsite that might escape secondary containment

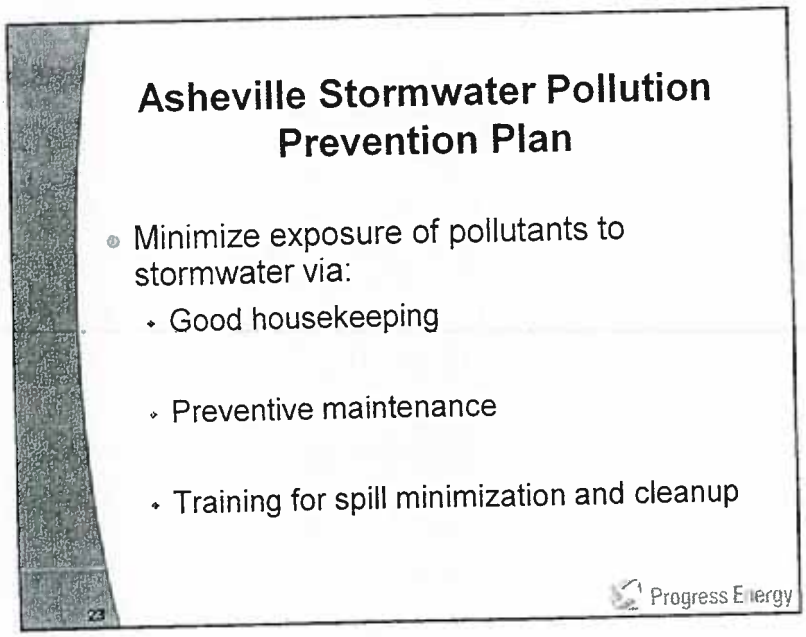
Progress Energy

21



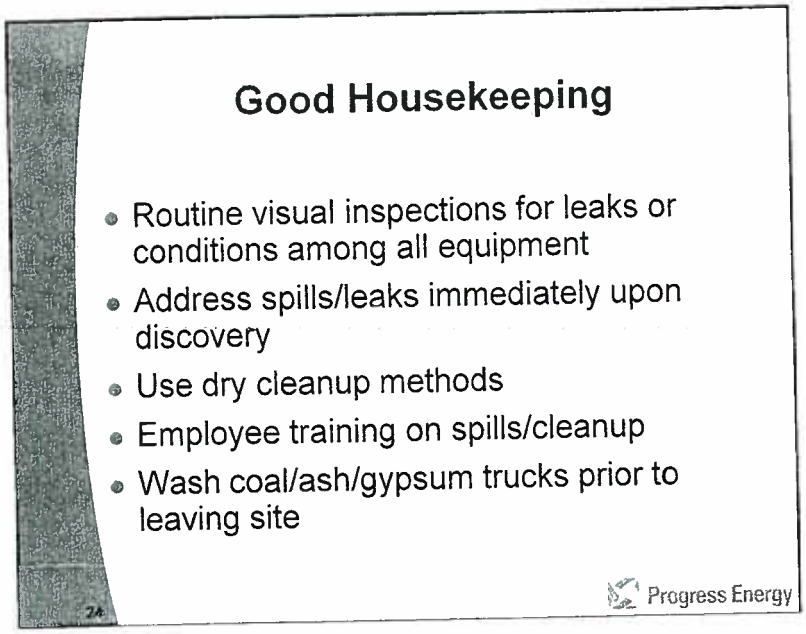

Point = Ash pond is ALL we've got between us and the river.

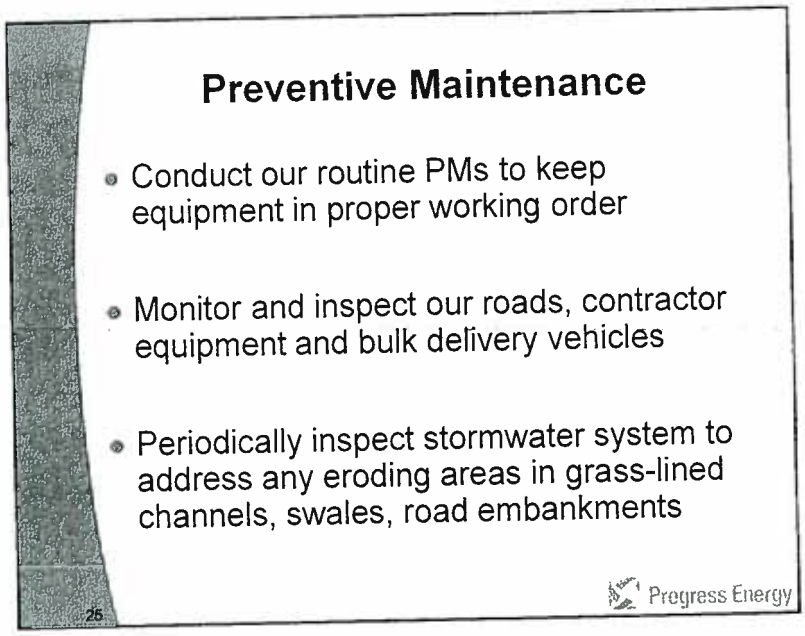
Don't rely on it solely. We want to capture and remove spills with dry methods versus rinsing spills to the ash pond.

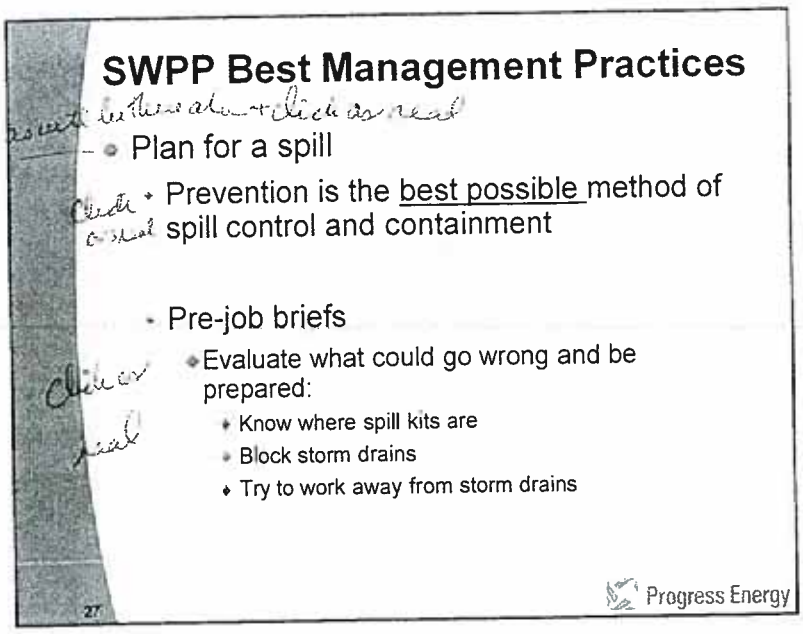



The best thing we cando to minimize exposure of pollutants to stormwater is by:

READ SLIDE


Good Housekeeping
Routine visual inspections for leaks or conditions among all equipment
Address spills/leaks immediately upon discovery
Use dry cleanup methods
Employee training on spills/cleanup
Wash coal/ash/gypsum trucks prior to leaving site
Progress Energy
24


Preventive Maintenance
Conduct our routine PMs to keep equipment in proper working order
Monitor and inspect our roads, contractor equipment and bulk delivery vehicles
Periodically inspect stormwater system to address any eroding areas in grass-lined channels, swales, road embankments
Progress Energy
25




Same best practice for oil spills .

Need a plan. That's the best approach to everything.

# Stormwater Pollution Prevention Awareness

"Asheville Plant Access Roads"

November 2007

Progress Energy

## Do we have any stormwater discharges?

- 6 stormwater outfalls including:
- 3 along the old (front) access road
- 3 along the new (back) access road
- Entire built-upon area drains to ash pond (our wastewater treatment system)

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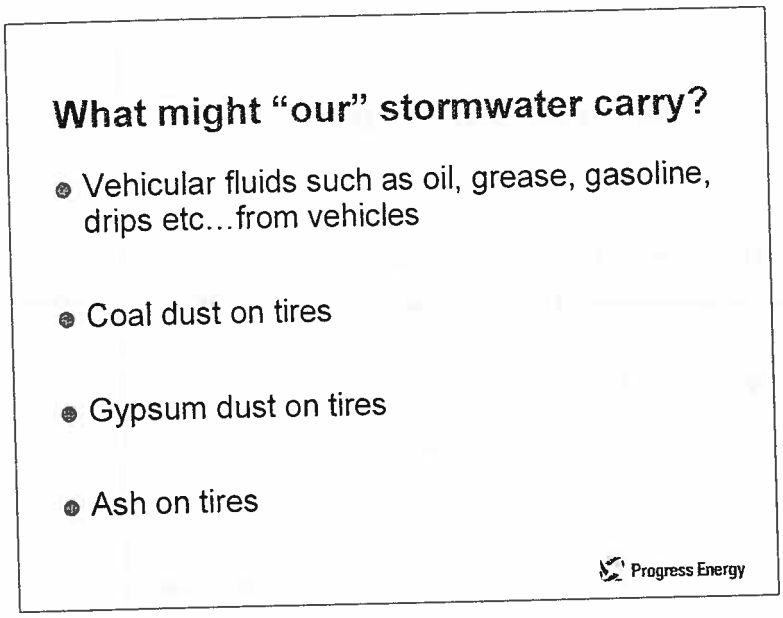
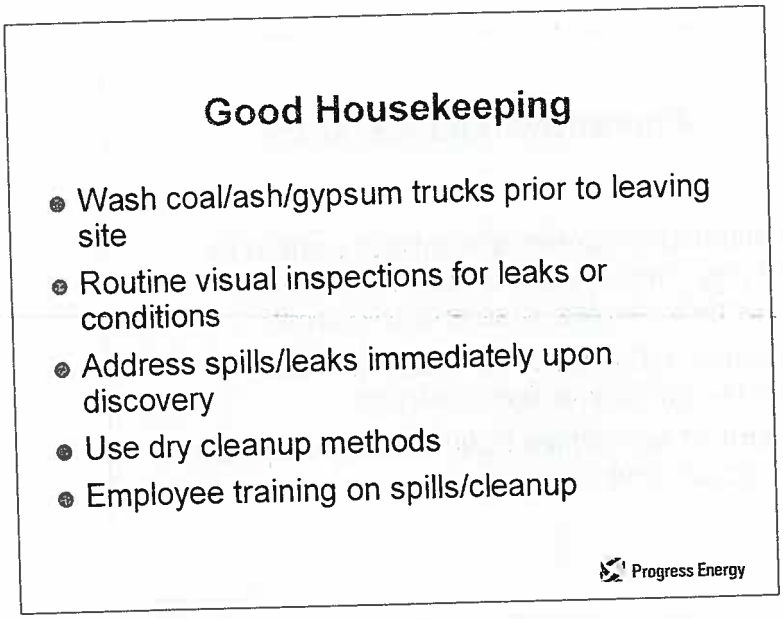



Our potential sources of pollutants are the transport of bulk chemicals, petrol, coal/ash, gypsum on the new and old access roads.

Exposure of pollutants to stormwater via spill/leaks during transport.




READ Bullet 1, 2, 3.

Dry methods so that nothing goes to ash pond if doesn't have to. Remember that the ash pond discharges to the FBR

Plant view has oil spill training. Required annual refresher.

Note we have an Asheville Plant specific oil spill prevention control and countermeasure plan (SPCC)

## Other Best Management Practices

- Familiarize yourself with location of spill kits
- Familiarize yourself with the contents of the spill kits and how to use them
- Be the company's eyes and ears for all things spill-related

  (example = secondary containment intact, locked, etc...)

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## Storm Water Pollution Prevention

February 2005

Safety Meeting

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## Storm Water Pollution Prevention

- National Pollutant Discharge Elimination System (NPDES) Special Condition A.
- Monitor and minimize the likelihood of causing storm water pollution.

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## Storm Water Pollution Prevention

- Lake Julian

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People. Performance. Excellence.

## Storm Water Pollution Prevention

- French Broad River

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## Storm Water Pollution Prevention

- Pollutants
  - Petroleum products
  - Chemicals
  - Sediments
  - Vehicle fluids
  - Coal Dust
  - Trash

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## Storm Water Pollution Prevention

- Visual examination twice a year (Spring and Fall)
- Inspect for: color, clarity, floating or suspended solids, foam, oil sheen, or odor.
- Signs of storm water pollution
- No analytical tests required.

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## Storm Water Pollution Prevention

- Analytical sampling performed first full year of permit (2002) and last year of permit (2005) during a representative storm event.
  - Oil & grease, total suspended solids, COD

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## Storm Water Pollution Prevention

- Secondary Containment
  - Visually check water for signs of pollution when draining a containment basin.
    - Color
    - Odor
    - Sheen

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## Storm Water Pollution Prevention

- Equipment maintenance
- Spill kits on mobile equipment
- Monitor and inspect plant roads, contractor trucks and bulk delivery vehicles.
- Good housekeeping

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People. Performance. Excellence

Attachment 9

COURSE [illegible]E: EV617AV/EV6191G

TOTA[illegible]OURS: 1

DATE: Novembe[illegible], 2009

TITLE: Site Specific SPCC Trg; Stormwater Pollution Prevention Trg.

INSTRUCTOR: Laurie Moorhead

LOCATION: Asheville Plant

| NAME (PRINT) | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | SIGNATURE |
|---|---|---|---|---|
| 1. Buddy Sparks | 238 08 5713 | Roller | ASVL PLT | [signature] |
| 2. Jack Case | F05644 | Roger Merrill | ASVL PLT | [signature] |
| 3. Brandon Jenkins | I17624 | McFee | ASVL PLT | [signature] |
| 4. John C. McAlister | I91824 | McFee | ASVL PLT | [signature] |
| 5. Steve Gosnell | I19294 | McFee | ASVL PLT | [signature] |
| 6 Steve South | I58513 | Roller | ASVL PLT | [signature] |
| 7. Alvin Street | 183256 | McFee | ASVL PLT | [signature] |
| 8. Clyde Boone | I19004 | Roller | ASVL PLT | [signature] |
| 9. Mark Laughter | D36349 | Roller | ASVL PLT | [signature] |
| 10. Fred Moore | I30815 | Queen | ASVL PLT | [signature] |
| 11. Richard W Horton | 186327 | Castaneut | ASVL PLT | [signature] |
| 12. Tim Randall | i27910 | Gleason | ASVL PLT | [signature] |
| 13. Brooks Robinson | I30141 | Stiles | ASVL PLT | [signature] |
| 14. Stephen Medford | I48657 | Thacker | ASVL PLT | Stephen W. Medford |
| 15. Danny Harbison | 159411 | Roller | ASVL PLT | [signature] |
| 16. Ronald Jefferson | J01255 | Castor | ASVL PLT | [signature] |

Return to Training Coordinator for Training Credit

Date Entered:

Instructor's Signature/date: Laurie L. Moorhead 11/10/09

Progress Energy

COURSE CODE: EV617AV/EV6191G

TOTAL HOURS: 1

DATE: November [illegible]

TITLE: Site Specific SPCC Trg; Stormwater Pollution Prevention Trg.

INSTRUCTOR: Laurie Moorhead

LOCATION: Asheville Plant

| NAME (PRINT) | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | SIGNATURE |
|---|---|---|---|---|
| 1. Tracie Griffin | 237-23-1280 | Bruce Lobach | ASVL PLT | |
| 2. Mike Parris | I06106 | Thacker | ASVL PLT | |
| 3. DAVE MORTENS | E29550 | BRUCE LOBACH | ASVL PLT | |
| 4. Doug Gleason | D24705 | Roger Merrill | ASVL PLT | |
| 5. Gary Roller | I42031 | Jody Thacker | ASVL PLT | |
| 6 Jennifer Brooks | I39444 | Garry Whisnant | ASVL PLT | |
| 7. Drew Pike | I56365 | Mike Thomas | ASVL PLT | |
| 8. Roger Morrill | I62291 | GARRY WHISNANT | ASVL PLT | |
| 9. ANDREW SPRAGUE | I47975 | DOUG GLEASON | ASVL PLT | |
| 10. James Buckner | I76949 | Mike Thomas | ASVL PLT | |
| 11. Eddie O'Briant | I27388 | Doug Gleason | ASVL PLT | |
| 12. James Diedrick | I62433 | Billy Queen | ASVL PLT | |
| 13. Greg Toney | i67746 | " " | ASVL PLT | |
| 14. JOHN LOVERN | i24635 | BRUCE LOBACH | ASVL PLT | |
| 15. Richard Wilson | i45415 | Billy Queen | ASVL PLT | |
| 16. Bobby Higgins | i81407 | Billy Queen | ASVL PLT | |

Return to Training Coordinator for Training Credit

Date Entered: _____

Instructor's Signature/date: Laurie L. Moorhead 11/10/09

Progress Energy

Attachements Page 1013

Progress Energy Carolinas, Inc., Asheville Plant

TITLE: Site Specific SPCC Training

| | NAME (PRINT) | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | SIGNATURE |
|---|---|---|---|---|---|
| 1. | Dwayne Kuykendall | I 17426 | Watley | ASVL PLT | Dwayne Kuykendall |
| 2. | Jeff McFee | I 19251 | THACKER | ASVL PLT | |
| 3. | Eric Anderson | E78030 | Merrill | ASVL PLT | Eric Anderson |
| 4. | Jeff Edwards | I32481 | Lobach | ASVL PLT | Jeffrey D Edwards |
| 5. | MICHAEL L. THOMAS | i 95546 | MERRILL | ASVL PLT | Michael L. Thomas |
| 6 | Tony Bailey | F55757 | Stiles | ASVL PLT | |
| 7. | Blake Parris | I 13301 | Stiles | ASVL PLT | |
| 8. | Timothy Rogers | I30332 | C. Bagwell | ASVL PLT | |
| 9. | Don. Metcalf | I 96406 | Thomas | ASVL PLT | |
| 10. | B. Underwood | I36770 | Fouts | ASVL PLT | |
| 11. | Joshua Null | E60903 | Bagwell | ASVL PLT | |
| 12. | ALVIN BUMGARNER | I 44192 | THACHER | ASVL PLT | |
| 13 | WR Stiles | I60707 | Merrill | ASVL PLT | |
| 14. | Deborah Carter | I 86351 | Whisnant | ASVL PLT | |
| 15. | TONY THACKER | I 56033 | Whisnant | ASVL PLT | |
| 16. | GARY FOUTS | I 59750 | MERRILL | ASVL PLT | |

Date Entered: _____

Return to Training Coordinator for Training Credit

Instructor's Signature/date: Lauri L. Moorhead 11/10/09

Progress Energy

COURSE CODE: EV6191G TOTAL HOURS: _____ DATE: February 8, 2005

TITLE: Stormwater Training INSTRUCTOR: Selenah Seabrooks LOCATION: Asheville Plant

| | NAME | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | GRADE | SIGNATURE |
|---|---|---|---|---|---|---|
| 1. | Gary Lipe | 245-04-0479 | Ken Landers | Asheville Plant | | Gary Lipe |
| 2. | Jack Barnett | 245-68-7971 | J Case/T Coplo | Asheville Plant | | Jack Barnett |
| 3. | Ray Marlowe | 241-66-0967 | David Watley | Asheville Plant | | Ray Marlowe |
| 4. | Glenn Wilson | 244-88-2761 | Ken Landers | Asheville Plant | | Troy S. Wilson |
| 5. | Jack Case | 245-80-5644 | Tom Copolo | Asheville Plant | | Jack Case |
| 6 | Jeff Ellis | 240-04-5291 | Deb Carter | Asheville Plant | | Jeff Ellis |
| 7. | Benny Carver | 240-04-8688 | Ken Landers | Asheville Plant | | Benny Carver |
| 8. | Billy Gant | 239-45-2958 | David Watley | Asheville Plant | | Billy Gant |
| 9. | Dennis M. Edwards | 237-37-0440 | DAVID WATLEY | Asheville Plant | | Dennis M. Edwards |
| 10. | Dwayne Kuykendall | 244-11-7426 | David Watley | Asheville Plant | | Dwayne Kuykendall |
| 11. | LAMAR BURNETTE | 239 33 9632 | DAVID WATLEY | " | | [illegible] |
| 12. | [illegible] | 242-70-4255 | Deb Carter | " | | [illegible] |
| 13. | BRUCE KENNEDY | 241-66-1362 | TIM MERRILL | " | | Bruce L Kennedy |
| 14. | CHRIS CRONAUER | 251-57-1448 | GARY FOUTS | " | | [illegible] |
| 15. | Brandon Elledge | 246-47-5351 | Mike Thomas | " | | Brandon Elledge |
| 16. | Theodore DeLozier | 244 68 1238 | B. Queen | " | | Theodore DeLozier |

Return to Training Coordinator for Training Credit Date Entered: _____

Progress Energy

Instructor's Signature/date: _____

COURSE CODE: EV6191G TOTAL HOURS: 1 DATE: November 13, 2007

TITLE: Stormwater Pollution Prevention Plan (SWPPP) INSTRUCTOR: Laurie Moorhead LOCATION: Asheville Plant

| NAME | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | GRADE | SIGNATURE |
|---|---|---|---|---|---|
| Watley, David | I83878 | Gary Whisnant | Asheville Plant | NA | [illegible] |
| Whisnant, Garry | I85463 | Mike Engl | Asheville Plant | NA | [illegible] |
| Willis, Gary | I64183 | Gary Bolton | Asheville Plant | NA | [illegible] |
| Wilson, Glen ~~Wilson, Lee~~ | I82741 | Glenn Wilson | Asheville Plant | NA | [illegible] |
| Wilson, Richard | I85125 | [illegible] | Asheville Plant | NA | [illegible] |
| 6. Wilson, ~~Glenn~~ Lee | | | | | |
| 7. NEAL, BRIAN | I69306 | JOHN MURECI | Ashe | A+ | [illegible] |
| 8. Robert Tindall | 240-02-9275 | Ray Marlowe | Ashe | NA | Robert E. Tindall |
| 9. Case, Jack | I05644 | Jesse Zarzar | Ash | | [illegible] |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |

Return to Training Coordinator for Training Credit Date Entered:

Instructor's Signature/date: Laurie L. Moorhead 11/13/07

Progress Energy

COURSE CODE: EV6191G TOTAL HOURS: 1 DATE: November 13, 2007

TITLE: Stormwater Pollution Prevention Plan (SWPPP) INSTRUCTOR: Laurie Moorhead LOCATION: Asheville Plant

| NAME | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | GRADE | SIGNATURE |
|---|---|---|---|---|---|
| 1. Lipe, Gary | I-[illegible]479 | Gary Roller | Asheville Plant | NA | |
| 2. McFee, Jeff | | | Asheville Plant | NA | |
| 3. Medford, Steve | i48657 | Brad Farrow | Asheville Plant | NA | |
| 4. Merrill, Roger | J622971 | Sammy Williams | Asheville Plant | NA | |
| 5. Moorhead, Laurie | | | Asheville Plant | NA | |
| 6. Moore, Fred | | | Asheville Plant | NA | |
| 7. Nix, Adam | I3[illegible]8 | Billy Queen | Asheville Plant | NA | |
| 8. Null, Joshua | e609c3 | C. Bagwell | Asheville Plant | NA | |
| 9. O'Briant, Eddie | | | Asheville Plant | NA | |
| 10. Parris, Blake | I13301 | Ward Stiles | Asheville Plant | NA | |
| 11. Parris, Mike | 106106 | [illegible] | Asheville Plant | NA | |
| 12. Patton, Michael | I73069 | DAVID WATLEY | Asheville Plant | NA | |
| 13. Queen, Billy | 246 50 -6505 | BRIAN FARROW | Asheville Plant | NA | |
| 14. Randall, Tim | [illegible]7216 | Ward Stiles | Asheville Plant | NA | |
| 15. Reynolds, Rickey | 118546 | [illegible] | Asheville Plant | NA | |
| 16. Robinson, Brooks | | | Asheville Plant | NA | |

Instructor's Signature/date: Laurie L. Moorhead 11/13/07

Progress Energy

COURSE CODE: EV6191G TOTAL HOURS: 1 DATE: November 13, 2007

TITLE: Stormwater Pollution Prevention Plan (SWPPP) INSTRUCTOR: Laurie Moorhead LOCATION: Asheville Plant

| NAME | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | GRADE | SIGNATURE |
|---|---|---|---|---|---|
| 1. Edwards, Dennis M. | | | Asheville Plant | NA | |
| 2. Edwards, Dennis E. | 183264 | Brad Farrow | Asheville Plant | NA | |
| 3. Elledge, Brandon | 175351 | M. Thomas | Asheville Plant | | |
| 4. Elledge, Diane | I65000 | Roger Merrill | Asheville Plant | | |
| 5. Ellis, Jeff | E1524 | Don Carter | Asheville Plant | | |
| 6 Englert, Carl | I47657 | Doug Gilmore | Asheville Plant | NA | |
| 7. Farrow, Brad | I 35725 | Gary Liksnait | Asheville Plant | NA | |
| 8. Fouts, Gary | | | Asheville Plant | NA | |
| 9. Gant, Billy | I52758 | David Keatley | Asheville Plant | NA | |
| 10. Gibson, Claudia | Fldell | Unassigned | Asheville Plant | NA | |
| 11. Gilliam, Brandon | | | Asheville Plant | NA | |
| 12. Gleason, Doug | D24065 | Roger Merrill | Asheville Plant | NA | |
| 13. Gosnell, Steve | I [illegible] | [illegible] | Asheville Plant | NA | |
| 14. Grape, Ted | | | Asheville Plant | NA | |
| 15. Gratton, Jackie | I55229 | Dixon Carter | Asheville Plant | NA | |
| 16. Griffin, David | | | Asheville Plant | NA | |

Instructor's Signature/date: Laurie Moorhead 11/13/07

Progress Energy

Course Title: Stormwater Pollution Prevention Plan (SWPPP) Course Code: EV619IG Hours: 1

Instructor & Code: Safety Meeting Date: 10/14/08 Location: Asheville Plant

| | EMPLOYEE NAME | EMPLOYEE ID/SOCIAL SECURITY # | DEPARTMENT | COMPANY MAIL ADDRESS |
|---|---|---|---|---|
| 1. | LAMAR BURNETTE | i39632 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 2. | Joey Honeycutt | I52959 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 3. | Greg Bryant | I99219 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 4. | Timothy Rogers | i30332 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 5. | Michael Idill | I66232 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 6. | ALVIN BUMGARNER | I44192 | PGC | " " " |
| 7. | Michael Parris | 106106 | | " " " |
| 8. | Richard Wilson | I45465 | | " " " |
| 9. | Rick Reynolds | I18846 | | " " " |
| 10. | Theodore DeLozier | I81238 | | " " " |
| 11. | CRISTAL R. DIEDRICH | I74225 | " | " " " |
| 12. | David Watley | I83878 | " | " " " |
| 13. | Eric Anderson | E78030 | " | " " " |
| 14. | Brandon Elledge | I75351 | " | " " " |
| 15. | Regina G. Elledge | I65030 | " | " " " |

JOHN THACKER 16033

Instructor Signature/Date : Laurie L. Moorhead 10/14/08

Carl England I-42657

Glain Duff C31280

JEFF MCFEE I19257

Tim Randall i27910

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Attachements Page 1021

Progress Energy Carolinas, Inc., Asheville Plant

Course Title: Stormwater Pollution Prevention Plan (SWPPP) Copy

Course Code: EV619IG

Hours: 1

Instructor & Code: Safety Meeting

Date: 10/14/08

Location: Asheville Plant

| | EMPLOYEE NAME | EMPLOYEE ID/SOCIAL SECURITY # | DEPARTMENT | COMPANY MAIL ADDRESS |
|---|---|---|---|---|
| 1. | Eddie O'Briant | 195-52-7388 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 2. | Gary Roller | 228-74-2031 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 3. | Buddy Sparks | 238-08-5713 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 4. | Clark Bagwell | 247-92-2156 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 5. | Roger Merrill | 2281 | PGC | 200 CP&L Drive, Arden, NC 28704 |
| 6. | Greg Toney | 7746 | PGC | " " " |
| 7. | Tom Thompson | 238-96-5605 | POG | PEB 4 |
| 8. | Jeffery D. Edwards | i32481 | POG | 300 CP&L Drive 28704 |
| 9. | John Lovern | i24635 | PGC | 300 CP&L Drive. |
| 10. | David C. Mortensen | E29550 | PGC | 300 CP&L Dr 28704 |
| 11. | Bruce Lobach | I27719 | PGC | 300 CP&L Dr 28704 |
| 12. | Jack Case | I05644 | PGC | 200 CP&L Drive Arden NC |
| 13. | Garry Whisnant | I85463 | " | " |
| 14. | Jennifer Brooks | I39444 | PGC | " |
| 15. | Donna Anders | E20849 | " | " |

Instructor Signature/Date : Laurie L. Moorhead 10/14/08

(U:\wpwin\forms\roster)

COURSE CODE: EV617IAV/EV6191G TOTAL HOURS: 1 DATE: December 16, 2009

TITLE: Site Specific SPCC Trg; Stormwater Pollution Prevention Trg. INSTRUCTOR: Laurie Moorhead LOCATION: Asheville Plant

| NAME (PRINT) | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | SIGNATURE |
|---|---|---|---|---|
| 1. Tammy Lyda | I44785 | D. Gleason | ASVL PLT | Tammy Lyda |
| 2. Jacob Walter | | | ASVL PLT | |
| 3. Zach Wallace | | | ASVL PLT | |
| 4. Lamar Burnette | | | ASVL PLT | |
| Dennis Edwards | | | ASVL PLT | |
| 6 Billy Gant | | | ASVL PLT | |
| 7. Joey Honeycutt | | | ASVL PLT | |
| 8. Brian Lacy | I93039 | C. BAGWELL | ASVL PLT | B Lacy |
| 9. Doug Sauder | 100049 | C. Bagwell | ASVL PLT | Doug Sauder |
| 10. Ted Grape | | | ASVL PLT | |
| 11. Jeff Ellis | | | ASVL PLT | |
| 12. Benny Carver | | | ASVL PLT | |
| | | | | |
| 14. | | | | |
| 15. | | | | |

Return to Training Coordinator for Training Credit Date Entered: 1-11-10

Instructor's Signature/date: Laurie L. Moorhead

Progress Energy

Attachements Page 1023

Progress Energy Carolinas, Inc., Asheville Plant

File: 105105

**COURSE CODE:** EV6171AV/EV6191G **TOTAL HOURS:** 1 **DATE:** December 16, 2009

**TITLE:** Site Specific SPCC Trg; Stormwater Pollution Prevention Trg. **INSTRUCTOR:** Laurie Moorhead **LOCATION:** Asheville Plant

| NAME (PRINT) | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | SIGNATURE |
|---|---|---|---|---|
| 1. Tammy Lyda | I44785 | D. Gleason | ASVL PLT | Tammy Lyda |
| 2. Jacob Walter | | | ASVL PLT | |
| 3. Zach Wallace | | | ASVL PLT | |
| 4. Lamar Burnette | | | ASVL PLT | |
| Dennis Edwards | | | ASVL PLT | |
| 6 Billy Gant | | | ASVL PLT | |
| 7. Joey Honeycutt | | | ASVL PLT | |
| 8. Brian Lacy | | | ASVL PLT | |
| 9. Doug Sauder | | | ASVL PLT | |
| 10. Ted Grape | | | ASVL PLT | |
| 11. Jeff Ellis | | | ASVL PLT | |
| 12. Benny Carver | | | ASVL PLT | |
| | | | | |
| 14. | | | | |
| 15. | | | | |

Return to Training Coordinator for Training Credit Date Entered: 12/22/09

Instructor's Signature/date: Donna Anders

Progress Energy

Attachements Page 1024

Progress Energy Carolinas, Inc., Asheville Plant

COURSE CODE: EV617IAV/EV6191G TOTAL HOURS: 1 DATE: December 16, 2009

TITLE: Site Specific SPCC Trg; Stormwater Pollution Prevention Trg. INSTRUCTOR: Laurie Moorhead LOCATION: Asheville Plant

| NAME (PRINT) | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | SIGNATURE |
|---|---|---|---|---|
| 1. Tammy Lyda | | | ASVL PLT | |
| 2. Jacob Walter | | | ASVL PLT | |
| 3. Zach Wallace | | | ASVL PLT | |
| 4. Lamar Burnette | | | ASVL PLT | |
| Dennis Edwards | | | ASVL PLT | |
| 6 Billy Gant | | | ASVL PLT | |
| 7. Joey Honeycutt | | | ASVL PLT | |
| 8. Brian Lacy | | | ASVL PLT | |
| 9. Doug Sauder | | | ASVL PLT | |
| 10. Ted Grape | | | ASVL PLT | |
| 11. Jeff Ellis | | | ASVL PLT | Jeff Ellis |
| 12. Benny Carver | | | ASVL PLT | |
| | | | | |
| 14. | | | | |
| 15. | | | | |

Return to Training Coordinator for Training Credit Date Entered: 1-6-10

Instructor's Signature/date: Laurie L. Moorhead

Progress Energy

Attachements Page 1025

Progress Energy Carolinas, Inc., Asheville Plant

File: 10310-3

COURSE CODE: EV617IAV/EV6191G TOTAL HOURS: 1 DATE: December 16, 2009

Session: 0004

TITLE: Site Specific SPCC Trg; Stormwater Pollution Prevention Trg. INSTRUCTOR: Laurie Moorhead LOCATION: Asheville Plant

| NAME (PRINT) | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | SIGNATURE |
|---|---|---|---|---|
| 1. Tammy Lyda | | | ASVL PLT | |
| ✓ 2. Jacob Walter | | Doug Gleason | ASVL PLT | |
| ✓ 3. Zach Wallace | | Ward Stiles | ASVL PLT | |
| 4. Lamar Burnette | | | ASVL PLT | |
| Dennis Edwards | | | ASVL PLT | |
| 6 Billy Gant | | | ASVL PLT | |
| 7. Joey Honeycutt | | | ASVL PLT | |
| 8. Brian Lacy | | | ASVL PLT | |
| 9. Doug Sauder | | | ASVL PLT | |
| 10. Ted Grape | | | ASVL PLT | |
| 11. Jeff Ellis | | | ASVL PLT | |
| 12. Benny Carver | | | ASVL PLT | |
| | | | | |
| 14. | | | | |
| 15. | | | | |

Return to Training Coordinator for Training Credit Date Entered: _____

Instructor's Signature/date: Laurie S. Moorhead

Progress Energy

Attachements Page 1026

Progress Energy Carolinas, Inc., Asheville Plant

COURSE CODE: EV617AV/EV6191G TOTAL HOURS: 1 DATE: November, 2009

TITLE: Site Specific SPCC Trg; Stormwater Pollution Prevention Trg. INSTRUCTOR: Laurie Moorhead LOCATION: Asheville Plant

| NAME (PRINT) | SSN OR CORP ID | SUPERVISOR | PLANT/LOCATION | SIGNATURE |
|---|---|---|---|---|
| 1. Dwayne Kuykendall | I 17426 | Watley | ASVL PLT | [signature] |
| 2. Jeff McFee [signature] | I 19257 | THACKER | ASVL PLT | [signature] |
| 3. Eric Anderson | E78030 | Merrill | ASVL PLT | Eric Anderson |
| 4. Jeff Edwards | I32481 | Lobach | ASVL PLT | Jeffrey D Edwards |
| 5. MICHAEL L. THOMAS | I 95546 | MERRILL | ASVL PLT | Michael L. Thomas |
| 6 Tony Bailey | F55757 | Stiles | ASVL PLT | [signature] |
| 7. Blake Parris | I 13301 | Stiles | ASVL PLT | [signature] |
| 8. Timothy Rogers | I30332 | C. Bagwell | ASVL PLT | [signature] |
| 9. Doug Metcalf | I 96406 | Thomas | ASVL PLT | [signature] |
| 10. B. Underwood | I36770 | Fouts | ASVL PLT | Brandon Underwood |
| 11. Joshua Null | E60903 | Bagwell | ASVL PLT | [signature] |
| 12. ALVIN BUMGARNER | I 44192 | THACKER | ASVL PLT | Alvin Bumgarner |
| 13 WR Stiles | I60707 | Merrill | ASVL PLT | WR Stiles |
| 14. Deborah Carter | I 86351 | Whisnant | ASVL PLT | Deborah Carter |
| 15. JODY THACKER | I 56033 | Whisnant | ASVL PLT | Jody Thacker |
| 16. GARY FOUTS | I 59750 | MERRILL | ASVL PLT | Gary Fouts |

Return to Training Coordinator for Training Credit

Date Entered:

Instructor's Signature/date: Laurie L. Moorhead 11/10/09

Progress Energy

# Appendix L

Groundwater Analytical Data and Well Construction Records
Question 11

## LEGEND

| | |
|---|---|
| CB-1 | PROPOSED BACKGROUND MONITORING WELL |
| CB-8 | PROPOSED DOWNGRADIENT MONITORING WELL |
| GW-1 | COMPLIANCE BOUNDARY WELL |
| PZ-5 | MONITORING WELL |
| | WASTE BOUNDARY |
| | 500 ft COMPLIANCE BOUNDARY |
| | PARCEL LINE (*BUNCOMBE CO GIS*) |
| | BOUNDARY LINE (*SURVEYED*) |
| ▲ | MONUMENT (*SURVEYED*) |

SOURCES:

1.) THE 2006 BUNCOMBE COUNTY AERIAL WAS OBTAINED FROM THE BUNCOMBE COUNTY ORG NORTH CAROLINA AT *http://www.buncombecounty.org/governing/depts/GIS/*.

2.) DRAWING HAS BEEN SET WITH A PROJECTION OF NORTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3200 (NAD 83).

3.) PARCEL BOUNDARY WAS OBTAINED FROM BUNCOMBE COUNTY GIS DATA.

4.) MONITORING WELLS LOCATION AND WASTE BOUNDARY FROM FCA of NC, SURVEY DATED MARCH 2009.

5.) TOPOGRAPHIC INFORMATION OBTAINED FROM THE NC DEPARTMENT OF TRANSPORTATION, TOPO TIED TO NC STATE PLAIN COORDINATE SYSTEM FIPS 3200 (NAD 83), ELEVATIONS ARE IN FEET (msl.)

NOTE:
CONTOUR LINES ARE USED FOR REPRESENTATIVE PURPOSES ONLY AND ARE NOT TO BE USED FOR DESIGN OR CONSTRUCTION PURPOSES.

# NOT FOR CONSTRUCTION

| REV. | DATE | DESCRIPTION | BY | CHK | APV |
|---|---|---|---|---|---|
| F | 04-06-2010 | MODIFIED PROPOSED WELL LOCATIONS AND CHANGED PROPOSED WELL NAMES | JEC | KWW | KWW |
| E | 02-19-2010 | MODIFIED PROPOSED WELL LOCATIONS AND ADDED NUMEROUS SITE FEATURES | JEC | KWW | KWW |
| D | 01-22-2010 | MODIFIED REVIEW AND COMPLIANCE BOUNDARIES AND MONITORING WELLS | JEC | KWW | KWW |
| C | 08-31-2009 | MODIFIED WASTE BOUNDARY, REVIEW AND COMPLIANCE BOUNDARIES | JEC | KWW | KWW |
| B | 07-29-2009 | MODIFIED WASTE BOUNDARY, REVIEW AND COMPLIANCE BOUNDARIES | JEC | KWW | KWW |
| A | 04-16-2009 | ISSUED FOR CLIENT USE | JEC | KWW | KWW |

GRAPHIC SCALE
400 0 100 200 400
(IN FEET)
SCALE: 1" = 200'


synTerra
148 River Street, Suite 220
Greenville, South Carolina 29601
864-421-9999
www.synterracorp.com


| | | | |
|---|---|---|---|
| DRAWN BY: | JOHN CHASTAIN | DATE: | 04-16-2009 |
| CHECKED BY: | KATHY WEBB | DATE: | 04-16-2009 |
| PROJECT MANAGER: | KATHY WEBB | | |
| LAYOUT NAME: | (AERIAL W TOPO) | | |

Progress Energy

PROGRESS ENERGY CAROLINAS, INC.
POWER OPERATIONS GROUP
ASHEVILLE PLANT
SKYLAND, NORTH CAROLINA

**PROPOSED COMPLIANCE BOUNDARY WELL LOCATIONS ON 2006 PHOTOGRAPH**

| DRAWING | SHEET | REVISION |
|---|---|---|
| - | 1 OF 1 | F |

04/06/2010 11:16 AM P:\Progress Energy_1026\01_Asheville NC\01_Ash Ponds Assessment\dwg\ACAD 2006-PROGRESS BASEMAP REV F.dwg

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL MW-1 (GW-1)

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.01** | **0.7** | **0.004*** | **0.7** | **0.00175** | **250** | **0.01** | **1** | **2** | **0.3** | **0.015** | ------ | **0.05** | **0.00105** | **0.1** | **10** | **1** | ------ | **0.02** | **0.0175** | ------ | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12/14/2007 | <0.005 | 0.0063 | 0.344 | 0.0038 | <0.01 | <0.001 | 8.2 | 0.0357 | 0.0455 | 0.11 | 56.8 | 0.0294 | Not Sampled | Not Sampled | 0.0000269 | 0.0341 | 6.3 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | <5.0 | 0.00012 | 0.192 | 4.53 | 57.2 | 20.39 | 98 | <2.0 | <25.0 | 9.2 | 50 | <1.0 |
| 4/21/2008 | <0.005 | <0.005 | 0.226 | <0.001 | <0.01 | <0.001 | <5.0 | <0.005 | <0.005 | 0.16 | 2.88 | <0.005 | Not Sampled | 0.189 | 0.00000081 | 0.0087 | 8.2 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | <5.0 | <0.0005 | 0.0523 | 3.76 | 56.8 | 19.78 | 98 | <2.0 | <25.0 | 20.2 | 40 | <0.02 |
| 10/13/2008 | <0.005 | <0.005 | 0.146 | <0.001 | <0.05 | <0.001 | <5.0 | <0.005 | <0.005 | 0.15 | 0.122 | <0.005 | Not Sampled | 0.0748 | <0.0000005 | 0.005 | 5.2 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | <5.0 | <0.0001 | 0.0232 | 4.41 | 56.12 | 19.95 | 72 | <2.0 | 73 | 24.1 | 54 | 0.07 |
| 4/14/2009 | <0.005 | <0.005 | 0.184 | <0.001 | <0.05 | <0.001 | <5.0 | <0.005 | <0.005 | <0.1 | 0.575 | <0.005 | Not Sampled | 0.0985 | <0.0000005 | 0.0075 | 7.7 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | <5.0 | <0.0005 | 0.0333 | 4.3 | 57.38 | 19.70 | 89 | <2.0 | <25.0 | 13.9 | 70 | <0.02 |
| 10/16/2009 | <0.005 | <0.005 | 0.184 | <0.001 | <0.05 | <0.001 | <5.0 | <0.005 | <0.005 | <0.1 | 0.232 | <0.005 | Not Sampled | 0.1 | 0.000000772 | 0.0065 | 8.2 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | <5.0 | <0.0005 | 0.03 | 4.51 | 57.02 | 19.82 | 102 | <2.0 | <25.0 | 3.8 | 74 | <0.05 |
| 5/11/2010 | <0.005 | <0.005 | 0.172 | <0.001 | <0.05 | <0.001 | <5.0 | <0.005 | <0.005 | <0.1 | 0.459 | <0.005 | Not Sampled | 0.0903 | 0.000000831 | 0.005 | 8.6 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | <5.0 | <0.0001 | 0.0289 | 3.13 | 55.22 | 19.63 | 106 | <2.0 | <25.0 | 2.2 | 26 | <0.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* - Federal MCL
** - Federal Secondary Standard

As of January 1, 2010, following changes went into effect:
Arsenic standard went from 0.05 mg/l to 0.01 mg/l
Barium standard went from 2 mg/l to 0.7 mg/l
Boron standard went from 0.315 mg/l to 0.7 mg/l
Chromium standard went from 0.05 mg/l to 0.01 mg/l
Selenium standard went from 0.05 mg/l to 0.02 mg/l

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL MW-2 (GW-2)

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.01** | **0.7** | **0.004*** | **0.7** | **0.00175** | **250** | **0.01** | **1** | **2** | **0.3** | **0.015** | ------ | **0.05** | **0.00105** | **0.1** | **10** | **1** | ------ | **0.02** | **0.0175** | ------ | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/14/2007 | <0.005 | 0.0083 | 0.305 | 0.0021 | 0.322 | <0.001 | <20.0 | 0.0311 | 0.0076 | 0.12 | 33.2 | 0.0115 | Not Sampled | Not Sampled | 0.00000458 | 0.018 | 0.15 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 69.1 | 0.0001 | 0.0593 | 5.71 | 56.3 | 43.51 | 261 | <2.0 | <25.0 | 5.2 | 200 | <1.0 |
| 4/21/2008 | <0.005 | <0.005 | 0.129 | <0.001 | 0.386 | <0.001 | 17.1 | <0.005 | <0.005 | 0.14 | 7.38 | <0.005 | Not Sampled | 0.171 | 0.000005 | <0.005 | 0.11 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 63.3 | 0.00013 | 0.0277 | 5.38 | 59 | 43.26 | 266 | <2.0 | 28 | 9.2 | 182 | <0.02 |
| 10/13/2008 | <0.005 | <0.005 | 0.07 | <0.001 | 0.4 | <0.001 | 36.4 | <0.005 | <0.005 | <0.1 | 0.357 | <0.005 | Not Sampled | 0.0665 | 0.0000105 | <0.005 | 0.17 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 70.2 | <0.0001 | <0.01 | 5.61 | 59.72 | 43.42 | 333 | <2.0 | 48.1 | 6.9 | 204 | 0.09 |
| 4/14/2009 | <0.005 | <0.005 | 0.0907 | <0.001 | 0.418 | <0.001 | 55.5 | <0.005 | <0.005 | <0.1 | 0.286 | <0.005 | Not Sampled | 0.0901 | 0.0000178 | <0.005 | 0.14 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 66 | <0.0005 | 0.0102 | 5.53 | 58.64 | 43.36 | 361 | <2.0 | <25.0 | 8.5 | 294 | <0.02 |
| 10/16/2009 | <0.005 | <0.005 | 0.104 | <0.001 | 0.431 | <0.001 | 99 | 0.007 | <0.005 | <0.1 | 0.141 | <0.005 | Not Sampled | 0.13 | 0.0000445 | 0.0086 | 0.14 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 66.4 | <0.0005 | <0.01 | 5.65 | 60.8 | 43.16 | 518 | <2.0 | <25.0 | 2.3 | 312 | <0.05 |
| 5/11/2010 | <0.005 | <0.005 | 0.137 | <0.001 | 0.377 | <0.001 | 151 | <0.005 | <0.005 | <0.1 | 0.46 | <0.005 | Not Sampled | 0.141 | 0.00012 | <0.005 | 0.34 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 70.1 | <0.0001 | <0.01 | 5.4 | 60.08 | 42.90 | 620 | <2.0 | 59 | 2 | 370 | <0.1 |

* - Federal MCL
** - Federal Secondary Standard

As of January 1, 2010, following changes went into effect:
Arsenic standard went from 0.05 mg/l to 0.01 mg/l
Barium standard went from 2 mg/l to 0.7 mg/l
Boron standard went from 0.315 mg/l to 0.7 mg/l
Chromium standard went from 0.05 mg/l to 0.01 mg/l
Selenium standard went from 0.05 mg/l to 0.02 mg/l

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL MW-3 (GW-3)

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.01** | **0.7** | **0.004*** | **0.7** | **0.00175** | **250** | **0.01** | **1** | **2** | **0.3** | **0.015** | ------ | **0.05** | **0.00105** | **0.1** | **10** | **1** | ------ | **0.02** | **0.0175** | ------ | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/13/2007 | <0.005 | <0.005 | 0.0329 | <0.001 | 1.12 | <0.001 | 12.1 | <0.005 | <0.005 | <0.1 | 0.337 | <0.005 | Not Sampled | Not Sampled | 0.0000027 | <0.005 | <0.1 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 150 | 0.0001 | <0.01 | 5.7 | 60.26 | 12.76 | 498 | <2.0 | <25.0 | 1.1 | 320 | <1.0 |
| 4/21/2008 | <0.005 | <0.005 | 0.0377 | <0.001 | 1.3 | <0.001 | 14.2 | <0.005 | <0.005 | <0.1 | 0.889 | <0.005 | Not Sampled | 1.37 | 0.00000324 | <0.005 | <0.1 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 127 | <0.0001 | <0.01 | 6.44 | 57.9 | 12.15 | 463 | <2.0 | <25.0 | 15.1 | 300 | 0.03 |
| 10/13/2008 | <0.005 | <0.005 | 0.0311 | <0.001 | 1.29 | <0.001 | 21.2 | <0.005 | <0.005 | <0.1 | 0.0861 | <0.005 | Not Sampled | 1.85 | 0.00000103 | <0.005 | <0.1 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 148 | <0.0001 | <0.01 | 5.74 | 61.16 | 12.69 | 504 | <2.0 | 43.5 | 9.7 | 370 | 0.1 |
| 4/14/2009 | <0.005 | <0.005 | 0.0329 | <0.001 | 1.32 | <0.001 | 24.7 | <0.005 | <0.005 | <0.1 | 0.122 | <0.005 | Not Sampled | 1.12 | 0.00000405 | <0.005 | <0.1 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 142 | <0.0005 | <0.01 | 5.71 | 56.66 | 11.93 | 500 | <2.0 | <25.0 | 11.9 | 218 | 0.04 |
| 10/16/2009 | <0.005 | <0.005 | 0.0326 | <0.001 | 1.19 | <0.001 | 26.8 | <0.005 | <0.005 | <0.1 | 0.261 | <0.005 | Not Sampled | 0.736 | 0.00000176 | <0.005 | 0.25 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 156 | <0.0005 | <0.01 | 5.72 | 60.62 | 11.88 | 470 | <2.0 | <25.0 | 35.4 | 328 | <0.05 |
| 5/11/2010 | <0.005 | <0.005 | 0.0577 | <0.001 | 1.24 | <0.001 | 34.2 | <0.005 | <0.005 | <0.1 | 3.47 | <0.005 | Not Sampled | 1.77 | 0.0000227 | <0.005 | <0.1 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 143 | <0.0001 | 0.0103 | 5.73 | 57.2 | 11.50 | 481 | <2.0 | 32 | 3.2 | 290 | <0.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* - Federal MCL
** - Federal Secondary Standard

As of January 1, 2010, following changes went into effect:
Arsenic standard went from 0.05 mg/l to 0.01 mg/l
Barium standard went from 2 mg/l to 0.7 mg/l
Boron standard went from 0.315 mg/l to 0.7 mg/l
Chromium standard went from 0.05 mg/l to 0.01 mg/l
Selenium standard went from 0.05 mg/l to 0.02 mg/l

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL MW-4 (GW-4)

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.01** | **0.7** | **0.004*** | **0.7** | **0.00175** | **250** | **0.01** | **1** | **2** | **0.3** | **0.015** | ------ | **0.05** | **0.00105** | **0.1** | **10** | **1** | ------ | **0.02** | **0.0175** | ------ | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/13/2007 | <0.005 | <0.005 | 0.098 | <0.001 | 0.528 | <0.001 | 10.7 | 0.0087 | <0.005 | <0.1 | 3.23 | <0.005 | Not Sampled | Not Sampled | 0.0000274 | 0.0114 | 0.55 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 100 | 0.00016 | 0.0373 | 5.34 | 70.52 | 15.96 | 327 | <2.0 | <25.0 | <1.0 | 206 | <1.0 |
| 4/21/2008 | <0.005 | <0.005 | 0.0926 | <0.001 | 0.586 | <0.001 | 9.8 | 0.0068 | <0.005 | <0.1 | 0.231 | <0.005 | Not Sampled | 0.143 | 0.0000116 | 0.0099 | 0.37 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 101 | <0.0001 | 0.0163 | 5.95 | 59.9 | 15.49 | 295 | <2.0 | <25.0 | 4 | 182 | <0.02 |
| 10/13/2008 | <0.005 | <0.005 | 0.0812 | <0.001 | 0.592 | <0.001 | 11.6 | 0.0053 | <0.005 | <0.1 | 0.152 | <0.005 | Not Sampled | 0.153 | 0.00000948 | 0.0111 | 0.51 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 116 | 0.0001 | <0.01 | 5.45 | 60.8 | 16.04 | 327 | <2.0 | 43.5 | 2.7 | 226 | 0.09 |
| 4/14/2009 | <0.005 | <0.005 | 0.0902 | <0.001 | 0.58 | <0.001 | 11.3 | 0.0056 | <0.005 | <0.1 | 0.486 | <0.005 | Not Sampled | 0.17 | 0.00000752 | 0.0114 | 0.49 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 112 | <0.0005 | 0.0105 | 5.47 | 58.1 | 15.35 | 306 | <2.0 | <25.0 | 3.8 | 232 | <0.02 |
| 10/16/2009 | <0.005 | <0.005 | 0.0795 | <0.001 | 0.563 | <0.001 | 13.1 | 0.0053 | <0.005 | <0.1 | 0.233 | <0.005 | Not Sampled | 0.176 | 0.00000976 | 0.0105 | 0.59 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 112 | <0.0005 | <0.01 | 5.58 | 59.72 | 15.48 | 328 | <2.0 | <25.0 | 1.2 | 228 | <0.05 |
| 5/11/2010 | <0.005 | <0.005 | 0.106 | <0.001 | 0.541 | <0.001 | 12.5 | 0.0076 | <0.005 | <0.1 | 2.71 | <0.005 | Not Sampled | 0.216 | 0.0000121 | 0.0086 | 0.46 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 149 | 0.00012 | 0.0119 | 5.7 | 57.74 | 15.48 | 287 | <2.0 | <25.0 | <1.0 | 148 | <0.1 |
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* - Federal MCL
** - Federal Secondary Standard

As of January 1, 2010, following changes went into effect:
Arsenic standard went from 0.05 mg/l to 0.01 mg/l
Barium standard went from 2 mg/l to 0.7 mg/l
Boron standard went from 0.315 mg/l to 0.7 mg/l
Chromium standard went from 0.05 mg/l to 0.01 mg/l
Selenium standard went from 0.05 mg/l to 0.02 mg/l

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL MW-5 (GW-5)

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.01** | **0.7** | **0.004*** | **0.7** | **0.00175** | **250** | **0.01** | **1** | **2** | **0.3** | **0.015** | **------** | **0.05** | **0.00105** | **0.1** | **10** | **1** | **------** | **0.02** | **0.0175** | **------** | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/13/2007 | <0.005 | <0.005 | 0.0659 | <0.001 | 0.413 | <0.001 | 11.9 | 0.0054 | <0.005 | <0.1 | 3.74 | <0.005 | Not Sampled | Not Sampled | 0.000067 | 0.0052 | 0.4 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 125 | 0.00027 | 0.0202 | 5.55 | 73.22 | 25.85 | 410 | 5.2 | <25.0 | 2.3 | 270 | <1.0 |
| 4/21/2008 | <0.005 | <0.005 | 0.203 | <0.001 | 0.398 | <0.001 | 11.9 | 0.0446 | 0.0553 | <0.1 | 46.2 | 0.0124 | Not Sampled | 0.971 | 0.000105 | 0.0306 | 1.2 | <0.1 | Not Sampled | 0.0139 | <0.005 | Not Sampled | 117 | 0.00065 | 0.126 | 5.12 | 66.02 | 25.78 | 379 | <2.0 | 48 | 8.9 | 242 | <0.02 |
| 10/13/2008 | <0.005 | <0.005 | 0.0566 | <0.001 | 0.407 | <0.001 | 14.9 | <0.005 | <0.005 | <0.1 | 0.182 | <0.005 | Not Sampled | 0.189 | 0.0000287 | <0.005 | 1.2 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 120 | 0.00028 | <0.01 | 5.54 | 62.06 | 25.63 | 378 | 4.5 | 36.4 | 4.5 | 246 | 0.1 |
| 4/14/2009 | <0.005 | <0.005 | 0.0632 | <0.001 | 0.387 | <0.001 | 13.4 | <0.005 | <0.005 | <0.1 | 0.648 | <0.005 | Not Sampled | 0.192 | 0.0000152 | <0.005 | 1.5 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 116 | <0.0005 | 0.0103 | 5.51 | 65.66 | 25.80 | 320 | <2.0 | <25.0 | 7.7 | 248 | <0.02 |
| 10/16/2009 | <0.005 | <0.005 | 0.067 | <0.001 | 0.341 | <0.001 | 14 | <0.005 | <0.005 | <0.1 | 3.09 | <0.005 | Not Sampled | 0.189 | 0.0000738 | <0.005 | 1.3 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 105 | <0.0005 | 0.0108 | 5.57 | 62.6 | 25.66 | 361 | <2.0 | 28 | 2.7 | 242 | <0.05 |
| 5/11/2010 | <0.005 | <0.005 | 0.0621 | <0.001 | 0.351 | <0.001 | 12.3 | <0.005 | <0.005 | <0.1 | 1.35 | <0.005 | Not Sampled | 0.17 | 0.000058 | <0.005 | 1.5 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 142 | 0.00033 | <0.01 | 5.74 | 60.26 | 25.73 | 316 | <2.0 | 37 | <1.0 | 156 | <0.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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* - Federal MCL
** - Federal Secondary Standard

As of January 1, 2010, following changes went into effect:
Arsenic standard went from 0.05 mg/l to 0.01 mg/l
Barium standard went from 2 mg/l to 0.7 mg/l
Boron standard went from 0.315 mg/l to 0.7 mg/l
Chromium standard went from 0.05 mg/l to 0.01 mg/l
Selenium standard went from 0.05 mg/l to 0.02 mg/l

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL PZ-19

### Well PZ-19

Results in (mg/l) (mS/cm)

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.01** | **0.7** | **0.004*** | **0.7** | **0.00175** | **250** | **0.01** | **1** | **2** | **0.3** | **0.015** | **------** | **0.05** | **0.00105** | **0.1** | **10** | **1** | **------** | **0.02** | **0.0175** | **------** | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/14/2006 | 0.0104 | 0.0052 | 0.0328 | <0.0007 | 0.623 | 0.0007 | 6.1 | 0.0093 | 0.0035 | 0.2 | 0.595 | <0.002 | 6.79 | 0.0762 | <0.00011 | 0.0087 | 0.99 | <0.1 | 6.95 | <0.002 | 0.0048 | 21.4 | 94 | 0.0058 | 0.0107 | | | | <2 | 21 | 2 | 191 | <0.01 |
| 6/12/2007 | <0.0001 | 0.00042 | 0.0735 | 0.00088 | 0.478 | 0.00023 | 7.16 | 0.0822 | 0.003 | 0.2 | 18.7 | 0.0007 | Not Sampled | 0.179 | 0.00012 | 0.0595 | 1.52 | 0.05 | Not Sampled | 0.0029 | 0.00003 | Not Sampled | 104 | 0.00043 | 0.031 | 7.34 | 61.5 | 17.66 | 329 | 6 | 10 | 5 | 214 | 0.021 |
| 12/13/2007 | <0.005 | <0.005 | 0.0501 | <0.001 | 0.483 | <0.001 | 12.3 | 0.0817 | <0.005 | <0.1 | 7.21 | <0.005 | Not Sampled | Not Sampled | 0.00000656 | 0.0555 | 0.95 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 112 | 0.00022 | 0.0425 | 5.62 | 71.06 | 17.74 | 373 | <2.0 | <25.0 | <1.0 | 272 | <1.0 |
| 4/21/2008 | <0.005 | <0.005 | 0.0315 | <0.001 | 0.558 | <0.001 | 11.3 | 0.0085 | <0.005 | <0.1 | 0.572 | <0.005 | Not Sampled | 0.0816 | 0.00000411 | 0.0057 | 0.97 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 113 | 0.00016 | 0.017 | 6.5 | 65.3 | 17.71 | 357 | <2.0 | 28 | 4 | 230 | 0.03 |
| 10/13/2008 | <0.005 | <0.005 | 0.0275 | <0.001 | 0.498 | <0.001 | 13.3 | 0.0063 | <0.005 | <0.1 | 0.558 | <0.005 | Not Sampled | 0.0238 | 0.00000445 | <0.005 | 1.4 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 122 | 0.00013 | <0.01 | 5.85 | 62.78 | 17.34 | 373 | <2.0 | 38.8 | 2.2 | 262 | 0.08 |
| 4/14/2009 | <0.005 | <0.005 | 0.0309 | <0.001 | 0.555 | <0.001 | 12.7 | <0.005 | <0.005 | <0.1 | 0.207 | <0.005 | Not Sampled | 0.0102 | 0.00000152 | <0.005 | 1.1 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 118 | <0.0005 | 0.0131 | 5.83 | 60.62 | 17.81 | 345 | <2.0 | <25.0 | 3.4 | 224 | <0.02 |
| 10/16/2009 | <0.005 | <0.005 | 0.0261 | <0.001 | 0.501 | <0.001 | 13.6 | <0.005 | <0.005 | <0.1 | <0.05 | <0.005 | Not Sampled | <0.005 | 0.0000026 | <0.005 | 1.2 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 125 | <0.0005 | 0.0163 | 5.89 | 60.26 | 17.05 | 358 | <2.0 | <25.0 | 1.1 | 232 | <0.05 |
| 5/11/2010 | <0.005 | <0.005 | 0.0335 | <0.001 | 0.547 | <0.001 | 12.2 | 0.0158 | <0.005 | <0.1 | 1.59 | <0.005 | Not Sampled | 0.0386 | 0.00000183 | 0.0088 | 1.3 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 121 | 0.00016 | 0.0143 | 5.91 | 60.44 | 17.63 | 323 | <2.0 | 25 | <1.0 | 160 | <0.1 |

* - Federal MCL
** - Federal Secondary Standard

As of January 1, 2010, following changes went into effect:
Arsenic standard went from 0.05 mg/l to 0.01 mg/l
Barium standard went from 2 mg/l to 0.7 mg/l
Boron standard went from 0.315 mg/l to 0.7 mg/l
Chromium standard went from 0.05 mg/l to 0.01 mg/l
Selenium standard went from 0.05 mg/l to 0.02 mg/l

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL PZ-22

### Well PZ-22

**Results in (mg/l)** (mS/cm)

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.01** | **0.7** | **0.004*** | **0.7** | **0.00175** | **250** | **0.01** | **1** | **2** | **0.3** | **0.015** | **------** | **0.05** | **0.00105** | **0.1** | **10** | **1** | **------** | **0.02** | **0.0175** | **------** | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/14/2006 | 0.0033 | <0.002 | 0.046 | <0.0007 | 0.706 | 0.0005 | 6 | <0.002 | 0.0016 | <0.05 | 0.351 | <0.002 | 6.6 | 1.57 | <0.00011 | 0.0021 | 0.52 | <0.1 | 4.27 | <0.002 | 0.003 | 19.6 | 100 | <0.004 | 0.002 | | | | | <2 | 80 | 2 | 198 | <0.01 |
| 6/12/2007 | <0.0001 | 0.00085 | 0.121 | 0.00022 | 0.579 | 0.00048 | 7.35 | 0.009 | 0.0035 | 0.2 | 12.7 | 0.0054 | Not Sampled | 1.15 | 0.00018 | 0.0065 | 0.05 | 0.05 | Not Sampled | 0.0027 | 0.000039 | Not Sampled | 105 | 0.00032 | 0.0262 | 7.39 | 61.3 | 1.58 | 318 | 6 | 10 | 5 | 217 | 0.011 |
| 12/13/2007 | <0.005 | <0.005 | 0.0363 | <0.001 | 0.578 | <0.001 | 10.9 | <0.005 | <0.005 | <0.1 | 1.39 | <0.005 | Not Sampled | Not Sampled | 0.0000304 | <0.005 | 0.19 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 106 | 0.00011 | <0.01 | 4.83 | 55.04 | 1.55 | 351 | <2.0 | <25.0 | <1.0 | 214 | <1.0 |
| 4/21/2008 | <0.005 | <0.005 | 0.0437 | <0.001 | 0.756 | <0.001 | 10.1 | <0.005 | <0.005 | <0.1 | 1.11 | <0.005 | Not Sampled | 1.84 | 0.00002 | <0.005 | 0.16 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 116 | 0.00012 | <0.01 | 5.62 | 56.3 | 1.65 | 346 | <2.0 | <25.0 | 3.7 | 222 | <0.02 |
| 10/13/2008 | <0.005 | <0.005 | 0.04 | <0.001 | 0.722 | <0.001 | 12.3 | <0.005 | <0.005 | <0.1 | 0.75 | <0.005 | Not Sampled | 1.83 | 0.0000132 | <0.005 | 0.17 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 123 | 0.00012 | <0.01 | 5.31 | 59.18 | 1.56 | 358 | <2.0 | 36.4 | 4.7 | 238 | 0.05 |
| 4/14/2009 | <0.005 | <0.005 | 0.0418 | <0.001 | 0.733 | <0.001 | 11.9 | <0.005 | <0.005 | <0.1 | 1.19 | <0.005 | Not Sampled | 2.04 | 0.00000879 | <0.005 | 0.12 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 118 | <0.0005 | <0.01 | 5.29 | 55.58 | 1.42 | 320 | <2.0 | <25.0 | 6.2 | 230 | <0.02 |
| 10/16/2009 | <0.005 | <0.005 | 0.0343 | <0.001 | 0.633 | <0.001 | 13 | <0.005 | <0.005 | <0.1 | 1.26 | <0.005 | Not Sampled | 1.83 | 0.00000921 | <0.005 | 0.23 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 115 | <0.0005 | <0.01 | 5.46 | 60.08 | 1.48 | 345 | <2.0 | <25.0 | 1.7 | 230 | <0.05 |
| 5/11/2010 | <0.005 | <0.005 | 0.0372 | <0.001 | 0.772 | <0.001 | 12.7 | <0.005 | <0.005 | <0.1 | 1.39 | <0.005 | Not Sampled | 1.88 | 0.0000145 | <0.005 | 0.14 | <0.1 | Not Sampled | <0.01 | <0.005 | Not Sampled | 107 | <0.0001 | <0.01 | 5.53 | 57.56 | 1.47 | 306 | <2.0 | <25.0 | 10.2 | 164 | <0.1 |

* - Federal MCL
** - Federal Secondary Standard

As of January 1, 2010, following changes went into effect:
Arsenic standard went from 0.05 mg/l to 0.01 mg/l
Barium standard went from 2 mg/l to 0.7 mg/l
Boron standard went from 0.315 mg/l to 0.7 mg/l
Chromium standard went from 0.05 mg/l to 0.01 mg/l
Selenium standard went from 0.05 mg/l to 0.02 mg/l

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL PZ-1 SHALLOW

### Well PZ-1 Shallow

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.05** | **2** | **0.004*** | **0.315** | **0.00175** | **250** | **0.05** | **1** | **2** | **0.3** | **0.015** | ------ | **0.05** | **0.00105** | **0.1** | **10** | **1** | ------ | **0.05** | **0.0175** | ------ | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12/14/2006 | 0.0048 | <0.002 | 0.0883 | <0.0007 | 0.345 | <0.0005 | 7.2 | <0.002 | 0.0018 | 0.2 | 0.987 | <0.002 | 8.82 | 0.463 | <0.00011 | 0.0028 | 0.37 | <0.1 | 21.3 | <0.002 | 0.0025 | 76.2 | 180 | <0.004 | 0.0028 | | | | | <2 | 32 | 2 | 397 | <0.01 |
| 6/12/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12/13/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/21/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/13/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/14/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/16/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5/11/2010 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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* - Federal MCL
** - Federal Secondary Standard

## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL PZ-1 DEEP

### Well PZ-1 Deep

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.05** | **2** | **0.004*** | **0.315** | **0.00175** | **250** | **0.05** | **1** | **2** | **0.3** | **0.015** | **------** | **0.05** | **0.00105** | **0.1** | **10** | **1** | **------** | **0.05** | **0.0175** | **------** | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12/14/2006 | 0.0108 | <0.002 | 0.0454 | <0.0007 | 0.272 | <0.0005 | 20 | <0.002 | 0.0019 | 0.38 | 4.54 | <0.002 | 18.4 | 1.23 | <0.00011 | 0.0085 | 0.26 | <0.1 | 9.58 | <0.002 | 0.0061 | 92 | 250 | 0.0044 | 0.0028 | | | | | <2 | 30 | 2 | 595 | 0.0122 |
| 6/12/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12/13/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/21/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/13/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/14/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/16/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5/11/2010 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL PZ-8

### Well PZ-8

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.05** | **2** | **0.004*** | **0.315** | **0.00175** | **250** | **0.05** | **1** | **2** | **0.3** | **0.015** | **------** | **0.05** | **0.00105** | **0.1** | **10** | **1** | **------** | **0.05** | **0.0175** | **------** | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12/14/2006 | <0.002 | 0.476 | 0.239 | <0.0007 | 1.2 | <0.0005 | 7.5 | <0.002 | <0.0006 | 0.5 | 22.5 | <0.002 | 17.4 | 2.72 | <0.00011 | <0.002 | 0.54 | <0.1 | 4.13 | <0.002 | <0.002 | 5.2 | 40 | <0.004 | 0.0075 | | | | | <2 | 106 | 1 | 310 | <0.01 |
| 6/12/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12/13/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/21/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/13/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/14/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/16/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5/11/2010 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL PZ-12

### Well PZ-12

**Results in (mg/l)**

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.05** | **2** | **0.004*** | **0.315** | **0.00175** | **250** | **0.05** | **1** | **2** | **0.3** | **0.015** | ------ | **0.05** | **0.00105** | **0.1** | **10** | **1** | ------ | **0.05** | **0.0175** | ------ | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/14/2006 | <0.002 | 0.002 | 0.0255 | <0.0007 | 0.574 | <0.0005 | 6.7 | <0.002 | 0.001 | <0.05 | 0.233 | <0.002 | 6.68 | 7.88 | <0.00011 | 0.0025 | 0.41 | <0.1 | 5.16 | <0.002 | <0.002 | 23 | 110 | <0.004 | 0.0082 | | | | | <2 | 16 | 2 | 222 | <0.01 |
| 6/12/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12/13/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/21/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/13/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/14/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/16/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5/11/2010 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL PZ-17 SHALLOW

### Well PZ-17 Shallow

**Results in (mg/l)** (mS/cm)

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.05** | **2** | **0.004*** | **0.315** | **0.00175** | **250** | **0.05** | **1** | **2** | **0.3** | **0.015** | **------** | **0.05** | **0.00105** | **0.1** | **10** | **1** | **------** | **0.05** | **0.0175** | **------** | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/14/2006 | <0.002 | <0.002 | 0.0871 | <0.0007 | 0.102 | 0.0008 | 2.8 | <0.002 | 0.0133 | 0.4 | <0.02 | <0.002 | 2.82 | 0.315 | <0.00011 | 0.0326 | 0.78 | <0.1 | 4.73 | 0.0148 | <0.002 | 3.8 | 49 | <0.004 | 0.0682 | | | | | <2 | 19 | 3 | 125 | <0.01 |
| 6/12/2007 | 0.00057 | 0.00047 | 0.0778 | 0.00027 | 0.0665 | 0.0006 | 3.5 | <0.016 | 0.0248 | 0.26 | 0.319 | 0.0039 | Not Sampled | 0.139 | <0.0001 | 0.0181 | 0.615 | 0.035 | Not Sampled | 0.0183 | 0.000055 | Not Sampled | 36.1 | 0.00022 | 0.044 | 7.2 | 59.7 | 28.64 | 146 | 6 | 10 | 5 | 95 | 0.0331 |
| 12/13/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/21/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/13/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/14/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/16/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5/11/2010 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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## PROGRESS ENERGY ASHEVILLE STEAM ELECTRIC PLANT
## SUMMARY OF GROUNDWATER MONITORING RESULTS FOR WELL PZ-17 DEEP

### Well PZ-17 Deep

**Results in (mg/l)** (mS/cm)

| DATE | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Chloride | Chromium | Copper | Fluoride | Iron | Lead | Magnesium | Manganese | Mercury | Nickel | Nitrate | Nitrite | Potassium | Selenium | Silver | Sodium | Sulfate | Thallium | Zinc | pH | Temp | Water | Specific | BOD | COD | TOC | TDS | TOX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Standards** | **0.006*** | **0.05** | **2** | **0.004*** | **0.315** | **0.00175** | **250** | **0.05** | **1** | **2** | **0.3** | **0.015** | **------** | **0.05** | **0.00105** | **0.1** | **10** | **1** | **------** | **0.05** | **0.0175** | **------** | **250** | **0.002*** | **1.05** | **6.5 - 8.5** | | **Level** | **Conduct.** | | | | **500**** | |
| 12/14/2006 | <0.002 | <0.002 | 0.0742 | <0.0007 | 0.762 | <0.0005 | 6.7 | <0.002 | <0.0006 | <0.05 | 2.75 | <0.002 | 8.76 | 0.0479 | <0.00011 | 0.0052 | 0.45 | <0.1 | 6.23 | 0.0446 | <0.002 | 9 | 110 | <0.004 | 0.0114 | | | | | <2 | 12 | 2 | 267 | 0.0102 |
| 6/12/2007 | <0.0001 | 0.0015 | 0.067 | <0.000048 | 0.677 | 0.00032 | 8.44 | 0.00014 | 0.00065 | 0.2 | 0.2 | 0.00021 | Not Sampled | 0.0608 | <0.0001 | 0.0042 | 0.05 | 0.05 | Not Sampled | 0.0467 | <0.000011 | Not Sampled | 121 | 0.000053 | 0.0076 | 7.3 | 61.2 | 50.51 | 403 | 6 | 10 | 5 | 305 | 0.02 |
| 12/13/2007 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/21/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/13/2008 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4/14/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/16/2009 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5/11/2010 | Not Sampled for any parameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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# NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

**WELL CONTRACTOR CERTIFICATION #** 3098

**1. WELL CONTRACTOR:**

JOHNNY BURR
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC.
Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD

STATESVILLE | NC | 28625
City or Town | State | Zip Code

( 704 )- 872-7686
Area code- Phone number

**2. WELL INFORMATION:**

**SITE** WELL ID #(if applicable) GW-1

STATE WELL PERMIT#(if applicable)

**DWQ** or OTHER PERMIT #(if applicable)

**WELL USE** (Check Applicable Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)

**DATE DRILLED** 08/06-08/07/07

**TIME COMPLETED** AM ☐ PM ☐

**3. WELL LOCATION:**

CITY: ARDEN COUNTY BUNCOMBE

200 CP AND L DRIVE
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE
LONGITUDE
May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map
*(location of well must be shown on a USGS topo map and attached to this form if not using GPS)*

**4. FACILITY**- is the name of the business where the well is located.

**FACILITY ID #**(if applicable)

NAME OF FACILITY PROGRESS ENERGY

STREET ADDRESS 200 C P AND L DRIVE

ARDEN | NC
City or Town | State | Zip Code

CONTACT PERSON PROGRESS ENERGY

MAILING ADDRESS 410 S. WILMINGTON STREET PEB 8

RALEIGH | NC | 27601
City or Town | State | Zip Code

( )-
Area code - Phone number

**5. WELL DETAILS:**

a. **TOTAL DEPTH:** 24.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 15.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 2.5 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From ___ To ___ From ___ To ___
From ___ To ___ From ___ To ___
From ___ To ___ From ___ To ___

**6. CASING:**

| | Depth | | Diameter | Thickness/ Weight | Material |
|---|---|---|---|---|---|
| From 0.0 | To 14.0 | Ft. | 2 INCH | SCH 40 | PVC |
| From | To | Ft. | | | |
| From | To | Ft. | | | |

**7. GROUT:**

| | Depth | | Material | Method |
|---|---|---|---|---|
| From 0.0 | To 10.0 | Ft. | Portland bentonite | SLURRY |
| From | To | Ft. | | |
| From | To | Ft. | | |

**8. SCREEN:**

| | Depth | | Diameter | | Slot Size | | Material |
|---|---|---|---|---|---|---|---|
| From 14.0 | To 24.0 | Ft. | 2.0 | in. | .010 | in. | PVC |
| From | To | Ft. | | in. | | in. | |
| From | To | Ft. | | in. | | in. | |

**9. SAND/GRAVEL PACK:**

| | Depth | | Size | Material |
|---|---|---|---|---|
| From 12.0 | To 24.0 | Ft. | 20-40 | Fine Silica Sand |
| From | To | Ft. | | |
| From | To | Ft. | | |

**10. DRILLING LOG**

| From | To | Formation Description |
|---|---|---|
| 0.0 | 10.0 | RED CLAY |
| 10.0 | 16.0 | TAN CLAY |
| 16.0 | 24.0 | TAN ROCKY CLAY |

**11. REMARKS:**

Bentonite seal from 10.0 to 12.0 Feet.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Johnny Burr — 09/20/07
SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE

JOHNNY BURR
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

**Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.**

Form GW-1b
Rev. 7/05

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3098

**1. WELL CONTRACTOR:**

JOHNNY BURR
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC.
Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD

STATESVILLE | NC | 28625
City or Town | State | Zip Code

( 704 )- 872-7686
Area code- Phone number

**2. WELL INFORMATION:**

**SITE** WELL ID #(if applicable) GW-2

STATE WELL PERMIT#(if applicable)

**DWQ** or OTHER PERMIT #(if applicable)

**WELL USE** (Check Applicable Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)

**DATE DRILLED** 08/07/07

**TIME COMPLETED** AM ☐ PM ☐

**3. WELL LOCATION:**

CITY: ARDEN COUNTY BUNCOMBE

200 CP AND L DRIVE
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE
LONGITUDE
May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map
*(location of well must be shown on a USGS topo map and attached to this form if not using GPS)*

**4. FACILITY**- is the name of the business where the well is located.

**FACILITY ID #**(if applicable)

NAME OF FACILITY PROGRESS ENERGY

STREET ADDRESS 200 C P AND L DRIVE

ARDEN | NC
City or Town | State | Zip Code

CONTACT PERSON PROGRESS ENERGY

MAILING ADDRESS 410 S. WILMINGTON STREET PEB 8

RALEIGH | NC | 27601
City or Town | State | Zip Code

( )-
Area code - Phone number

**5. WELL DETAILS:**

a. **TOTAL DEPTH:** 45.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 30.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 2.5 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From ___ To ___ From ___ To ___
From ___ To ___ From ___ To ___
From ___ To ___ From ___ To ___

**6. CASING:**

| | Depth | | Diameter | Thickness/ Weight | Material |
|---|---|---|---|---|---|
| From 0.0 | To 40.0 | Ft. | 2 INCH | SCH 40 | PVC |
| From ___ | To ___ | Ft. | | | |
| From ___ | To ___ | Ft. | | | |

**7. GROUT:**

| | Depth | | Material | Method |
|---|---|---|---|---|
| From 0.0 | To 36.0 | Ft. | Portland bentonite | SLURRY |
| From ___ | To ___ | Ft. | | |
| From ___ | To ___ | Ft. | | |

**8. SCREEN:**

| | Depth | | Diameter | | Slot Size | | Material |
|---|---|---|---|---|---|---|---|
| From 40.0 | To 45.0 | Ft. | 2.0 | in. | .010 | in. | PVC |
| From ___ | To ___ | Ft. | ___ | in. | ___ | in. | |
| From ___ | To ___ | Ft. | ___ | in. | ___ | in. | |

**9. SAND/GRAVEL PACK:**

| | Depth | | Size | Material |
|---|---|---|---|---|
| From 38.0 | To 45.0 | Ft. | 20-40 | Fine Silica Sand |
| From ___ | To ___ | Ft. | | |
| From ___ | To ___ | Ft. | | |

**10. DRILLING LOG**

| From | To | Formation Description |
|---|---|---|
| 0.0 | 12.0 | RED CLAY |
| 12.0 | 20.0 | TAN ROCKY CLAY |
| 20.0 | 29.0 | BROWN ROCKY CLAY |
| 29.0 | 45.0 | TAN/BROWN ROCK |

**11. REMARKS:**

Bentonite seal from 36.0 to 38.0 Feet.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Johnny Burr — 09/20/07
SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE

JOHNNY BURR
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

**Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.**

Form GW-1b
Rev. 7/05

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3098

**1. WELL CONTRACTOR:**

JOHNNY BURR
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC.
Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD

STATESVILLE | NC | 28625
City or Town | State | Zip Code

( 704 )- 872-7686
Area code- Phone number

**2. WELL INFORMATION:**

**SITE** WELL ID #(if applicable) GW-3

STATE WELL PERMIT#(if applicable)

**DWQ** or OTHER PERMIT #(if applicable)

**WELL USE** (Check Applicable Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)

**DATE DRILLED** 08/07/07

**TIME COMPLETED** AM ☐ PM ☐

**3. WELL LOCATION:**

CITY: ARDEN COUNTY BUNCOMBE

200 CP AND L DRIVE
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE __ __ _____
LONGITUDE __ __ _____
May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map
*(location of well must be shown on a USGS topo map and attached to this form if not using GPS)*

**4. FACILITY**- is the name of the business where the well is located.

**FACILITY ID #**(if applicable)

NAME OF FACILITY PROGRESS ENERGY

STREET ADDRESS 200 C P AND L DRIVE

ARDEN | NC
City or Town | State | Zip Code

CONTACT PERSON PROGRESS ENERGY

MAILING ADDRESS 410 S. WILMINGTON STREET PEB 8

RALEIGH | NC | 27601
City or Town | State | Zip Code

( )-
Area code - Phone number

**5. WELL DETAILS:**

a. **TOTAL DEPTH:** 17.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 10.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 2.5 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____

**6. CASING:**

| | Depth | | Diameter | Thickness/ Weight | Material |
|---|---|---|---|---|---|
| From 0.0 | To 7.0 | Ft. | 2 INCH | SCH 40 | PVC |
| From ____ | To ____ | Ft. | | | |
| From ____ | To ____ | Ft. | | | |

**7. GROUT:**

| | Depth | | Material | Method |
|---|---|---|---|---|
| From 0.0 | To 3.0 | Ft. | Portland bentonite | SLURRY |
| From ____ | To ____ | Ft. | | |
| From ____ | To ____ | Ft. | | |

**8. SCREEN:**

| | Depth | | Diameter | | Slot Size | | Material |
|---|---|---|---|---|---|---|---|
| From 7.0 | To 17.0 | Ft. | 2.0 | in. | .010 | in. | PVC |
| From ____ | To ____ | Ft. | ____ | in. | ____ | in. | |
| From ____ | To ____ | Ft. | ____ | in. | ____ | in. | |

**9. SAND/GRAVEL PACK:**

| | Depth | | Size | Material |
|---|---|---|---|---|
| From 5.0 | To 17.0 | Ft. | 20-40 | Fine Silica Sand |
| From ____ | To ____ | Ft. | | |
| From ____ | To ____ | Ft. | | |

**10. DRILLING LOG**

| From | To | Formation Description |
|---|---|---|
| 0.0 | 10.0 | RED CLAY |
| 10.0 | 12.0 | TAN CLAY |
| 12.0 | 17.0 | TAN ROCKY CLAY |

**11. REMARKS:**

Bentonite seal from 3.0 to 5.0 Feet.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS. AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Johnny Burr — 09/20/07
SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE

JOHNNY BURR
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

**Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.**

Form GW-1b
Rev. 7/05

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3098

**1. WELL CONTRACTOR:**

JOHNNY BURR
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC.
Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD

STATESVILLE | NC | 28625
City or Town | State | Zip Code

( 704 )- 872-7686
Area code- Phone number

**2. WELL INFORMATION:**

**SITE** WELL ID #(if applicable) GW-4

STATE WELL PERMIT#(if applicable)

**DWQ** or OTHER PERMIT #(if applicable)

**WELL USE** (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

**DATE DRILLED** 08/06-08/07/07

**TIME COMPLETED** AM ☐ PM ☐

**3. WELL LOCATION:**

CITY: ARDEN COUNTY BUNCOMBE

200 CP AND L DRIVE
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE
LONGITUDE
Latitude/longitude source: ☐ GPS ☐ Topographic map

May be in degrees, minutes, seconds or in a decimal format

*(location of well must be shown on a USGS topo map and attached to this form if not using GPS)*

**4. FACILITY**- is the name of the business where the well is located.

**FACILITY ID #**(if applicable)

NAME OF FACILITY PROGRESS ENERGY

STREET ADDRESS 200 C P AND L DRIVE

ARDEN | NC
City or Town | State | Zip Code

CONTACT PERSON PROGRESS ENERGY

MAILING ADDRESS 410 S. WILMINGTON STREET PEB 8

RALEIGH | NC | 27601
City or Town | State | Zip Code

( )-
Area code - Phone number

**5. WELL DETAILS:**

a. **TOTAL DEPTH:** 24.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 18.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 2.5 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From ___ To ___ From ___ To ___
From ___ To ___ From ___ To ___
From ___ To ___ From ___ To ___

**6. CASING:**

| | Depth | | Diameter | Thickness/ Weight | Material |
|---|---|---|---|---|---|
| From 0.0 | To 14.0 | Ft. | 2 INCH | SCH 40 | PVC |
| From | To | Ft. | | | |
| From | To | Ft. | | | |

**7. GROUT:**

| | Depth | | Material | Method |
|---|---|---|---|---|
| From 0.0 | To 10.0 | Ft. | Portland bentonite | SLURRY |
| From | To | Ft. | | |
| From | To | Ft. | | |

**8. SCREEN:**

| | Depth | | Diameter | | Slot Size | | Material |
|---|---|---|---|---|---|---|---|
| From 14.0 | To 24.0 | Ft. | 2.0 | in. | .010 | in. | PVC |
| From | To | Ft. | | in. | | in. | |
| From | To | Ft. | | in. | | in. | |

**9. SAND/GRAVEL PACK:**

| | Depth | | Size | Material |
|---|---|---|---|---|
| From 12.0 | To 24.0 | Ft. | 20-40 | Fine Silica Sand |
| From | To | Ft. | | |
| From | To | Ft. | | |

**10. DRILLING LOG**

| From | To | Formation Description |
|---|---|---|
| 0.0 | 11.0 | RED CLAY |
| 11.0 | 17.0 | TAN CLAY |
| 17.0 | 24.0 | TAN ROCKY CLAY |

**11. REMARKS:**

Bentonite seal from 10.0 to 12.0 Feet.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C - WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Johnny Burr — 09/20/07
SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE

JOHNNY BURR
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

**Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.**

Form GW-1b
Rev. 7/05

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3093

**1. WELL CONTRACTOR:**

JOHNNY BURR
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC.
Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD

STATESVILLE | NC | 28625
City or Town | State | Zip Code

(704 )- 872-7686
Area code- Phone number

**2. WELL INFORMATION:**

**SITE** WELL ID #(if applicable) GW-5

STATE WELL PERMIT#(if applicable)

**DWQ** or OTHER PERMIT #(if applicable)

**WELL USE** (Check Applicable Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

**DATE DRILLED** 08/06-08/07/07

**TIME COMPLETED** AM ☐ PM ☐

**3. WELL LOCATION:**

CITY: ARDEN COUNTY BUNCOMBE

200 CP AND L DRIVE
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE __ __ ____
LONGITUDE __ __ ____
May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map
*(location of well must be shown on a USGS topo map and attached to this form if not using GPS)*

**4. FACILITY** - is the name of the business where the well is located.

**FACILITY ID #**(if applicable)

NAME OF FACILITY PROGRESS ENERGY

STREET ADDRESS 200 C P AND L DRIVE

ARDEN | NC
City or Town | State | Zip Code

CONTACT PERSON PROGRESS ENERGY

MAILING ADDRESS 410 S. WILMINGTON STREET PEB 8

RALEIGH | NC | 27601
City or Town | State | Zip Code

( )-
Area code - Phone number

**5. WELL DETAILS:**

a. **TOTAL DEPTH:** 30.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 15.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 2.5 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____

**6. CASING:**

| | Depth | | Diameter | Thickness/ Weight | Material |
|---|---|---|---|---|---|
| From 0.0 | To 20.0 | Ft. | 2 INCH | SCH 40 | PVC |
| From | To | Ft. | | | |
| From | To | Ft. | | | |

**7. GROUT:**

| | Depth | | Material | Method |
|---|---|---|---|---|
| From 0.0 | To 16.0 | Ft. | Portland bentonite | SLURRY |
| From | To | Ft. | | |
| From | To | Ft. | | |

**8. SCREEN:**

| | Depth | | Diameter | | Slot Size | | Material |
|---|---|---|---|---|---|---|---|
| From 20.0 | To 30.0 | Ft. | 2.0 | in. | .010 | in. | PVC |
| From | To | Ft. | | in. | | in. | |
| From | To | Ft. | | in. | | in. | |

**9. SAND/GRAVEL PACK:**

| | Depth | | Size | Material |
|---|---|---|---|---|
| From 18.0 | To 30.0 | Ft. | 20-40 | Fine Silica Sand |
| From | To | Ft. | | |
| From | To | Ft. | | |

**10. DRILLING LOG**

| From | To | Formation Description |
|---|---|---|
| 0.0 | 12.0 | RED CLAY |
| 12.0 | 17.0 | TAN CLAY |
| 17.0 | 30.0 | TAN ROCKY CLAY |

**11. REMARKS:**

Bentonite seal from 16.0 to 18.0 Feet.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Johnny Burr — 09/20/07
SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE

JOHNNY BURR
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

**Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.**

Form GW-1b
Rev. 7/05

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

**WELL CONTRACTOR CERTIFICATION #** 2402

**1. WELL CONTRACTOR:**

MIKE McCONAHEY
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC.
Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD

STATESVILLE | NC | 28625
City or Town | State | Zip Code

( 704 )- 872-7686
Area code- Phone number

**2. WELL INFORMATION:**

**SITE** WELL ID #(if applicable) PZ-19

STATE WELL PERMIT#(if applicable)

**DWQ** or OTHER PERMIT #(if applicable)

**WELL USE** (Check Applicable Box) Monitoring ☐ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use) PIEZOMETER

**DATE DRILLED** 10/16/06

**TIME COMPLETED** _____ AM ☐ PM ☐

**3. WELL LOCATION:**

CITY: ARDEN COUNTY BUNCOMBE

200 CP AND L DRIVE
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other _____
(check appropriate box)

LATITUDE ___ ___ _____
LONGITUDE ___ ___ _____

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map
*(location of well must be shown on a USGS topo map and attached to this form if not using GPS)*

**4. FACILITY**- is the name of the business where the well is located.

**FACILITY ID #**(if applicable)

NAME OF FACILITY PROGRESS ENERGY

STREET ADDRESS 200 CP AND L DRIVE

ARDEN | NC | 28704
City or Town | State | Zip Code

CONTACT PERSON PROGRESS ENERGY

MAILING ADDRESS 410 S. WILMINGTON STREET PEB 8

RALEIGH | NC | 27601
City or Town | State | Zip Code

( )-
Area code - Phone number

**5. WELL DETAILS:**

a. **TOTAL DEPTH:** 24.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 15.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____

**6. CASING:**

| | Depth | | Diameter | Thickness/ Weight | Material |
|---|---|---|---|---|---|
| From 0.0 | To 9.0 | Ft. | 2 INCH | SCH 40 | PVC |
| From ____ | To ____ | Ft. | | | |
| From ____ | To ____ | Ft. | | | |

**7. GROUT:**

| | Depth | | Material | Method |
|---|---|---|---|---|
| From 0.0 | To 3.0 | Ft. | Portland bentonite | SLURRY |
| From ____ | To ____ | Ft. | | |
| From ____ | To ____ | Ft. | | |

**8. SCREEN:**

| | Depth | | Diameter | | Slot Size | | Material |
|---|---|---|---|---|---|---|---|
| From 9.0 | To 24.0 | Ft. | 2.0 | in. | .010 | in. | PVC |
| From ____ | To ____ | Ft. | ____ | in. | ____ | in. | ____ |
| From ____ | To ____ | Ft. | ____ | in. | ____ | in. | ____ |

**9. SAND/GRAVEL PACK:**

| Depth | | | Size | Material |
|---|---|---|---|---|
| From 7.0 | To 24.0 | Ft. | 20-40 | Fine Silica Sand |
| From ____ | To ____ | Ft. | | |
| From ____ | To ____ | Ft. | | |

**10. DRILLING LOG**

| From | To | Formation Description |
|---|---|---|
| 0.0 | 1.0 | LEAF /TOPSOIL |
| 1.0 | 4.0 | TAN/ORANGE CLAYEY SANDY SILT |
| 4.0 | 14.0 | BROWN/BLACK/RED CLAYEY SANDY SILT |
| 14.0 | 24.0 | BLACK/TAN/ORANGE SILTY SAND |

**11. REMARKS:**

Bentonite seal from 4.0 to 7.0 Feet.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 11/28/06

MIKE McCONAHEY
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

**Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.**

Form GW-1b
Rev. 7/05

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

**WELL CONTRACTOR CERTIFICATION #** 2402

**1. WELL CONTRACTOR:**

MIKE McCONAHEY
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC.
Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD

STATESVILLE | NC | 28625
City or Town | State | Zip Code

(704 )- 872-7686
Area code- Phone number

**2. WELL INFORMATION:**

**SITE** WELL ID #(if applicable) PZ-22

STATE WELL PERMIT#(if applicable)

**DWQ** or OTHER PERMIT #(if applicable)

**WELL USE** (Check Applicable Box) Monitoring ☐ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use) PIEZOMETER

**DATE DRILLED** 10/18/06

**TIME COMPLETED** _____ AM ☐ PM ☐

**3. WELL LOCATION:**

CITY: ARDEN COUNTY BUNCOMBE

200 CP AND L DRIVE
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐Slope ☐Valley ☐Flat ☐Ridge ☐ Other _____
(check appropriate box)

LATITUDE __ __ _____
LONGITUDE __ __ _____
May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐GPS ☐Topographic map
*(location of well must be shown on a USGS topo map and attached to this form if not using GPS)*

**4. FACILITY**- is the name of the business where the well is located.

**FACILITY ID #**(if applicable)

NAME OF FACILITY PROGRESS ENERGY

STREET ADDRESS 200 CP AND L DRIVE

ARDEN | NC | 28704
City or Town | State | Zip Code

CONTACT PERSON PROGRESS ENERGY

MAILING ADDRESS 410 S. WILMINGTON STREET PEB 8

RALEIGH | NC | 27601
City or Town | State | Zip Code

(_____)-_____
Area code - Phone number

**5. WELL DETAILS:**

a. **TOTAL DEPTH:** 10.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 2.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From____ To____ From____ To____
From____ To____ From____ To____
From____ To____ From____ To____

**6. CASING:**

| | Depth | | Diameter | Thickness/ Weight | Material |
|---|---|---|---|---|---|
| From 0.0 | To 5.0 | Ft. | 2 INCH | SCH 40 | PVC |
| From | To | Ft. | | | |
| From | To | Ft. | | | |

**7. GROUT:**

| | Depth | | Material | Method |
|---|---|---|---|---|
| From 0.0 | To 1.0 | Ft. | Portland bentonite | SLURRY |
| From | To | Ft. | | |
| From | To | Ft. | | |

**8. SCREEN:**

| | Depth | | Diameter | Slot Size | Material |
|---|---|---|---|---|---|
| From 5.0 | To 10.0 | Ft. | 2.0 in. | .010 in. | PVC |
| From | To | Ft. | in. | in. | |
| From | To | Ft. | in. | in. | |

**9. SAND/GRAVEL PACK:**

| | Depth | | Size | Material |
|---|---|---|---|---|
| From 3.0 | To 10.0 | Ft. | 20-40 | Fine Silica Sand |
| From | To | Ft. | | |
| From | To | Ft. | | |

**10. DRILLING LOG**

| From | To | Formation Description |
|---|---|---|
| 0.0 | 1.0 | WEEDS/TOPSOIL |
| 1.0 | 3.0 | TAN/ORANGE CLAYEY SANDY SILT |
| 3.0 | 10.0 | BLACK/WHITE/BROWN/TAN SILTY SAND |
| | | WEATHERED ROCK |

**11. REMARKS:**

Bentonite seal from 1.0 to 3.0 Feet.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 11/29/06

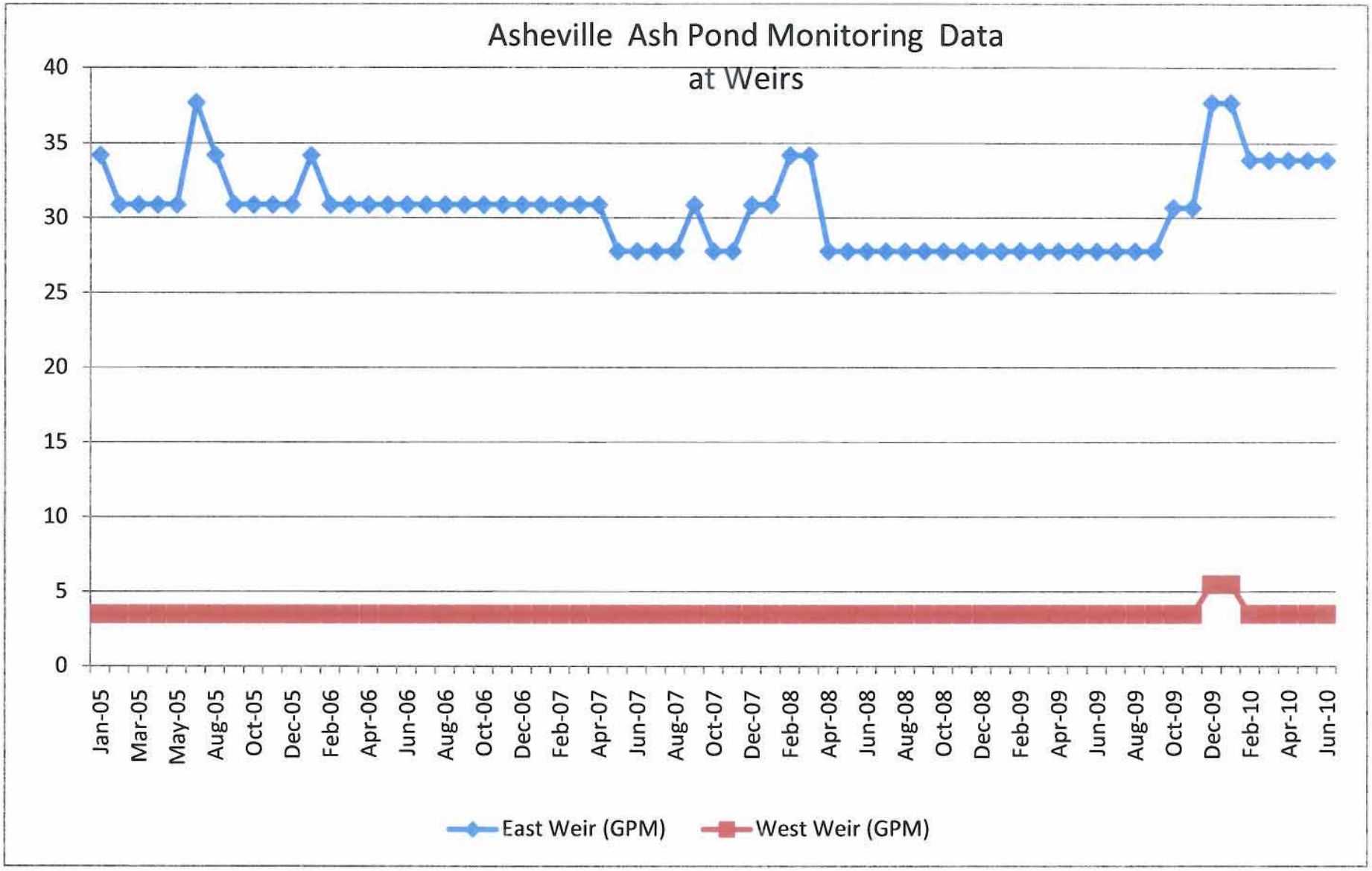
MIKE McCONAHEY
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

**Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.**

Form GW-1b
Rev. 7/05

**Appendix M**

Seepage Flow Measurements 2005-2010
Question 13


Asheville Ash Pond Monitoring Data
at Weirs
40
35
30
25
20
15
10
5
0
Jan-05
Mar-05
May-05
Aug-05
Oct-05
Dec-05
Feb-06
Apr-06
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
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Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10
Apr-10
Jun-10
East Weir (GPM)
West Weir (GPM)

**Appendix N**

Subsurface Investigation and Slope Stability Analysis of 1964 Ash Basin Dike
Question 13

# SUBSURFACE INVESTIGATION
# AND SLOPE STABILITY ANALYSIS
# OF 1964 ASH BASIN DIKE

## PROGRESS ENERGY - ASHEVILLE PLANT

**S&ME Project No. 1411-09-084**

**Prepared For:**

**PROGRESS ENERGY CAROLINAS**

**Prepared By:**

**S&ME, Inc.**
**44 Buck Shoals Road, Suite C-3**
**Arden, North Carolina 28704**

**Issued Final - April 5, 2010**

April 5, 2010

Progress Energy Carolinas, Inc.
7001 Pinecrest Road
Raleigh, North Carolina 27613

Attention: Mr. Bill Forster
Sr. Engineering Technical Analyst

**Reference: Geotechnical Investigation and Stability Analysis**
**1964 Ash Dike**
Asheville Steam Electric Plant
Buncombe County, North Carolina
S&ME Project No. 1411-09-084

Dear Mr. Forster:

S&ME, Inc. has completed our geotechnical investigation and slope stability analyses of the 1964 Ash Dike at the Asheville Plant. Our work was performed in accordance with our proposal number CIV-106-09r1 dated October 23, 2009 and under the terms and conditions of the Master Services Agreement with Progress Energy, Contract No. 143224.

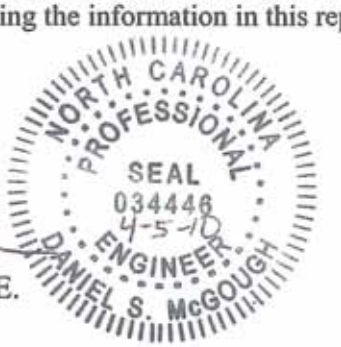
As part of our work we reviewed available historical documentation provided to us by Progress Energy. A subsurface exploration program was planned and executed to support updated slope stability analyses. This report describes and presents findings of our subsurface exploration and our slope stability analyses, and provides our geotechnical conclusions regarding the dike's slope stability.

A draft version of this report was issued on December 28, 2009. This final report dated April 5, 2010 reflects comments and edits resulting from an initial review by Progress Energy and a peer review by a third party consultant. Additional investigation and planning for improvements to the subject dike have taken place since the initial publication of this report. These will be discussed in a separate report that was still in progress at the time of publication of this April 5 report.

We appreciate the opportunity to provide these services to Progress Energy on this project. If you have any questions regarding the information in this report or we may be of further service, please contact us.

Sincerely,

**S&ME, Inc.**

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# 1.0 PROJECT INFORMATION

## 1.1 Background Information

The Asheville Steam Electric Plant is located in Skyland, North Carolina approximately 7.7 miles south of Asheville, North Carolina. The plant is roughly 3,000 ft east of the French Broad River and 0.8 miles south of the Interstate 26 and Long Shoals Road (NC Highway 146) interchange. The plant includes the power generating facilities, two ash storage impoundments (1964 dike and 1982 dike), and a cooling lake. Progress Energy and formerly Carolina Power and Light (CP&L) has operated the Plant since its construction in 1962-1964.

The 1964 ash dike originally consisted of a smaller dike that was constructed in 1964 as part of the original plant. The dike was raised and expanded across a second natural drainage to increase ash storage capacity in 1971. A new ash basin and dam constructed to the east of the 1964/71 dike was constructed in 1982, and the 1964/71 basin was retired, having reached its storage capacity.

The 1964/71 Ash Dike is a Class C, "high hazard" dam according to the North Carolina Division of Environmental and Natural Resources (NCDENR) classifications based on its potential impacts to roads and property downstream in the event of a breach. The 1964/71 Ash Dike has a maximum height of about 110 feet, so it would be classified as "large" by US Army Corp of Engineers (USACE) guidelines and "very large" according to NCDENR.

Following the failure of the ash dikes at TVA's Kingston Plant in December 2008, the EPA has assembled an inventory of ash basins, has requested documentation from utility companies on the ash basins, and has been reviewing the provided documentation and conducting site inspections. In June, 2009 the EPA issued a "Fact Sheet" (EPA530-F-09-006) in which the ash pond dikes at Progress Energy's Asheville Steam Electric Plant (Asheville Plant) were identified as High Hazard structures according to criteria developed by the National Dam Safety Program for the National Inventory of Dams.

Progress Energy was provided a report dated June 2009 prepared for the EPA by Dewberry & Davis with the results of their documentation review and site inspection. Included in this report was a "classification regarding suitability for continued safe and reliable operation" for each dike. The 1964 ash dike was classified as "poor". The report indicates the primary reason for the 1964 dike being classified as "poor" was because no documentation on the structural stability of the dike was provided to them.

Beginning with an initial meeting on October 26, 2009, we were provided copies of a number of historical documents and drawings related to the ash dikes. As we reviewed the historical documentation, it was decided that additional information would be required to perform a slope stability evaluation. Preliminary stability analyses based on parameters and cross sections from the historical documents indicated stability was marginal, and there were questions regarding the validity of some of the original design

parameters, as well as differences from planned to as-built conditions. A subsurface exploration program was planned and executed to help assess the existing condition of the dam and to support updated slope stability analyses.

### 1.2 Description of Dike and Ash Basin

The dike is a rock and earth fill embankment on the order of 2000 feet long with a 1.5:1 (H:V) downstream slope. The full dam height is approximately 110 feet from crest to original stream channel at the toe. (elevation 2158+/- to 2048+/-). The crest of the dike is between elevation 2157 and 2158 feet.

There is a stilling pool at the toe of the dike near its tallest section with a pond elevation of about 2060. The stilling pool is formed by a separate earth embankment just downstream from the main dike toe that is up to 20 feet high with 1.5:1 slopes. There is an open outlet structure embedded in the stilling pond dam that is about 20 feet deep that the water from the stilling pond drops into and then goes to a culvert under the Interstate highway.

The ash basin behind the dam was filled to capacity with ash up to about elevation 2150 between 1964 and the early 1980s. The water level in the old ash basin has dropped below the former maximum operating level and is substantially below the surface of the impounded ash. The ash basin surface generally appears relatively dry and stable and is covered in vegetation. There is a network of gravel roads over the old ash surface.

The northeast end of the old ash basin contains a "duck pond" that at the time of our investigation had a pond level of 2145. Most of the old ash basin closer to the dike is occupied by a wetlands wastewater treatment system. The south portion of the ash basin and near the south end of the dike is occupied by an embankment of dredged ash ("ash stack") with a crest elevation of about 2170.

## 2.0 DIKE AND ASH BASIN HISTORY

### 2.1 Historical Documentation Provided

As required by the NC Utilities Commission, 5-year Independent Consultant Inspections have been conducted on a regular basis for the ash dikes and cooling lake dam. We have been provided with copies of these 5 year reports dating from 1982. Since the currently active 1982 Ash Basin was brought into service, the 1964/71 Ash Basin has been considered inactive by the plant, and monitoring and inspection routines of the 1964/71 dike or ash basin have been limited.

Design documents from original dike construction in the early 1960s and major expansion in the early 1970s were also provided to us. Other documents provided to us that were reviewed and considered in our study included miscellaneous memorandums, annual inspection reports, investigations of seepage problems, studies to increase ash storage capacity, and studies for other facilities in the ash basin area. A listing of the relevant documents and drawings provided to us can be found at the end of this report.

## 2.2 Summary of Dike Design and Construction History

### *2.2.1 Original 1964 Ash Basin*

The original ash disposal basin was constructed in 1964 after construction of the power plant in the early 1960's. The original 1964 dike location, design cross-sections and ground topography in the vicinity is depicted on Ebasco drawing G-170984 dated October 17, 1962.

The original 1964 ash basin was formed by impounding water in a natural drainage feature with a homogenous earthen dam with a total length of about 950 feet long and a maximum height of 65 feet with a crest elevation of 2125 feet. The dike crest alignment consisted of two linear sections with a 49 degree bend near its center. The dike had a design crest width of about 8 feet, and side slopes with a 2:1 (H:V) inclination. Plans indicate the dike was to consist of "sandy fill or clay" excavated from the pond area and compacted to 90% of the modified Proctor maximum density.

The design included a blanket drain at the base of the fill embankment along the natural ground surface that extended from the downstream toe to 50 feet under the downstream slope. The blanket drain was limited to the center portion of the natural drainage feature, below an elevation of about 2080 feet, for a total width of about 170 feet. A small stilling pond dam that was about 12 feet high and 120 feet long was about 400 feet downstream of the toe of the main dike.

The 1992 5-year report by LAW states "CP&L requested that Ebasco provide a stability analysis of the 1964 ash pond dike after seepage along the lower portion of the dike was observed soon after construction was complete. A safety factor of 1.31 was reported at that time by Ebasco.....No stability analysis calculations have been located for the 1964 ash pond." We did not locate any other documentation on the original 1964 dike stability analysis in our file review.

### *2.2.2 1971 Expansion of Ash Basin*

In 1970-71 the ash basin was enlarged by raising the 1964 dike by about 30 feet and extending a new dike section across an adjacent drainage feature to the southeast where it tied into higher natural ground, then turned and continued toward the north. The total length of the dike with the 1971 expansion was about 3500 feet. The expanded ash basin maximum operating level was designed as elevation 2150.0 feet. The design crest elevation of the expanded dike would be 2157.5 feet. The ash basin expansion was designed by Brown and Root and is depicted in a series of drawings No. G-221-B through G-228 dated 12-03-69, stamped "As-Built" dated 5-15-72.

A system of survey stationing was established on these drawings beginning with station 0+00 near the enlarged dike's north end to near station 20+00 near the south end of the main section of the dike, then turning toward the north and extending to about station 35+00 at its end. The contact marking the end of the 1964 dike embedded within the 1971 enlargement and the portion of the dike consisting entirely of new material occurs at approximately station 9+50. The location of the outlet conduit extending beneath the

1971 dike is at about station 11+42. The highest section of the 1971 enlargement over the old natural drainage formerly extending through the area of the impoundment occurs near stations 13+00 to 15+00.

Geotechnical exploration and design recommendations for the ash basin dike expansion were provided by National Soil Sciences in a report prepared for Brown and Root dated October 1969. Soil test borings were performed along the proposed dike expansion alignment, in the existing dike, and in proposed borrow areas near the dike. Samples of borrow soils were tested to establish compaction moisture-density relationships and design soil shear strengths.

The National Soil Science report provided recommended cross sections to construct a dam with the materials available onsite. The geotechnical report provided recommended design details on a seepage cutoff trench that extended down to the top of "unweathered gneiss" that was determined by borings to generally be present 10 to 20 feet below the existing ground surface. Where the new dike was overlying the existing 1964 dike, the core would extend approximately 10 feet down into the existing dike fill material.

The new dike section consisted of a core approximately 10 feet wide with vertical sides. On either side of the core was a random earth fill layer that had side slopes of 2:1. there was a rock fill shell on the upstream and downstream slopes on top of the random earth fill layer that had a minimum width of 8 feet and increased in thickness toward the crest with a surface slope inclination of 1.5:1 (H:V). A 2-foot thick drainage zone consisting "fine to coarse sand or rock spalls" was to be placed in a vertical section on the downstream edge of the core and along the base of the fill against the natural ground surface.

The embankment area was generally intended to be stripped of topsoil with no significant excavation. The core cutoff was to extend down to "unweathered gneiss" generally expected to be 10 to 20 feet below the existing ground surface. An outlet pipe would be buried in a trench along the base of the dam near the highest portion of the dam at approximately station 11+42. Special cutoff and trench backfill recommendations were provided for construction of the outlet works and pipe through the dam. The pipe would exit the toe of the dam at an energy dissipation structure within the stilling pond.

Ash behind existing 1964 ash dam was to be removed by excavation and a cofferdam constructed of dumped earth and rockfill to accommodate the dike expansion. Design notes indicate the ash could be used as fill in the random earth fill zone upstream of the core below elevation 2125 feet. It is unknown if existing ash was removed from the area specified or if any excavated ash was actually incorporated into the random earth fill zone as was permitted by design specifications.

A new stilling pond embankment was to be constructed to create a larger stilling pool that would encompass the old pool. The old stilling pool embankment would be partially excavated to elevation 2058 feet and any remaining part of the embankment would be submerged by the new stilling pool. The new stilling pond embankment was designed to

be up to about 20 feet high with 1.5:1 slopes, and to consist of a core of relatively clayey soils with random earth fill zones on the exterior slopes.

The National Soil Science report includes a discussion of the seepage through the existing 1964 dike. They present water levels in borings and piezometers installed during their investigation. The report also includes a map of seepage exit points located by survey that indicate that seepage at the time was exiting about one-third to one-half the way up the downstream slope face. They also provide several alternate interpretations of seepage data, and conclude that overall the embankment has a higher horizontal than vertical permeability. The variable, but overall relatively high, elevation of the seepage daylighting on the downstream slope face was attributed to the presence of horizontal layers of relatively high permeability. They also concluded that the drainage blanket under the downstream slope was not having any appreciable affect on the internal phreatic surface.

We noted during our review of the geotechnical report and stability analysis for the 1971 expansion that the direct shear tests were conducted on samples that were partially saturated. It is modern standard practice to submerge the samples and allow them to soak prior to shearing them in a direct shear test. Additionally, it appears the samples may have partially dried during the test as evident by the lower moisture contents after the test as compared to before the test. Since the specimens were not saturated, and were allowed to dry during the testing, the resulting test results are not considered reliable by modern standards.

A number of particle size analyses, Atterberg limits tests, and standard Proctor compaction tests were conducted as part of the geotechnical study for the 1971 expansion. These tests should be relatively reliable, and the information they provide was considered in our study.

Dike Expansion Stability Analyses

The 1969 geotechnical report included slope stability analyses for two cross-sections of the proposed dike expansion. The stability analysis assumes a pool and ash storage elevation of 2150 feet, which was to be the maximum operating level with the expansion. The analyses were performed with a computer using the Bishop method.

One analysis section consisted of the existing 1964 dike section with a new zoned dike section constructed over the existing 1964 section to raise its height approximately 30 feet. The existing dike was modeled as a homogenous earth dam with a 2:1 (H:V) downstream slope with a height of 45 feet over a flat ground surface at elevation 2080. Water in the dike was modeled with a phreatic surface estimated based on the mapped seepage exiting on the downstream face of the existing embankment, with an assumption that the new embankment section's zoning would prevent water from rising into the Zone 3 material in the downstream portion of the new section, and would maintain the phreatic water level at or below its current position in the existing dike section. Reported factors of safety for steady state seepage conditions were 1.51, 1.84, and 1.99 for critical circles in various parts of the downstream slope for the typical section over the existing dike.

The other analysis section consisted of an approximately 70-foot high zoned embankment constructed over natural ground. A factor of safety of 1.54 is reported for the downstream slope in the new section over natural ground.

The soil shear strength parameters used in the stability analysis for the 1971 expansion are summarized in Table 1 below.

**Table 1 – National Soil Science Parameters for Stability Analysis**

| **Parameters used by National Soil Science in 1971 Expansion Design In Slope Stability Analysis for Long-term, Effective Stress Conditions** | | | |
|---|---|---|---|
| **Soil Type** | **Friction Angle, Φ' (degrees)** | **Cohesion, c' (psf)** | **Basis** |
| Zone 1 – Impervious Core | 38 | 0 | No test values provided, value of friction angle is assumed. |
| Zone 2 – Unweathered Rock | 45 | 0 | Assumed value |
| Zone 3 – Weathered and Unweathered Rock | 40 | 0 | 3 direct shear tests on remolded composite samples of borrow soils compacted to densities ≥ 95% std proctor $\gamma_{d,max}$ with moisture ≥ $w_{opt}$ (tested as-compacted, partially saturated). |
| Zone 4 – Drainage Zone | Not given | Not given | Drainage zone apparently ignored in analyses |
| Existing 1964 Embankment Fill | 38 | 0 | 2 drained direct shear tests on undisturbed samples (tested as-sampled, partially saturated) |
| Cofferdam Fill | 40 | 0 | Assumed value |
| Residual Soil | 38 | 0 | Assumed value |

### *2.2.3 Retirement of 1964/71 Basin and Construction of 1982 Basin*

The 1964/71 Ash basin was generally filled to capacity with sluiced ash as planned. The filled ash basin was abandoned in the early 1980's when a new ash basin (1982 dike) was constructed nearby. The south wing of the 1971 dike expansion had sections that were up to 45 feet high with 1.5:1 slopes was part of 1971 expansion of 1964 ash basin. When the 1982 basin was constructed, this portion of the 1964/71 dike was raised to elevation 2165 feet. Subsequently this structure served as a divider dike between the retired and active basins. The majority of this divider dike has since been buried on both sides with ash as both ash basins have become filled with sluiced ash and by the ash stacking projects.

Since the currently active 1982 Ash Basin was brought into service, the 1964/71 Ash Basin has been considered "inactive" by the plant, and monitoring and inspection routines have been very limited.

Towards the end of its active service period, there were increasingly problems noted regarding observed seepage from the 1964/71 ash dike. The seepage area receiving the greater attention appeared to be seepage through the weathered rock foundation materials near the south end of the 1964/71 dike. Water was emerging at several locations in relatively close proximity to Interstate I-26. The seepage was visible on the cut slope in multiple locations along the Interstate highway in a relatively large quantity. Measurements of seepage quantity in a weir placed in this area were typically on the order of 100 gal/min, and water could be observed "cascading" down the rock face along the Interstate.

Several studies were conducted by CP&L and outside consultants at various times to determine the cause of the seepage and to determine if it could be stopped or if it posed a hazard to the dam or cut slope along the interstate. These studies had various conclusions, generally that the seepage was going through the fractured PWR and rock under the dam rather than through the dam itself, that it did not threaten the stability of the dam or cut slope along the Interstate, and that there was not an economically feasible way to stop the seepage. The basin was generally abandoned in the early 1980's after construction of the 1982 dike. After wet sluicing of ash was stopped and most stormwater diverted away from the 1964/71 basin, the seepage along I-26 dropped considerably.

When the 1982 dike was constructed, the outlet from the 1982 pond was directed into a flume that carried the water along the toe of the 1964/71 dike down to the existing stilling pond at the toe of the 1964/71 dike. This was done mainly so the plant could maintain a single discharge point for the water coming out of the ash basins. The south end of the stilling pond embankment was modified to accommodate the new flume.

### *2.2.4 2000-2007 Ash Dredging and Stacking*

In 2000-2007 ash dredge from the active pond was stacked in the old ash basin area. Wet ash was placed in the old basin, allowed to drain, then piled in embankments, a process referred to as "ash stack". There is a large ash embankment that begins in the south portion of the 1964/71 ash basin and extends to the south and east. A drawing by P&A Engineers dated 1/6/03 is marked "As-built" for this ash stack and indicates a embankment crest elevation of about 2170, which is about 20 feet above the surrounding ash surface. In recent years, much of the ash stack has been removed and used for offsite structural fills, but at the time of our exploration parts of the stack remained, including the portion directly behind the 1964/71 dike.

On occasions when wet ash was reintroduced to the basin during dredging operations, the seepage along the I-26 cut slope described in section 2.2.3 became noticeable again. The seepage dropped back to a low level once the wet ash deposition was again stopped.

### *2.2.5 2004 Wetlands Treatment System*

The filled ash basin area immediately behind the main portion of the 1964/71 ash dike is occupied by a wastewater treatment lagoon system that was installed in about 2004. The treatment lagoons are at various elevations, but are generally 6 to 8 feet deep. They are lined with impervious materials, which according to construction documentation might be HDPE or a geocomposite clay liner (GCL). We understand the outlet of this wetlands system is plumbed into the former outlet conduit for the 1964/71 Ash Basin that is buried in this area near the monitoring building.

## 3.0 SUBSURFACE EXPLORATION PROGRAM

A subsurface exploration program was planned and executed to obtain subsurface data to support an updated slope stability analysis. The exploration included 11 soil test borings. Several of the borings were drilled at an angle from the vertical to permit observation and sampling of the materials underlying the rock face on the downstream slope of the 1971 expansion. Select soil samples obtained from the borings were subjected to laboratory tests. Groundwater observation wells were installed in the borings to allow for monitoring of the water levels in the ash basin and dike.

### 3.1 Soil Test Borings

A Boring Location Plan is included as Figure 1 in the Appendix of this report. Borings B-3, B-5, and B-7 were borings drilled from the upstream side of the dam crest at an angle of 30 degrees from vertical. The position and inclination of these borings allowed them to pass under the Zone 2 rock shell and extend into the Zone 3 fill under the downstream slope of the dam that was of primary interest in the slope stability study.

Borings B-4, B-6, and B-8 were vertical borings drilled near the center of the crest that extended down through the Zone 1 Core, through the cutoff, and into the foundation material. Borings B-1 and B-2 were drilled on the original 1964 dam crest through the 1964 fill and into the natural underlying soils. Borings B-10 and B-11 were drilled within the retired 1964/71 ash basin at accessible locations between wetland treatment cells about 100 to 150 feet upstream of the crest.

The soil test borings were performed by S&ME drill crews using several different types of drill rigs and drilling methods. The drilling equipment and methods used are noted on the individual Boring Logs in Appendix II. Some borings, including all inclined borings, were advanced with mud rotary techniques using a tri-cone roller bit. Some of the vertical borings were advanced with hollow stem augers.

Split-spoon samples and Standard Penetration Resistances (N-values) were obtained at selected intervals in general accordance with ASTM D-1586. An “autohammer” was used for the Standard Penetration Testing in the vertical borings. The autohammer typically has a higher efficiency than a traditional “safety” hammer, and this was compensated for in our analysis. Uncorrected $N_{FIELD}$-values as recorded in the field are shown on the Boring Logs in Appendix II. Penetration testing was not feasible in the inclined borings. Disturbed samples for visual inspection were obtained in the inclined

holes by hydraulically pushing the split spoon sampler with the drill kelly. Consistency of the materials was qualitatively assessed based on samples recovered, resistance to sampler penetration, and resistance to drilling.

In addition to the split-spoon samples, relatively undisturbed thin-walled tube samples were obtained with a Shelby tube sampler. A pitcher barrel sampler was used to obtain relatively undisturbed samples of higher consistency materials.

The soil samples obtained from the split spoon and undisturbed sampling were examined in the field and laboratory by S&ME geotechnical professionals, and visual and manual classifications were estimated, using the general procedures of the Unified Soil Classification System (USCS).

The boring locations were established in the field by our personnel by tape measuring distances from existing site features identified on the old site plans provided to us at the start of our work. The boring locations were chosen to develop representative cross sections for the slope stability analyses. The actual boring locations were surveyed after they were drilled, and are shown on Figure 1 in the surveyed locations. Boring Logs presenting the subsurface information obtained are included in Appendix II. The ground surface elevations shown on the Boring Logs are based on the survey data. The boring survey data is included in Table F5 in Appendix II.

Some excavation and grading was required in preparation of our drilling on the dam crest. Due to the composition of the rock fill material and the steep inclination of the downstream slope, it was impractical to drill borings on the downstream slope face. It was decided to attempt to drill inclined borings from the upstream side of the crest that extended through the core, passed under the bottom of the rock shell on the downstream slope, and extended into the random earth fill zone in the downstream slope that was of primary interest. It was unknown at the start of our exploration what the actual composition of the random earth fill would be, or if as-built internal boundaries of the rock fill were accurate.

The Brown and Root plans referred to the zone 3 fill as “weathered and unweathered rock”. Attempts were made to excavate test pits on the upstream side of the core and remove the rock shell material to allow for vertical borings extending into the zone 3 material on the upstream side of the crest. However, the rock shell material was found to extend to depths greater than 15 to 20 feet, and it was not practical or desirable to excavate beyond these depths. Due to this, the proposed vertical borings on the upstream side of the crest were omitted.

In order to allow for drilling of the inclined borings, a portion of the rock fill material on the upstream side of the dam crest was removed with a tracked excavator and replaced with soil, ash, or aggregate base course to accommodate the drilling. The approximate extent of these excavations is recorded on the plan and in the cross section drawings for future reference. After the rock fill material was removed, the proposed inclined borings were advanced successfully as planned. The locations of the borings were surveyed as

they were drilled prior to reconstructing the upstream slope as well as after the areas were restored to approximately their original grades following completion of our drilling. All depths noted on the boring logs are relative to the ground surface at the time of drilling which was generally below the finished ground surface once the upstream slope was reconstructed following drilling completion. The depths on the boring logs for the inclined borings are measured along the inclined alignment of the borehole from the time of drilling ground surface. The three inclined borings were advanced at an angle of 30 degrees from vertical. These borings were extended until hard residual soils or partially weathered rock were encountered below the base of the dam. .

The top of the core was encountered about 5 to 6 feet below the dam crest, rather than at an approximate 1-foot depth as indicated on the Brown and Root drawings. The fill between the road base course and the top of the core consisted of mixed soil and rock fill that contained a large proportion of large rock pieces that were not practical to drill through. As for the inclined borings, a tracked excavator was used to remove the mixed rock and soil fill material from each of the crest boring locations down to the top of the core material and backfilled the excavations back to the crest road level to allow for drilling.

## 3.2 Observation Wells / Piezometers

Standpipe piezometers or observation wells were installed in both inclined and vertical borings. Piezometers had screened intervals varying from 10 to 20 feet in length. The borehole above the screened interval was filled with filter sand to slightly above the screen depth. Several feet of bentonite pellets were placed in the borehole above the sand pack and screen to provide a seal. Upon completion of all borings, the remaining open length of all the boreholes was filled up to the ground surface with a bentonite grout pumped into the hole through a tremie pipe. A summary of the well construction and initial water measurements are in Tables F1, F2, F3, and F4 in Appendix II.

Installation of the wells in the inclined borings was difficult due to the boreholes caving in. These boreholes generally were caving at various depths within the zone 3 mixed fill material. The screen and riser pipe were placed to the bottom of the borehole, but no filter sand was placed around the screen interval. These inclined wells generally had a longer than normal 20-foot screen length to allow for potential clogging of portions of the screen. The lower portion of boreholes B-10 and B-11 in the ash were also not stable, so the screen interval was only partially surrounded by sand. All wells were flushed with clean water after drilling and again at the time of grouting.

Protective steel casing or surface flush mount covers were installed at the top of the wells. The covers require tools to open to discourage vandalism. They were intentionally left unmarked, with no labels so as not to be mistaken for groundwater quality monitoring wells. They were not installed in strict accordance with NCDENR requirements for monitoring wells. These standpipe piezometers/observation wells are intended to be functional as instrumentation to observe groundwater levels and the phreatic surface within the ash basin and dam.

There are a number of existing wells/piezometers that we understand were installed as part of the ash stacking project in the old ash basin. We collected water level readings in existing wells #27 and #28 that were located about 370 feet and 35 feet, respectively, from the dam crest near dike station 15+00 and had the surveyors locate these wells and include them on our Boring Location Plan, Figure 1.

### 3.3 Laboratory Testing

The undisturbed tube samples were transported to our laboratory. The tube samples were trimmed and visually examined by our laboratory staff. Select samples were subjected to the following laboratory tests:

- Natural Moisture Content
- Particle-Size Distribution
- Atterberg Limits
- Insitu Unit Weight
- Specific Gravity of Solids
- Consolidated Undrained (CU) Triaxial Shear

The laboratory test results are discussed in terms of the described properties of individual soil zones later in this report. A summary of the lab tests is included in Table L1 in Appendix III of this report. Detailed results and information for the individual tests are included on data sheets also included in Appendix III. The testing was performed in accordance with ASTM or other applicable testing standards.

## 4.0 SUBSURFACE EXPLORATION FINDINGS

### 4.1 Subsurface Conditions

The following brief generalized description of subsurface conditions encountered at the site is provided. For more detailed information, please refer to the individual Boring Logs included in Appendix II. For purposes of discussion, soils were subdivided according to the zone designations used in the Brown and Root as built plans.

Three cross-sections based on the survey and subsurface data obtained at three selected locations are presented in Figure 4 in the Appendix. The soil layer boundaries shown in these cross-sections are interpretive, and should be considered approximate. The cross-sections were developed based on the survey data, the available data on the original ground topography, the drawings for the 1964 dike and 1971 expansion, other information from historical documentation, and interpolation between data collected in our exploration.

#### *4.1.1 Original 1964 Dike Fill*

Existing fill soils that are part of the original 1964 dike were sampled in borings B-1 and B-2 and their respective offset borings B-1A and B-2A, as well as in the lower portion of inclined boring B-3. The fill extended to a depth of about 49 feet in Boring B-1 and to about 23 feet in Boring B-2. The fill consisted primarily of silty sand, but also sandy silt, sandy clays, and rock pieces. SPT N-values obtained in the original 1964 Dike fill ranged from 7 to 39 bpf and imply the soils to be generally moderately to well-compacted. The fill was generally free of organic material or debris.

### *4.1.2 1971 Zone 1 – Core*

Existing fill soils that are part of the core of the 1971 expansion were encountered in borings B-4, B-6, and B-8 drilled vertically on the crest of the dike, as well as in the upper portions of inclined borings B-3, B-5, and B-7 drilled on the upstream side of the crest. The core consisted primarily of sandy lean clay, but also included sandy silts and some silty sand with rock fragments. The core extended to depths ranging from 92 to 111 feet below the dam crest in Borings B-4, B-6, and B-8. The inclined borings passed through the core and indicated the core is generally on the order of 10 feet wide and roughly centered under the crest as is indicated on the Brown and Root design drawings.

SPT N-values obtained in the core material typically ranged from 8 to 30 bpf, indicating the fill was generally well-compacted. At one location in boring B-4 at a depth of about 60 feet near the transition from the 1971 core to the upstream slope of the original 1964 fill, an SPT value of WOH was obtained which could indicate a very poorly compacted zone of the fill or possibly some sort of deterioration of the core at this particular location. The core fill material was generally free of excessive organic material or debris, although soil containing some organic content, organic odor, and roots were observed. This would be expected due to these clayey soils typically originating from shallow excavation near the natural ground surface and from drainage areas.

The top of the core was found to start about 5 to 6 feet below the dam crest, rather than at the approximately 1 foot depth as indicated on the Brown and Root drawings. The fill between the road base course and the top of the core consisted of mixed soil and rock fill.

### *4.1.3 1971 Zone 2 – Rock Fill*

The downstream slope face of the dike is covered with a rock fill shell referred to on the Brown and Root plans as Zone 2, “unweathered rock”. No borings could be drilled in this material due to its large size and steep orientation of the rock face. Based on observations of the surface, this material appears to consist of relatively unweathered metamorphic rock pieces commonly ranging from 6 to in excess of 48 inches in size, with some larger boulders as well as zones of smaller gravel to cobble size rock pieces. The rock pieces are erratic in size and shape with angular sides and edges. The general appearance and angularity of the rock suggest the rock to be quarry run material that was possibly screened to remove most of the soil-sized particles from the rock.

The rock shell appears relatively stable at its steep 1.5:1 inclination. Some stray boulder size fragments appear to have rolled off the slope in the past and have collected at the toe. Some undulations or irregularities in the slope face are visible, but there generally are not apparent signs of past sloughing or other instability of the rock face. The rock fill on the upstream slope was observed in the test pits to be composed of an erratic mixture of large to small rock pieces and soil. It is assumed that the downstream rock shell is composed of relatively clean, durable rock as was called for in the design and is observed on the downstream slope face. Along the profile constructed at station 13+50 the Zone 2 materials appear to be submerged below the surface of the stilling basin (pool elevation 2060.4). The toe elevation of the Zone 2 material based on the old plans and topographical mapping of the ash pond area is between 2045 and 2050 feet.

### *4.1.4 1971 Zone 3 – Random Earth Fill*

Existing fill soils that are in the mixed fill zone of the 1971 expansion, referred to as Zone 3, "weathered and unweathered rock" were encountered in borings B-3, B-5, and B-7. These soils appeared to be typical of excavated residual soils in the Asheville area. The mixed fill was composed primarily of silty sand, but also contained appreciable amounts of sandy silt, as well as some sandy lean clay. The fill contained various amount of rock fragments and rock pieces. No large boulders or rock fill layers were encountered in the mixed fill zone that prevented mud rotary borehole advancement with a tricone roller bit.

Fill layers containing significant proportions of rock pieces and fragments that were difficult to penetrate or sample were occasionally encountered. The fill was generally free of organic material or debris. Many of the split spoon samples that were known to be within the Zone 3 fill consisted of pieces of intact saprolite or partially weathered rock. The lower portion of the fill in inclined borings B-5 and B-7 became increasingly dense and may have been composed of larger blocks of partially weathered rock and contained increasingly more rock pieces.

It was particularly difficult to discern the transition from fill to residuum in Boring B-5. The three inclined borings extended through the base of the fill and into residual soils under the dam at depths between 96 to 104 feet as measured along the drilling angle from the ground surface at the time of drilling. No SPT values were obtained in the 1971 Zone 3 material due to the inclination of the borings.

### *4.1.5 1971 Zone 4 – Drainage Zone*

Sand drain material referred to as Zone 4, "drainage zone" on the Brown and Root drawings was encountered near the anticipated elevation of the base of the fill in several locations. The drainage zone sand was sampled in borings B-5 and B-7 on the downstream side of the core at approximately the position indicated on the design drawings. Sand drain material was also sampled with the pitcher barrel sampler near the bottom of boring B-7 at a depth of 100 to 104 feet that would be the expected elevation of the horizontal drain zone along the base of the fill on the natural ground surface, based on inspection of old topographic drawings of the ash pond area. In both of these borings, the sampled sand consisted of clean, angular, fine to coarse sand. This material appeared to be manufactured or imported from an offsite source.

In other locations where the drainage layer was anticipated we were unable to verify the existing of the drain based on examination of the recovered samples, though the presence of the drain is in some locations suggested by other observations related to the drilling process. Absence of definable drainage material in some cases is likely due to the relatively thin 2-foot thickness of the drainage layer relative to the five-foot sampling intervals used in the deeper borings. The evident absence of a definable drainage zone could also be explained by the drain being largely composed of "rock spalls" as was allowed by the design drawings and specifications, or some other derivative of onsite materials that contained larger rock pieces, that were not successively sampled or identified as being the drainage layer. In Boring B-3, a significant amount of drilling

fluid was lost repeatedly in a depth range from 21 to 26 feet that would correspond to the approximate depth where the vertical and/or the horizontal drainage layers would be expected for the section where the 1971 addition was constructed over the 1964 existing dike. Unusually rocky fill layers were encountered where sample recovery was poor near the expected depth of the horizontal drain near the bottom of Boring B-5.

The excavations made on the upstream side of the core did not encounter any Zone 4 drain material as is depicted on the design drawings on the upstream side of the crest, indicating the upstream drainage zone was likely omitted.

### *4.1.6 Residual Soil, Partially Weathered Rock, and Rock*

Residual soils and/or partially weathered rock (PWR) were encountered in all of the borings that extended through the dike. Residual soils and PWR have weathered in place from the underlying parent bedrock. Partially weathered rock is defined as a transitional material between hard residual soil and rock that has an SPT resistance value of at least 50 blows per 6 inches (50/6”). Rock is typically interpreted as material that causes auger or tricone bit refusal. The residual soils were typically silty sand and some sandy silt. The partially weathered rock was similar in composition and appearance to the residual soil.

Borings B-6 and B-8 in the 1971 dike section extended through the cutoff and encountered partially weathered rock immediately below the bottom of the core material. The contact between the bottom of the core and the underlying PWR in the boring imply that the core and cutoff were extended to rock (or at least hard PWR) as design plans required. Borings B-4 and B-6 were terminated in PWR with SPT resistance of 50/2” to 50/3”. Boring B-8 encountered tricone bit refusal at 112 feet. In the inclined borings, no SPT values could be obtained to discern between residual soil or PWR. Inclined borings B-3 and B-7 encountered 3.5 to 5 feet of residual soil or PWR below the bottom of the fill before being terminated at a depth of 102.5 feet and 107.6 feet, respectively. Boring B-5 penetrated between 2 and 8 feet of residual soil or PWR and then encountered tricone bit refusal at 102 feet.

SPT resistance values in the residuum ranged from 10 to over 50 bpf, indicating a medium dense to very dense relative density for silty sand or a stiff to very hard consistency for sandy silt.

### *4.1.7 Coal Ash in Ash Basin*

Borings B-10 and B-11 were located within the retired ash basin approximately 135 and 194 feet, respectively behind the main dam axis along the crest. These locations were selected to coincide with the cross sections passing through approximate dike stations. These borings were located on roadway embankments constructed between the wetland treatment system cells. The borings encountered roadway materials including aggregate base coarse and soil fill to depths of 6 to 24 inches. Below the roadway fill, the borings encountered coal ash until termination at a depth of 60 feet. The ash was in layers of varying grain size and character, with some being wet and soft and very fine grained, while other layers were relatively dry and sandy. Water was apparently perched in some

layers well above the general groundwater level. Ground water was encountered in both borings near a depth of 20 feet, below which depth the ash was saturated and became noticeably looser or softer until boring termination depth.

The ash typically classifies as sandy silt or silty sand, with USCS group symbols of ML and SM. Coarse sand and gravel-sized bottom ash layers were occasionally encountered. The ash is typically dark gray to black in color. SPT resistance values (uncorrected field values) in the ash ranged from 0 or WOH (weight of hammer) to 12 blows per foot (bpf), indicating a consistency for silt ranging from very soft to stiff or a relative density for sand ranging from very loose to medium dense.

### *4.1.8 Ground Water*

Water levels observed in the open boreholes and in the standpipes are shown on Tables F2 and F3 in Appendix II. Water levels noted during drilling or in open boreholes after drilling are noted on the logs where these were collected. In the absence of water levels at TOB or 24 hrs, selected water levels in the standpipes are shown on the boring logs as 24 hour levels. All water level readings in the open boreholes and in the standpipes are included in Tables F2 and F3 in Appendix II of this report.

Water levels from the two most recent readings (11/24/09 and 12/14/09) indicate the water levels had become relatively stable, with differences from the December 14, 2009 levels compared to the November 24, 2009 levels of 0.3 to 1.0 feet.

Long-term records of the groundwater level in the retired ash basin have not been kept. The active 1982 ash pond immediately adjacent to the 1964/71 basin has a pool elevation of about 2159 feet that is regularly monitored. The far north end of the retired ash basin near the plant has been maintained as an open pond and is now referred to as the “duck pond” by plant personnel. According to plant personnel, the duck pond maintains a standing pool of water that appears to be relatively constant, but measurement records of the pond water level are not kept. Survey data from November 2009 indicates the duck pond has a water surface elevation of 2145.8 feet. Older topographic plans from the 2004 wetlands system plan and a 1996 aerial topography plan in some of the old reports indicated a water level at that time of 2138+/-. The ground water level apparently drops with distance from the duck pond in the far north end of the old ash basin. At the time of our exploration and monitoring period prior to this report, the ground water level in the ash near the dike between Stations 9+00 and 13+50 is at elevation 2133 to 2135, or about 15-17 feet below the filled ash pond ground surface.

Ground water levels will fluctuate due to such things as seasonal variations, rainfall, plant operations, and construction activity in the area. We note that the preceding months have been relatively wet, with rainfall totals in the last few months being above the historical averages for Asheville.

## 4.2 Laboratory Test Results

Select samples of soils obtained from the drilling program were subjected to laboratory tests for general classification and for shear strength parameters. The laboratory test results are summarized in Table L1 - Laboratory Test Summary in Appendix III of this report.

### *4.2.1 Classification Tests*

The USCS classifications of the 1964 dike fill and the 1971 Zone 3 Mixed fill based on the grain size distribution tests and Atterberg limits tests are SM, SC, ML, and CL. The soils have from 23 to 55 percent fines (material passing a No. 200 sieve). The minus No. 40 sieve portion of this soil has a liquid limit (LL) ranging from 27 to 49, and a Plasticity Index (PI) of 2 to 16. Some of the materials within Zone 3 resemble the core materials identified as Zone 1.

The Zone 1 core soil was classified by the laboratory tests as a CL. The core soil has 54 to 64 percent fines, a liquid limit ranging from 39 to 49, and a plasticity index of 20 to 22.

### *4.2.2 CU Triaxial Shear Strength Tests*

Shear strength parameters of relatively undisturbed soil samples were obtained by Consolidated Undrained (CU) Triaxial shear tests on a total of 21 specimens, including 6 of the original 1964 dike fill, 11 from the 1971 Zone 3 Mixed Fill, and 4 from the 1971 Zone 1 Core.

Confining stresses for individual tests were assigned based on consideration of the typical stress range for the anticipated failure surfaces, as well as consideration of the in situ stresses of the samples. The shear strength parameters interpreted from the CU triaxial tests were based on a failure criteria defined by the maximum principal stress ratio. A p'-q plot representing the selected failure points of each test for each material type tested is presented in Figures L1 and L2 in Appendix III. The p'-q data for individual triaxial tests are shown in Tables L1 and L2 in Appendix III.

Samples representing the 1964 dike fill exhibit very similar test behavior to the 1971 mixed fill, and for purpose of assigning shear strength parameters for stability analyses we have considered the two materials as a combined group. It is reasonable that these two materials would have similar strength properties, in that they both appear to be relatively well-compacted, and they both originated from onsite borrow areas.

The effective stress friction angle and cohesion values were interpreted from the p'-q plot shown in Figure L1 of the points on the stress paths at failure points selected at the maximum principal stress ratio. Our interpretation of the shear strength test data for the mixed fill material is based on giving priority to consideration of the data points that were generated from samples thought to be in a normally consolidated state (i.e., the confining stress at the start of the test was about equal to or greater than the estimated insitu vertical effective stress.) The samples thought to be tested in an overconsolidated state tended to

indicate a relatively high cohesion and lower friction angle that was not considered representative of field conditions. Omitting samples considered as having been tested under confining stresses substantially less than the vertical effective stresses at the depths the samples were obtained, the 1964 and 1971 fill materials consisting primarily of silty sand is interpreted to have zero cohesion under effective stress and an angle of internal friction of 40 degrees.

The CU triaxial tests on the 1971 core material consisting of well-compacted sandy clay indicated an effective stress friction angle of about 33 degrees and cohesion of 1550 psf. The p'-q plot of the CU triaxial test results for the 1971 core material is included as Figure L2.

# 5.0 SLOPE STABILITY ANALYSIS

## 5.1 Cross-Sections for Stability Analyses

Three cross-sections were developed based on the subsurface data, historical documents, and the 2009 survey data. These cross- sections included:

1) Section at Station 9+00 – 1971 addition above and upstream from crest of original 1964 dike.
2) Section at Station 11+50 – 1971 dike over natural ground at the outlet works.
3) Section at Station 13+50 – 1971 dike over natural ground at maximum height.

These cross sections at these approximate dike stations 9+00, 11+50, and 13+50 are shown in Figure 4 in the Appendix. The locations of these cross-sections are shown on Figure 1 in the Appendix.

The natural ground surface depicted on these cross sections is based on the survey data, the boring data, and in large part on historical drawings. These drawings include the original ground and rock surfaces depicted on the cross-sections on Brown and Root drawings G-223, G-224, and G-225. Original ground topography in the dike area is shown on Ebasco drawing No. G-170984 and on Brown and Root drawings No. SK-C.12269-1 and SK-C.12269-2. Brown and Root drawing No. G-227 includes a detail plan of the stilling pond area that shows the original ground topography, the extent of the 1971 dike toe that is now covered by the stilling pond, and the original 1964 stilling pond.

The cross section at station 13+50 used in our stability analysis is intended to represent the maximum height section of the dike. At this section the dike crest is approximately elevation 2157.5 and the toe of the downstream slope intersects the original natural stream channel at an elevation between 2045 and 2050.

The cross section at station 11+50 includes only the basic outline of the outlet conduit and outlet works for reference. Brown and Root drawing No. G-225 provides these details. The station 11+50 cross section is actually offset from the outlet works alignment, which is documented at about station 11+42. The borings B-5 and B-6 were

actually offset further from the outlet works, and were located at approximate Stations 11+59 and 11+69, respectively.

The cross sections as presented in Figure 4 were used in the slope stability modeling program with only minor simplifications to the geometry. The stability analysis for section 11+50 was not performed because it is considered to be bracketed by the other two cross sections. The 11+50 and 13+50 sections have similar geometry and soil types, but the 11+50 section has a slightly lower total slope height and a lower phreatic water level than the 13+50 section. Stability analysis was conducted for both the station 13+50 section and the station 9+00 section due to the significant differences between the construction of these two sections.

## 5.2 Interpreted Water Levels in Stability Analyses

The estimated phreatic surface inside the dam based on our interpretation of the piezometer data and seepage observations is illustrated on the cross-sections in Figure 4 in the Appendix.

The water levels shown on these cross-sections are based on the levels recorded at the time of our exploration and the monitoring period from November to December 14, 2009 prior to publication of the current report. Interpreted water levels are also based on surface observations of standing water and seepage at the time of our exploration. A detailed seepage analysis not performed. For the slope stability analysis, a phreatic water surface was estimated within the embankment based on the available information, and pore pressures were computed based on their depth below the water surface. This neglects flow velocity forces, which would tend to decrease the stability of the slope, as well as negative pore pressures that would be present in portions of the slope and would increase the stability of the slope. Steady state seepage conditions are assumed.

Special water conditions were generally not analyzed. The absence of the stilling pond was found to generally increase the factor of safety as compared to the same cross section with the stilling pond, since water levels in the toe portion of the dike would drop down to the ground surface if not being charged by the stilling pool. The stilling pond water level is maintained at a relatively constant elevation by the outlet structure, and would be expected to vary only minimally under current operating conditions.

The original hydrologic analysis of the 1964/71 ash basin for a large storm event indicates the normal operating level of the ash basin could rise from 2150 feet to about 2153+/- feet. The measured water level in the retired ash basin near the dike is currently well below the design maximum operating level of 2150 feet. The retired basin has a smaller drainage area now than when it was first designed, since most stormwater from the vicinity appears now to be routed to the 1982 ash basin. Measured water levels within the retired ash basin may fluctuate some over time with weather, climate, or seasonal variations. The water levels within the retired ash basin are not expected to rise to near the original design maximum water level.

### *5.2.1 Water Levels at Sections 11+50 and 13+50*

The groundwater levels indicated by the standpipes at Stations 11+50 and 13+50 indicate the 1971 drainage zone on the downstream side of the core is generally functioning as intended.

It is not clear if the core is functioning as a relatively impermeable barrier as designed or not. We suspect that with the heterogeneous nature of the fill materials combined with normal construction inconsistencies, the infiltration from the ash pond likely goes through some portions of the core relatively unimpeded above the general phreatic surface level. The drainage zone on the downstream side of the core would be expected to filter and capture water that may be leaking through the core in isolated areas.

The ground water levels in the core and downstream slope at station 13+50 are higher than those at Station 11+50. The water level in the standpipe in Boring B-7 under the downstream slope is near elevation 2079 feet, or about 10 to 15 feet above the horizontal drainage zone at that location. The lower water level at station 11+50 may be due to the proximity of the outlet conduit that would have been buried in a trench below the base of the fill in the surrounding area, and water is conducted in the backfill materials placed around this pipe. The difference in water levels between the sections may reflect differences in the effectiveness of the core or cutoff trench in impeding water seepage or in the drainage zone in collecting water seepage. It may also be due to the influence of a variable fill depth and natural ground surface. The seepage level might also be influenced by the natural stream channel that would have passed under the dike at an angle between stations 13+00 and 15+00 and draining toward the stilling pool.

### *5.2.2 Water Levels at Section 9+00*

At Station 9+00, the water levels are more difficult to interpret due to a more complex cross section. Several varying interpretations of the water level data for the cross section that includes the original 1964 dike are illustrated in the Station 9+00 Cross Section on Figure 4 in the Appendix.

There is a substantial amount of water at the ground surface on the original 1964 dike crest. Much of the water on the 1964 crest is believed to originate from rainfall on the slope of the 1971 addition above and drains onto the 1964 crest. The amount of water here increases noticeably after periods of rain. The borings B-1, B-1A, and B-2 standpipes located in the original 1964 dike crest with various screened depth intervals have stabilized at several different water levels. A wide range of water levels were also observed in the open boreholes on the 1964 crest prior to installation of the standpipes.

Standing water on the 1964 dike crest would be expected if the 1971 addition section were capturing water in its drainage zone and draining onto the 1964 dam crest as designed. The ash pond level is currently at about elevation 2134 feet, which is about 8 feet above the 1964 dike crest level of about elevation 2126, so there is still some amount of head difference. There is a concrete ditch system that is in disrepair that was designed to collect water from the 1971 addition drainage zone and carry it off the original 1964 dike slope.

The water in the inclined Boring B-3 is nearly level with the water observed at the toe of dam at this section. Old plans of the original ground topography in the dike area indicates that the natural stream or drainage channel crossed under the 1964 dike at an angle slightly to the south and east of where the station 9+00 cross section passes through the 1964 dike. Water is also present in the ditch along the toe of the 1964 dike. It is believed that seepage is mainly conducted along the interface of the fill and natural ground surface, and is flowing predominantly along the natural stream channel that was impounded by the original 1964 dike and continued toward the stilling pond. There is a prominent area of emerging seepage at elevation 2080 to 2090 near the junction of the 1971 rock fill, the original 1964 dike slope, and the natural ground surface that may be originating from the original 1964 dike rock drainage blanket that would have been along the natural drainage channel. Seepage observed to emerge from the toe of the dike near stations 9+00 to 11+00 lies near to where the old drainage swale would have emerged from below the toe of the dike, suggesting that seepage may be passing below the dike along the orientation of the old swale.

Water is also thought to be seeping along the natural ground and from natural springs from higher elevations in the direction of Boring B-2 and the north end of the original 1964 dike and flowing downhill in the direction of Boring B-1 as it drains toward the stilling pond.

At the time of the 1971 expansion design, seepage was emerging from the slope face well above the toe based on the pond level at that time (approx elev. 2120+/- feet). With the pond level up at its maximum operating level of 2150 feet, there may have been water emerging from the 1964 dike slope face, but to our knowledge there is no record of this since construction of the 1971 addition. The ash pond water level is currently at about elevation 2134 +/- feet, and there is not any free water emerging from the 1964 dike slope face. There is water in the ditch at the toe of the 1964 dike slope and in the seepage areas noted above. The dike fill soil is wet up to a level about 5 feet up the slope above the ditch level. The historical documentation as compared to current conditions generally indicates the seepage patterns have changed in the 1964 portion of the dike over time. While this may present concerns related to seepage and potential piping, this has actually improved the dike slope stability as the overall phreatic levels inside this portion of the dike have dropped, and there is no longer water daylighting from the slope face.

## 5.3 Soil Properties in Stability Analyses

The soil properties assigned to the various soil zones were based on the laboratory shear strength tests, the SPT blow counts and other boring data, the soil classifications, and experience. Table 2 below summarizes the material zones and the properties assigned to each in the stability analyses.

**Table 2 – Soil Parameters for Stability Analysis**

| Soil Parameters for Stability Analysis for Long-term, Effective Stress Conditions for Downstream Slope | | | |
|---|---|---|---|
| **Soil Type** | **Friction Angle, Φ' (degrees)** | **Cohesion, c' (psf)** | **Unit Weight (pcf)** |
| Zone 1 - Core | 32 | 200 | 120 |
| Zone 2 -Rock Shell | 45 | 0 | 120 |
| Zone 3 - Mixed Fill | 40 | 0 | 120 |
| Zone 4 - Drainage Zone | 36 | 0 | 120 |
| Original 1964 Dike Fill | 40 | 0 | 120 |
| Cofferdam Fill | 30 | 0 | 120 |
| Ash | 30 | 0 | 85 |
| Residual Soil | 38 | 400 | 120 |
| Partially Weathered Rock | 40 | 1000 | 120 |

Properties for the Dike Zone 1 Core were based on the boring data and laboratory classification tests, as well as the CU triaxial shear test results as interpreted in the p'-q plot in Figure L2.

Properties for the Dike Zone 2 - Rock Shell material were based on review of rock fill dam design guidelines, the visual observation of the rock shell material in the test pits on the upstream side of the dike and visual observation of the rock material face of the downstream slope. The shear strength parameters for the rock fill are the same that were used by National Soil Science in the design for the 1971 expansion. The unit weight could vary from our assumed value depending on the degree the voids between larger rocks are filled with smaller rocks and soil, but the analysis was found to be insensitive to the unit weight of the rock shell material. These properties are consistent with those found in literature of rock fill dams with similar granitic or gneiss type rock.

Properties for the Zone 3 Mixed Fill and Original 1964 Dike Fill were based primarily on the boring and laboratory data obtained by S&ME. The shear strength parameters were derived from our interpretation of the p'-q plot shown in Figure L1. These parameters are considered reasonable based on the other boring and laboratory test data. Borings and laboratory testing performed previously by National Soil Science in the 1964 dike and on the borrow materials were also considered.

Properties for the Zone 4 Drainage material were based on the material as described in the design and construction documents and drawings by Brown and Root and on the samples of this zone that were obtained and inspected in our borings.

Properties for the Cofferdam fill were estimated based on the soil types and method of construction described in the historical documentation, and on the parameters used in the 1971 Expansion design stability analysis by National Soil Science.

Properties for the impounded ash were based on the borings performed by S&ME and performed previously by others (MACTEC 2004) and our experience with similar ash basins.

Properties for the residual soil and partially weathered rock are based on the borings performed by S&ME, borings previously performed by others in the dike area (Ebasco 1962, National Soil Science 1969, F&R 1981), our experience with residual materials in the Asheville area, and on the historic construction documentation regarding embankment area preparation.

## 5.4 Analysis Method

The slopes were modeled using Slide 5.0, a two-dimensional limit equilibrium computer program developed by Rocscience, Inc. The program uses a variety of search routines to locate the minimum factor of safety for a large number of trial failure surfaces. The factor of safety for the circular failure surfaces is calculated using the Bishop Simplified method. Stability analysis was limited to long term stability assuming a constant, fully developed phreatic surface.

## 5.5 Results of Stability Analyses

The results of the stability analysis are summarized in the table below. Additional details are shown on Figures S-1, S-2, S-3, and S-4 from the individual analyses included in Appendix IV of this report. The output figures provide the location and calculated factor of safety for the critical circular failure surfaces. On several of these figures, additional circular failure surfaces and factors of safety are shown for circles involving other parts of the slope that were found to have relatively low factors of safety and could also be considered critical given slight variations in soil properties or boundary conditions.

**Table 3 –Parameters for Stability Analysis**

| Summary of Stability Analyses Results for Downstream Slope For Long-term, effective stress, steady state conditions | | | | |
|---|---|---|---|---|
| **Analysis Section** | **Analysis Scenario** | **Factor of Safety** | **Water Level Assumptions** | **Figure No.** |
| Station 9+00 | Stability of upper, 1971 Addition slope | 1.46 | Current Water levels | S-1 |
| Station 9+00 | Stability of Combined slope of 1964 dike and 1971 Addition. | 1.68 | Current Water levels | S-1 |
| Station 9+00 | Stability of lower, original 1964 dike slope | 1.53 | Current water levels but with water raised in lower 1964 dike slope to account for local high water level or infiltration from 1964 crest | S-2 |
| Station 13+50 | Stability of new 1971 dike section at maximum height, for failure surface involving full slope height | 1.40 | Current Water levels | S-3 |
| Station 13+50 | Stability of new 1971 dike section at maximum height, for failure surface involving lower portion of slope | 1.23 | Current Water levels | S-3 |
| Shorter typical section 1971 Addition | Stability of generic, “typical section” of 1971 Addition that is 55 feet high over natural ground with 1.5:1 slope. | 1.49 | Current water levels, and assumes downstream slope drainage zone is functioning as designed. | S-4 |

# 6.0 CONCLUSIONS

The Station 9+00 section has a computed factor of safety of approximately 1.5, which is the minimum required by NCDENR for long term stability. This cross section is intended to represent the critical case for the portion of the dike consisting of the original 1964 dike under the 1971 addition. Locally elevated water conditions in portions of the original 1964 dike as discussed in this report could lower the factor of safety somewhat below 1.5, but these conditions would generally be temporary and would involve only isolated portions of the slope. In summary, the combined 1964/71 dike section is considered satisfactory from the standpoint of static, long-term steady state conditions.

The Station 13+50 section has factors of safety for the static, long-term, steady state conditions that are below the minimum NCDENR requirement of 1.5. The factor of safety is relatively sensitive to the water levels near the toe of the dam, where the piezometer in Boring B-7 indicates the water is above the drainage zone in this portion of the slope, and there is currently a stilling pool at the slope toe which results in the toe being submerged. Removal of the pool at the toe would allow the water inside the slope to drop to a lower level and would increase the factor of safety slightly, but it would still be substantially below 1.5. The factor of safety of the critical circle passing through the lower portion of the slope was also found to be sensitive to the slope face inclination, which was found by surveying to be slightly steeper than 1.5:1 in the lower portion of the slope above the stilling pond.

An analysis of a shorter “typical section” of the 1971 construction, with the total slope height reduced to 55 feet and the slope inclination to 1.5:1, indicates a factor of safety of about 1.5. This would suggest that any measures required to improve the stability of the slope would be expected to be limited to portions of the dike that are presently inclined at 1.5H:1V or steeper that are above about 50 to 55 feet high. Additional study will be required to determine the extent of any modifications that may be required to the dike to increase the factor of safety to an acceptable minimum.

The stability analyses were based on water levels obtained during the exploration and monitoring period through December 15, 2009. The ash basin was originally designed for a maximum operating pool level that was significantly higher than the existing water levels. The factors of safety would decrease further below 1.5 if the water levels were to rise back to near their design operating level. Measures should be considered to limit the water level inside the ash to a level that is equal to or lower than the current water levels. The water levels inside the ash basin and the dike should be monitored regularly as part of the normal dam safety program at the plant. The data should be reviewed periodically to determine if there are any long term changes in the water levels that might influence the slope stability. As water levels change over time, the stability analysis should be reviewed in light of the water level changes, and the analysis updated as is appropriate to reflect the changed conditions.

# 7.0 LIMITATIONS OF REPORT

This report has been prepared in accordance with generally accepted engineering practice in this local area at this time. The conclusions and recommendations contained herein are based on the applicable standards of the profession at the time this report was prepared. No other warranty, express or implied, is made. The evaluations and recommendations submitted in this report are based, in part, upon the data obtained from the subsurface exploration. The subsurface conditions included are based on the information obtained from widely spaced borings. Variations in the subsurface conditions will occur between the boring locations. Water levels may fluctuate due to weather, climate, construction, plant operations, and other factors.

This stability analysis report is not intended as a comprehensive inspection report or assessment of the dike's safety other than for the downstream slope stability for the conditions explained in this report.

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# APPENDICES

## Appendix I – Drawings (size Arch E1)

Figure 1 – Site Map, Boring Locations, and Topographic Survey
Figure 2 – Site Map with Aerial Photo
Figure 3 – Site Map with Brown and Root Dike Plan
Figure 4 – Dike Cross Sections at Stations 9+00, 11+50, and 13+50

## Appendix II – Field Exploration Data

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Boring Logs
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## Appendix III – Laboratory Test Data

Table L1 – Laboratory Test Summary
Table L2 – P-Q' Data for CU Triaxial Tests
Figure L1 - P-Q' Plot for CU Triaxial Tests – 1971 Mixed Fill and 1964 Dike Fill
Figure L2 - P-Q' Plot for CU Triaxial Tests – Core Material
Laboratory Test Data Sheets

## Appendix IV – Slope Stability Analysis

Figure S-1 - Section 9+00 Stability of Combined 1964/71 Slope and Upper Slope
Figure S-2 - Section 9+00 – Stability of Lower 1964 Slope
Figure S-3 - Section 13+50 – Stability of 1971 Dike Section
Figure S-4 - Stability of 1971 Typical Section - 55-foot height, 1.5:1 Slope.

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- Figure 1 – Site Map, Boring Locations, and Topographic Survey
- Figure 2 – Site Map with Aerial Photo
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| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | Reissued with April 5 2010 Final Report with no changes | |

SITE MAP, BORING LOCATIONS
AND TOPOGRAPHIC SURVEY

1964 ASH POND DAM
ASHEVILLE, NORTH CAROLINA

DRAWN BY: BTR / DSM
CHECKED BY: JCL
DESIGNED BY:
APPROVED BY:
PROJECT NUMBER: 1411-09-084
SCALE: 1" = 60'
DATE: DEC. 2009
DRAWING NUMBER:
FIGURE: 1
OF: 4


SAME
www.smeinc.com
44 BUCK SHOALS ROAD, UNIT C3
PHONE: 828-687-9080


BASE/TOPO DATA:
ED HOLMES & ASSOCIATES LAND SURVEYORS, PA. ASHEVILLE NC
FILE DATED 12/3/2009

GRAPHIC SCALE
0 60 120 120
( IN FEET )

1982 ASH BASIN
( ACTIVE ASH BASIN )
WATER SURFACE ELEVATION= ±2159.1'

OUTLET STRUCTURE (APPROX)

600 MAG NAIL
BENCHMARK
2163.64'

EXISTING WELL #16
GND ELV:2164.8'
TOP ELV:2167.3'
STA: 22+33.0
OFFSET: 34.6 R

ROAD IS BEING DIVIDED 1964 ASH POND FROM 1982 ASH POND

ISSUED NATIONAL F.M.L.C.D.

DISUSED ANTENNA W FENCED ENCLOSURE

GUY POLE

ENGELTARD PVC GND ELEV=2148.5' TYP. 4 PLACES

EXISTING WELL
GND ELV:2147.7'
STA: 20+88.6
OFFSET: 77.0 R

EXISTING WELL
GND ELV:2147.8'
STA: 20+92.4
OFFSET: 71.7 R

GUY WIRE (TYP.)

MATCHLINE

TRANSMISSION LINE STRUCTURE

TRANSMISSION LINE

JUNCTION BOX WITH MANHOLE LID

30' ROF OUTLET AT HEADWALL INV.2134.3'

NOTE: EDGE OF CREST ROAD IS LIMIT OF TOPO

SAFETY BARRIER

GRAVEL ROAD (TYP.)

SOIL ROAD (TYP.)

EXISTING WELL #28
GND ELV:2155.3
STA: 15+31.3
OFFSET: 35.4 L

Temporary Excavation

BORING B-9
(OMITTED)

FLUME FROM ACCIDENT DAM

EXISTING WELL
GND ELV:2069.5
STA: 14+87.3
OFFSET: 203.2 R

INTERSTATE 26

BORING B-8
TOP ELV:2157.7
STA: 13+37.7
OFFSET: 2.0 L

BORING B-7
GND ELV:2153.8
STA: 13+40.7
OFFSET: 12.1 L
TOP ELV:2158.2
STA: 13+40.7
OFFSET: 13.6 L

-DURING DRILLING-
-AFTER BACKFILL-

SPILLWAY INV.2042.2'

SPILLWAY POOL

RISER INV.2041.6'

67" CMP INV.2041.9'

1964 DAM OUTLET

EXISTING WELL #27
GND ELV:2154.0
STA: 14+89.7
OFFSET: 372.3 L

BORING B-11
GND ELV:
TOP ELV:2157.7
STA:13+32.6
OFFSET:193.8 L

Temporary Excavation

13+50 CROSS SECTION

BORING B-5
GND ELV:2151.25
STA: 11+58.8
OFFSET: 7.7 L
TOP ELV:2157.6
STA: 11+58.8
OFFSET: 11.0 L

-DURING DRILLING-
-AFTER BACKFILL-

Temporary Excavation

BORING B-4
TOP ELV:2157.6
STA: 11+69.1
OFFSET: 0.4 R

CONCRETE PAD WITH MONUMENT BOLT STUB

CONCRETE MONUMENT BASE

CONCRETE MONUMENT BASE

CONCRETE MONUMENT BASE

CONCRETE MONUMENT BASE

APPROXIMATE LIMIT OF SPRAYAPPLIED MULCH ON DAM FACE

1964 ASH POND DAM EMBANKMENT

BORING B-1
GND ELV:2123.5
TOP ELV:2126.8
STA: 9+04.5
OFFSET: 58.0 R

EXISTING WELL
GND ELV:2092.7
STA: 8+86.3
OFFSET: 228.4 R

BORING B-1A
GND ELV:2123.6
TOP ELV:2126.8
STA: 9+02.0
OFFSET: 59.3 R

BORING B-2
GND ELV:2124.2'
TOP ELV:2126.7'
STA: 7+09.7
OFFSET: 64.5 R

BORING B-2A
GND ELV:2123.8
STA: 7+04.9
OFFSET: 64.1 R

BORING B-3
GND ELV:2157.5
TOP ELV:2159.5
STA:9+09.9
OFFSET:8.5 L

BORING B-4
TOP ELV:2157.6
STA: 9+04.1
OFFSET: 0.4 L

Temporary Excavation

BORING B-10
GND ELV:2157.9
TOP ELV:2160.9
STA: 9+03.5
OFFSET: 135.1 L

9+00 CROSS SECTION

DUCK POND
WATER SURFACE ELEVATION: ±2145.8'

LAGOON

Process Energy Coalition, Inc. - Asheville Plant

GRAPHIC SCALE

120 0 60 120

( IN FEET )

BASE/TOPO DATA:
ED HOLMES & ASSOCIATES LAND SURVEYORS, PA, ASHEVILLE NC
FILE DATED 12/3/2009
AERIAL IMAGE:
NC ONEMAP, BUNCOMBE COUNTY, DATED 2006

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FIGURE: 2 | OF: 4 | DRAWING NUMBER: | SCALE: 1" = 60' | DATE: DEC. 2009 | PROJECT NUMBER: 1411-09-084 | DESIGNED BY: | DRAWN BY: BTR / DSM | CHECKED BY: JCL | APPROVED BY: |

SITE MAP WITH AERIAL PHOTO

1964 ASH POND DAM
ASHEVILLE, NORTH CAROLINA

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | Reissued with April 5 2010 Final Report with no changes | |

S&ME
WWW.SMEINC.COM
44 BUCK SHOALS ROAD, UNIT C3
PHONE: 828-687-9080

GRAPHIC SCALE

120 0 60 120

( IN FEET )

BASE/TOPO DATA:
ED HOLMES & ASSOCIATES LAND SURVEYORS, PA, ASHEVILLE NC
FILE DATED 12/3/2009
TOPO BASE:
BROWN & ROOT INC., ENGINEERS AND CONSTRUCTORS, HOUSTON TX
B&R DRAWING NO. G-221-B
FILE DATED 12-30-1969, AS-BUILT 5-15-1972

| | | | | | |
|---|---|---|---|---|---|
| FIGURE: 3 | OF: 4 | DRAWING NUMBER: | SCALE: 1" = 60' | PROJECT NUMBER: 1411-09-084 | DESIGNED BY: |
| DRAWN BY: BTR / DSM | CHECKED BY: JCL | DATE: DEC. 2009 | APPROVED BY: | | |

SITE MAP WITH
BROWN AND ROOT DIKE PLAN

1964 ASH POND DAM
ASHEVILLE, NORTH CAROLINA

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | Reissued with April 5 2010 Final Report with no changes | |

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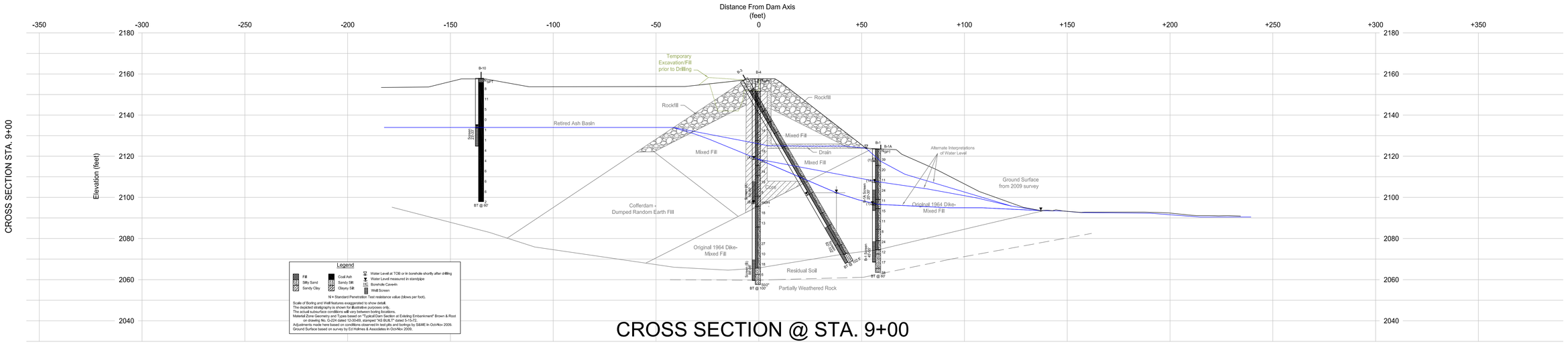
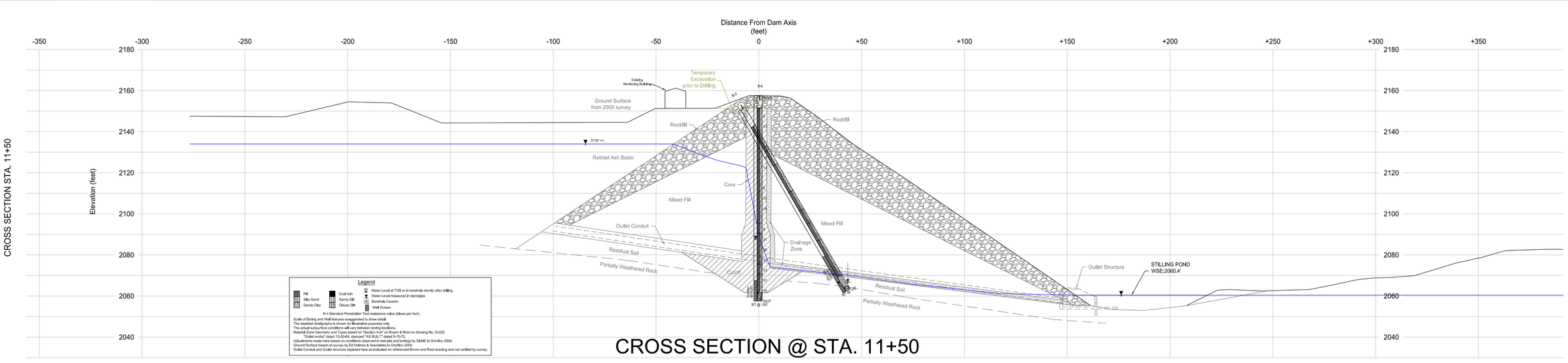
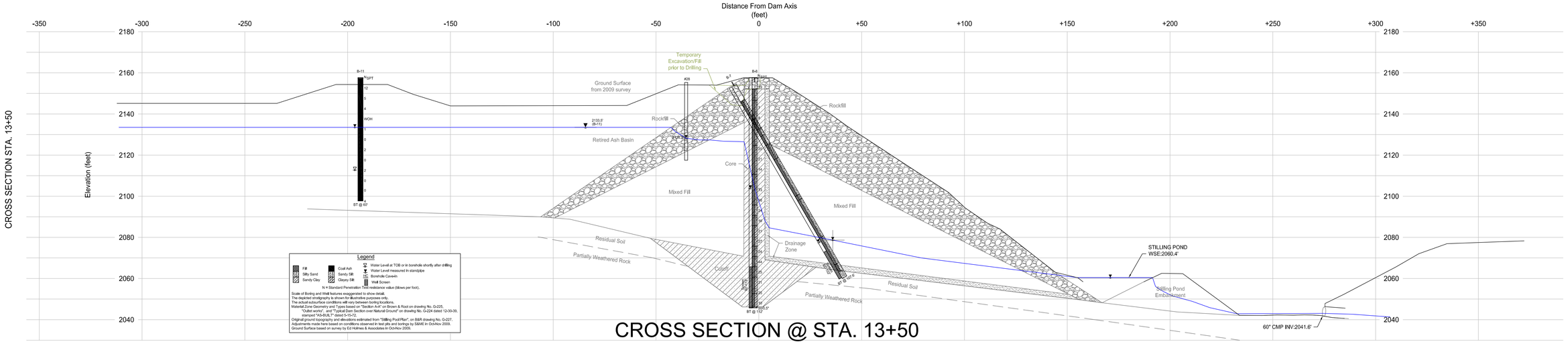



# CROSS SECTION @ STA. 9+00




# CROSS SECTION @ STA. 11+50




# CROSS SECTION @ STA. 13+50

GRAPHIC SCALE

40 0 20 40

( IN FEET )

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PHONE: 828-687-9080

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | Reissued with April 5 2010 Final Report with no changes | |

DIKE CROSS SECTIONS

1964 ASH POND DAM
ASHEVILLE, NORTH CAROLINA

| DRAWN BY: | CHECKED BY: |
|---|---|
| DSM | JCL |
| DESIGNED BY: | APPROVED BY: |
| PROJECT NUMBER: | |
| 1411-09-084 | |
| SCALE: | DATE: |
| 1" = 20' | DEC. 2009 |
| DRAWING NUMBER: | |
| FIGURE: | OF: |
| 4 | 4 |

## Appendix II – Field Exploration Data

- Legend to Soil Classification and Symbols
- Boring Logs
- Table F1 - Summary of Borings and Well Construction
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# LEGEND TO SOIL CLASSIFICATION AND SYMBOLS

## SOIL TYPES

(Shown in Graphic Log)

Fill

Asphalt

Concrete

Topsoil

Gravel

Sand

Silt

Clay

Organic

Silty Sand

Clayey Sand

Sandy Silt

Clayey Silt

Sandy Clay

Silty Clay

Partially Weathered Rock

Cored Rock

## WATER LEVELS

(Shown in Water Level Column)

▽ = Water Level At Termination of Boring
▼ = Water Level Taken After 24 Hours
◄ = Loss of Drilling Water
HC = Hole Cave

## CONSISTENCY OF COHESIVE SOILS

| CONSISTENCY | STD. PENETRATION RESISTANCE BLOWS/FOOT |
|---|---|
| Very Soft | 0 to 2 |
| Soft | 3 to 4 |
| Firm | 5 to 8 |
| Stiff | 9 to 15 |
| Very Stiff | 16 to 30 |
| Hard | 31 to 50 |
| Very Hard | Over 50 |

## RELATIVE DENSITY OF COHESIONLESS SOILS

| RELATIVE DENSITY | STD. PENETRATION RESISTANCE BLOWS/FOOT |
|---|---|
| Very Loose | 0 to 4 |
| Loose | 5 to 10 |
| Medium Dense | 11 to 30 |
| Dense | 31 to 50 |
| Very Dense | Over 50 |

## SAMPLER TYPES

(Shown in Samples Column)

■ Shelby Tube

⊠ Split Spoon

I Rock Core

□ No Recovery

## TERMS

**Standard Penetration Resistance** - The Number of Blows of 140 lb. Hammer Falling 30 in. Required to Drive 1.4 in. I.D. Split Spoon Sampler 1 Foot. As Specified in ASTM D-1586.

**REC** - Total Length of Rock Recovered in the Core Barrel Divided by the Total Length of the Core Run Times 100%.

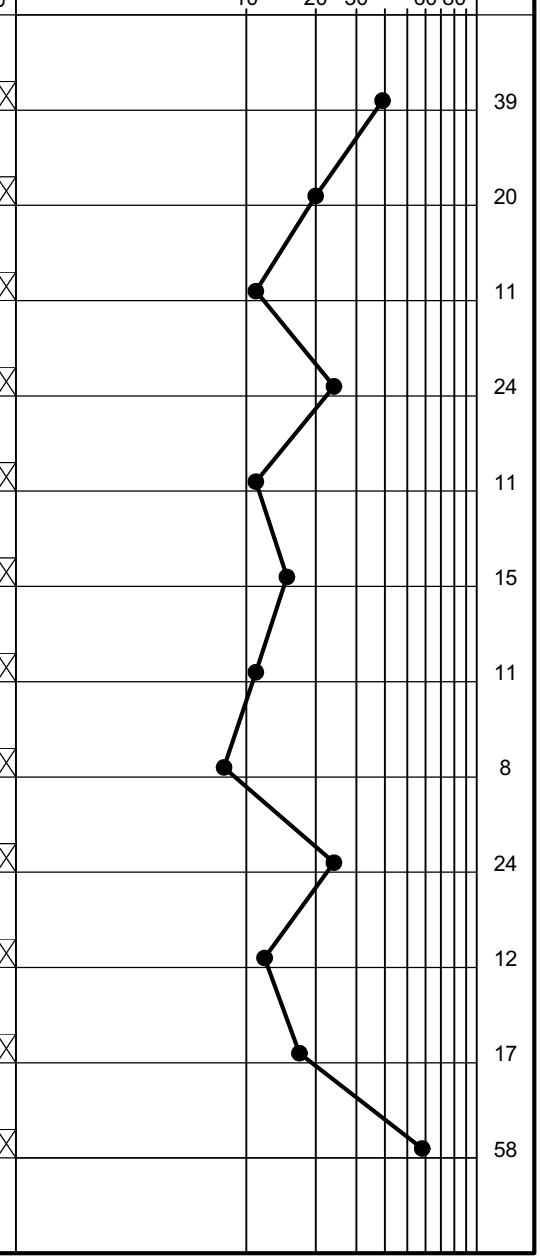
**RQD** - Total Length of Sound Rock Segments Recovered that are Longer Than or Equal to 4" (mechanical breaks excluded) Divided by the Total Length of the Core Run Times 100%.

S&ME
ENGINEERING • TESTING
ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-1 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **10/29/09** | ELEVATION: **2123.5** | NOTES: **Autohammer used; SPT N-values shown uncorrected** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **60.0** | **Observation Well installed - 10' screen @45'-55'** |
| LOGGED BY: **K.Richardson / D.McGough** | WATER LEVEL: **in borehole @12.2' 11/5**<br>**in well @26.9' 11/24** | |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** | |

| DEPTH (feet) | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | N VALUE |
|---|---|---|---|---|---|
| 0–8 | **FILL:** [original 1964 dike] Dense, brown, red brown, moist to wet, silty **SAND** (SM) with rock fragments | | 2120.0 | 1 | 39 |
| 8–25 | Medium dense, brown, red brown, gray, moist to wet, slightly micaceous, silty **SAND** (SM) with rock fragments<br>rocky layers @ 10.5', 12.5', 16'<br>with wood in 18.5' sample | ▽ | 2115.0 | 2 | 20 |
| | | | 2110.0 | 3 | 11 |
| | | | 2105.0 | 4 | 24 |
| | | | 2100.0 | 5 | 11 |
| 25–30 | Medium dense, red brown, wet, clayey silty **SAND** (SM) and sandy **SILT** (ML) with rock and weathered rock fragments (with pieces of intact saprolite/PWR in samples) | ▼ | 2095.0 | 6 | 15 |
| 30–40 | Medium dense, brown, gray, wet, slightly micaceous, silty **SAND** (SM) with rock fragments (with intact pieces of saprolite in sample) | | 2090.0 | 7 | 11 |
| | | | 2085.0 | 8 | 8 |
| 40–45 | Firm, brown, red brown, wet, sandy lean **CLAY** (CL) and silty **SAND** (SM) | | 2080.0 | 9 | 24 |
| 45–50 | Medium dense, brown, red brown, wet, silty **SAND** (SM) | | 2075.0 | 10 | 12 |
| 50–55 | **RESIDUUM**: Medium dense, gray, brown, wet, micaceous, silty **SAND** (SM) | | | | |
| 55–60 | Medium dense, dark gray, dark brown, wet, micaceous, silty **SAND** (SM) | | 2070.0 | 11 | 17 |
| 60 | Very dense, gray, tan, white, wet, slightly micaceous, silty **SAND** (SM) | | 2065.0 | 12 | 58 |
| | Boring Terminated @ 60 feet | | | | |




BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

***NOTES:***

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3. ***STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.***
4. ***WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.***



S&ME
ENGINEERING • TESTING
ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-1A |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **10/30/09** | ELEVATION: **2123.6** | NOTES: **Boring offset about 3 feet from B-1 for taking shelby tube samples** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **40.0** | **Observation Well installed - 10' screen @20'-30'** |
| LOGGED BY: **K.Richardson / D.McGough** | WATER LEVEL: **in borehole @14.3' 11/13. in well @16.2' 11/24** | **hole cave @ 27' 11/2** |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|
| | | **FILL:** [original 1964 dike] Dark brown, red brown, silty SAND (SM) with rock fragments | | | | | |
| 5 | | | | 2120.0 | | | |
| 10 | | - shelby tube pushed 8.5'-10.5', rec 1.65' | | 2115.0 | | | |
| 15 | | | ▼ | 2110.0 | | | |
| 20 | | - shelby tube pushed 18'-19.8', rec 1.4' | | 2105.0 | | | |
| 25 | | | HC | 2100.0 | | | |
| 30 | | - shelby tube pushed 28'-30', rec 1.2' | | 2095.0 | | | |
| 35 | | | | 2090.0 | | | |
| 40 | | - shelby tube pushed 38'-40', rec 1.43' | | 2085.0 | | | |
| | | Boring Terminated @ 40 feet | | | | | |

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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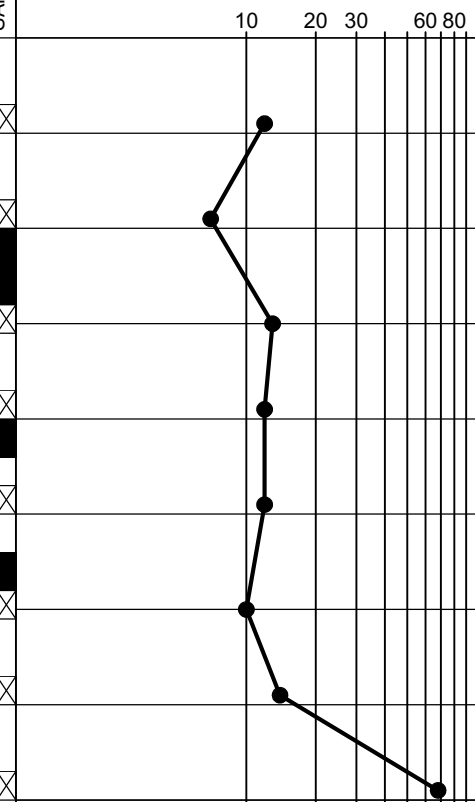
S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-2 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/4/09** | ELEVATION: **2124.2** | NOTES: **Autohammer used; SPT N-values shown uncorrected.** |
| DRILLING METHOD: **3¼" H.S.A.** | BORING DEPTH: **40.0** | **Boring encountered refusal at 22' in original location ("B-2A") and was offset ("B-2").** |
| LOGGED BY: **B.Akers / D.McGough** | WATER LEVEL: **in boreholes @ 6.5' 11/9. in well @26.6' 11/24** | **Observation Well installed in B-2 - 10' screen @29-39. B-2A abandoned.** |
| DRILLER: **L. Morrison** | DRILL RIG: **Diedrich D-50 Track** | **B-2A Hole Cave @ 8.9' 11/9** |

| DEPTH (feet) | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | N VALUE |
|---|---|---|---|---|---|
| 0–8 | **FILL:** [original 1964 dike] Firm to stiff or loose to medium dense, red brown, moist to wet, slightly micaceous, sandy **SILT** (ML) and silty **SAND** (SM) with rock fragments | HC | 2120.0 | 1 | 12 |
| 8–22.5 | Medium dense, brown, red brown, gray, moist to wet, silty **SAND** (SM) with some sandy **SILT** (ML) with rock fragments. (samples @14' and 18.5' wet)<br>- shelby tube at 10'-12' crushed, no rec<br>- shelby tube pushed 12'-14', rec 2.3'<br>- shelby tube pushed 20'-22', rec 1.7'<br><br>Auger Refusal @ 22.5 at first location, "B-2A" - Boring offset 5 feet and continued at "B-2" location | | 2115.0 | 2 | 7 |
| | | | 2110.0 | 3 | 13 |
| | | | 2105.0 | 4 | 12 |
| 22.5–28 | **RESIDUUM:** Stiff , red brown, brown, black, wet, micaceous, sandy **SILT** (ML) and medium dense silty **SAND** (SM) | | 2100.0 | 5 | 12 |
| 28–40 | **RESIDUUM:** Medium dense to very dense, brown, tan, wet, micaceous, silty **SAND** (SM)<br><br>- shelby tube pushed 27'-29', rec 2.3' | | 2095.0 | 6 | 10 |
| | | | 2090.0 | 7 | 14 |
| | | | 2085.0 | 8 | 68 |
| 40 | Boring Terminated @ 40 feet | | | | |

STANDARD PENETRATION TEST DATA (blows/ft)




BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-3 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/12/09** | ELEVATION: **2157.5** | NOTES: **Boring inclined 30 deg from vertical.** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **102.5** | **Split spoon samples obtained by pushing sampler.** |
| LOGGED BY: **S.Low / D. McGough** | WATER LEVEL: **in well @ 63.8' 11/24** | **Observation well installed - 20' screen @82'-102'** |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|---|
| 0–5 | | **FILL** : new fill from test pit excavation and backfill prior to drilling | | 2155.0 | | | | |
| 5–18 | | **FILL** [dam core]: Red brown, brown, gray, moist, sandy **SILT** (ML) and sandy **CLAY** (CL) with rock fragments | | 2150.0 | 1 | | | |
| | | | | 2145.0 | 2 | | | |
| 18–25 | | **FILL** [transition from core to drainage zone to mixed fill]: Red brown, moist, sandy **SILT** (ML) and sandy lean **CLAY** (CL) and rock pieces<br>- with rocky layers from 17' to 22'. too hard to push spoon at 21'.<br>-drilling fluid lost between 21' to 26' (suspect vertical drainage zone) | | 2140.0 | 3 | | | |
| | | | | 2135.0 | 4 | | | |
| 25–30 | | **FILL** [mixed fill zone]: Brown, red brown, gray, moist, silty **SAND** (SM) and clayey **SILT** (ML/MH) | | | | | | |
| 30–38 | | Brown and dark brown to black, moist, sandy **SILT** (ML), with organic odor, with rock fragments<br>-shelby tube pushed 31'-33', rec 1.8' | | 2130.0 | 5 | | | |
| | | | | 2125.0 | 6 | | | |
| 38–55 | | Brown, red brown, gray, moist to wet, slightly micaceous, silty **SAND** (SM), with occasional rocky layers (with intact pieces of saprolite)<br>-hard drilling 43-45.5' | | 2120.0 | 7 | | | |
| | | | | 2115.0 | 8 | | | |
| | | | | | 9 | | | |
| 55–60 | | Red brown, brown, wet, sandy **SILT** (ML) and silty **SAND** (SM) with rock fragments<br>- shelby tube pushed 56'-58', rec 1.25' | | 2110.0 | 10 | | | |
| | | | ▼ | 2105.0 | 11 | | | |

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: **Progress Energy Asheville - 1964 Ash Dike**<br>**Skyland, North Carolina**<br>**S&ME Project No. 1411-09-084** | **BORING LOG B-3** |
|---|---|
| DATE DRILLED: **11/12/09** | ELEVATION: **2157.5** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **102.5** |
| LOGGED BY: **S.Low / D. McGough** | WATER LEVEL: **in well @ 63.8' 11/24** |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** |

NOTES: **Boring inclined 30 deg from vertical.**

**Split spoon samples obtained by pushing sampler.**

**Observation well installed - 20' screen @82'-102'**

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|
| 70 | | Brown, slightly micaceous, wet, silty **SAND** (SM) (with intact pieces of saprolite)<br>-shelby tube pushed 66'-68', rec 1.5' *(continued)* | | 2100.0 | 12 | | |
| 75 | | Orange brown, gray, wet, sandy **SILT** (ML) and sandy lean **CLAY** (CL)<br>- shelby tube pushed 76'-78', rec 2.2' | | 2095.0 | 13 | | |
| 80 | | | | 2090.0 | 14 | | |
| 85 | | Red brown, orange, gray, silty **SAND** (SM)<br>- shelby tube pushed 86'-88', rec 1.3' | | 2085.0 | 15 | | |
| 90 | | - with rocky layers 90-93', hard drilling 90'-93' | | 2080.0 | 16 | | |
| 95 | | Red brown, brown, wet, sandy **SILT** (ML) and silty **SAND** (SM) with rock fragments | | 2075.0 | 17 | | |
| 100 | | **RESIDUUM:** Red brown, brown, dark brown, wet, slightly micaceous, sandy **SILT** (ML) and silty **SAND** (SM) | | 2070.0 | 18 | | |
| | | Boring Terminated @ 102.5 feet | | | 19 | | |

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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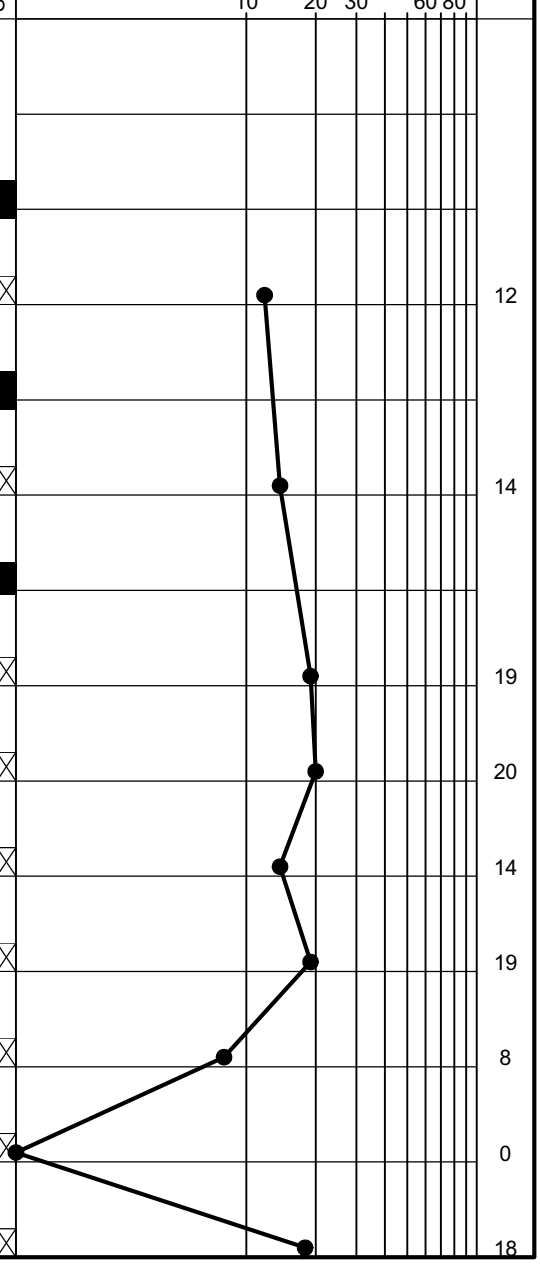
| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-4 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/6/09** | ELEVATION: **2157.6** | NOTES: **Autohammer used; SPT N-values shown uncorrected** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **100.0** | |
| LOGGED BY: **T.Costello / D.McGough** | WATER LEVEL: **in well (A) @ 39.0' 11/24**<br>**in well (B) @ 61.3 11/24** | **2 Observation Wells installed - (A) 10' screen @50-60' and (B) 10' screen @ 88'-98'** |
| DRILLER: **J. Millwood** | DRILL RIG: **Diedrich D-50 Track** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | N VALUE |
|---|---|---|---|---|---|---|---|
| 0–5 | | **FILL** : new fill from test pit excavation and backfill prior to drilling | | 2155.0 | | | |
| 5–30 | | **FILL** [core]: Stiff, brown, dark brown, moist, silty **SAND** (SM) and fine sandy lean **CLAY** (CL) with rock fragments<br>- pushed shelby tube 8.5-10, crushed tube<br>- pushed shelby tube 18.5'-20.5', rec 1.8'<br>- pushed shelby tube 28.5'-30.5', rec 0.8' | | 2150.0<br>2145.0<br>2140.0<br>2135.0<br>2130.0 | 1<br>2<br>3<br>4<br>5 | | 12<br>14 |
| 30–40 | | Very stiff, red brown, moist, slightly micaceous, sandy **SILT** (ML) or sandy lean **CLAY** (CL) with rock fragments | ▼ | 2125.0<br>2120.0 | 6<br>7 | | 19<br>20 |
| 40–45 | | Stiff, red brown, brown, wet, sandy **SILT** (ML) with rock fragments | | 2115.0 | 8 | | 14 |
| 45–55 | | Stiff to very stiff, red brown, wet, sandy lean **CLAY** (CL) and gray, sandy **SILT** (ML) with rock fragments | | 2110.0<br>2105.0 | 9<br>10 | | 19<br>8 |
| 55–60 | | Very soft, red brown, wet, sandy lean **CLAY** (CL) | | 2100.0 | 11 | | 0 |
| 60–65 | | | | 2095.0 | 12 | | 18 |

STANDARD PENETRATION TEST DATA (blows/ft)




BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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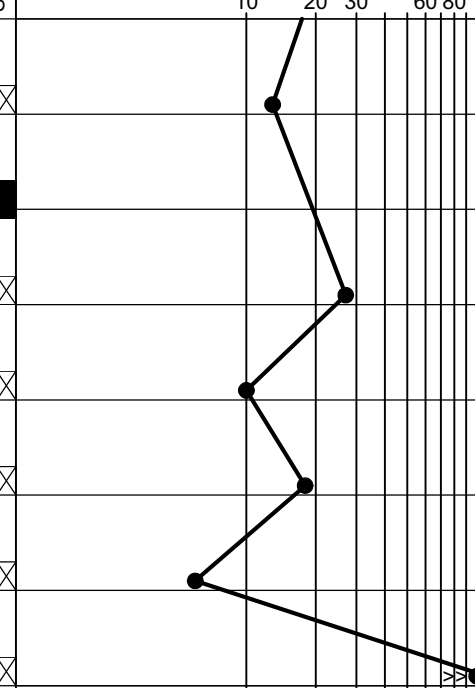
S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-4 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/6/09** | ELEVATION: **2157.6** | NOTES: **Autohammer used; SPT N-values shown uncorrected** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **100.0** | |
| LOGGED BY: **T.Costello / D.McGough** | WATER LEVEL: **in well (A) @ 39.0' 11/24**<br>**in well (B) @ 61.3 11/24** | **2 Observation Wells installed - (A) 10' screen @50-60' and (B) 10' screen @ 88'-98'** |
| DRILLER: **J. Millwood** | DRILL RIG: **Diedrich D-50 Track** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | N VALUE |
|---|---|---|---|---|---|---|---|
| 70 | | **FILL** [possible core or 1964 dike fill]: Stiff to very stiff, red brown, wet, sandy **SILT** (ML), sandy lean **CLAY** (CL), and gray, brown silty **SAND** (SM) *(continued)* | | 2090.0 | 13 | | 13 |
| 75 | | **FILL** [1964 dike fill]: Medium dense, red brown, brown, wet, slightly micaceous, silty **SAND** (SM) with rock fragments | | 2085.0 | 14 | | |
| 80 | | | | 2080.0 | 15 | | 27 |
| 85 | | | | 2075.0 | 16 | | 10 |
| 90 | | | | 2070.0 | 17 | | 18 |
| 95 | | **POSSIBLE ALLUVIUM to RESIDUUM**: Firm, brown, gray, wet, sandy **SILT** (ML) and sandy lean **CLAY** (CL) with organics | | 2065.0 | 18 | | 6 |
| 100 | | **RESIDUUM to PARTIALLY WEATHERED ROCK**: Very dense, brown, gray, wet, slightly micaceous, silty **SAND** (SM) with rock fragments | | 2060.0 | 19 | | 50/ 2" |
| | | Boring Terminated @ 100 ft | | | | | |

STANDARD PENETRATION TEST DATA (blows/ft)




BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-5 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **10/30/09** | ELEVATION: **2151.3** | NOTES: **Boring inclined 30 deg from vertical.** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **102.0** | **Split spoon samples obtained by pushing sampler.** |
| LOGGED BY: **S.Low / D. McGough** | WATER LEVEL: **in well @ 97.6' 11/24** | **Observation well installed - 20' screen @ 82'-102'** |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|---|
| 0–10 | | **FILL** : new fill from test pit excavation and backfill prior to drilling | | 2150.0, 2145.0 | | | | |
| 10–22 | | **FILL** [core]: Brown, red brown, gray, moist, sandy lean **CLAY** (CL), clayey **SAND** (SC), and sandy **SILT** (ML) or sandy elastic **SILT** (MH)<br>-push tube 15.5'-17', rec 0.7'<br>-push tube 20.5-22.5, rec 0.9' | | 2140.0, 2135.0 | 1, 2, 3 | | | |
| 22–32 | | **FILL** [vertical drainage zone]: Brown, fine to coarse **SAND** (SW) | | 2130.0, 2125.0 | 4, 5 | | | |
| 32–47 | | **FILL** [mixed fill]: Brown, red brown, sandy lean **CLAY** (CL), sandy **SILT** (ML), and silty **SAND** (SM)<br>-tube pushed 33-35', rec 2.0'<br>-tube pushed 38-40', rec 1.6'<br>-tube pushed 43-44.8', rec 1.6'<br>with hard, rocky layer 40.5'-41.3' | | 2120.0, 2115.0 | 6, 7, 8, 9, 10, 11 | | | |
| 47–55 | | Brown, orange brown, moist, micaceous, silty **SAND** (SM) and sandy **SILT** (ML) with rock fragments (with intact pieces of saprolite)<br>-tube pushed 48-49.5', rec 1.2'<br>-tube pushed 55.5-56.5, rec 0.9' | | 2110.0, 2105.0 | 12, 13, 14, 15 | | | |
| 55–64 | | Red brown, brown, moist, micaceous, sandy **SILT** (ML)<br>with rocky layer at 64'-64.4' | | 2100.0 | 16 | | | |

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: **Progress Energy Asheville - 1964 Ash Dike**<br>**Skyland, North Carolina**<br>**S&ME Project No. 1411-09-084** | **BORING LOG B-5** |
|---|---|
| DATE DRILLED: **10/30/09** | ELEVATION: **2151.3** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **102.0** |
| LOGGED BY: **S.Low / D. McGough** | WATER LEVEL: **in well @ 97.6' 11/24** |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** |

NOTES: **Boring inclined 30 deg from vertical.**

**Split spoon samples obtained by pushing sampler.**

**Observation well installed - 20' screen @ 82'-102'**

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|
| 70 | | Red brown, brown, moist, sandy **SILT** (ML), sandy lean**CLAY** (CL), and silty **SAND** (SM) with rock fragments<br>-pushed tube 65.5-67.5', rec 2.0' *(continued)* | | 2090.0 | 17<br>18 | | |
| 75 | | Gray, brown, red brown, moist, slightly micaceous, silty **SAND** (SM) and sandy **SILT** (ML) with rock fragments (with intact pieces of saprolite)<br>- hard drilling 74'-80.5'<br>- pushed tube 75.5'-75.9', rec 0.2'<br>- with rocky layers 83-84'<br>- pushed tube 85.5-86.1, no rec | | 2085.0 | 19 | | |
| 80 | | | | 2080.0 | 20 | | |
| 85 | | | | | 21<br>22 | | |
| 90 | | | | 2075.0 | | | |
| 95 | | **FILL to RESIDUUM** [precise transition depth not apparent; sand drain not sampled]: Sampled as brown, wet, silty fine **SAND** (SM) and rock pieces<br>- split spoon at 95.5 feet hit obstruction | ▼ | 2070.0 | 23<br>24 | | |
| 100 | | **RESIDUUM to PARTIALLY WEATHERED ROCK:** sampled as brown, orange, slightly micaceous, silty **SAND** (SM)<br>- pitcher sampler 100.5-102', rec 1.4' | | 2065.0 | 25 | | |
| | | Boring Terminated - Tricone Refusal @ 102 feet | | | | | |

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

***NOTES:***

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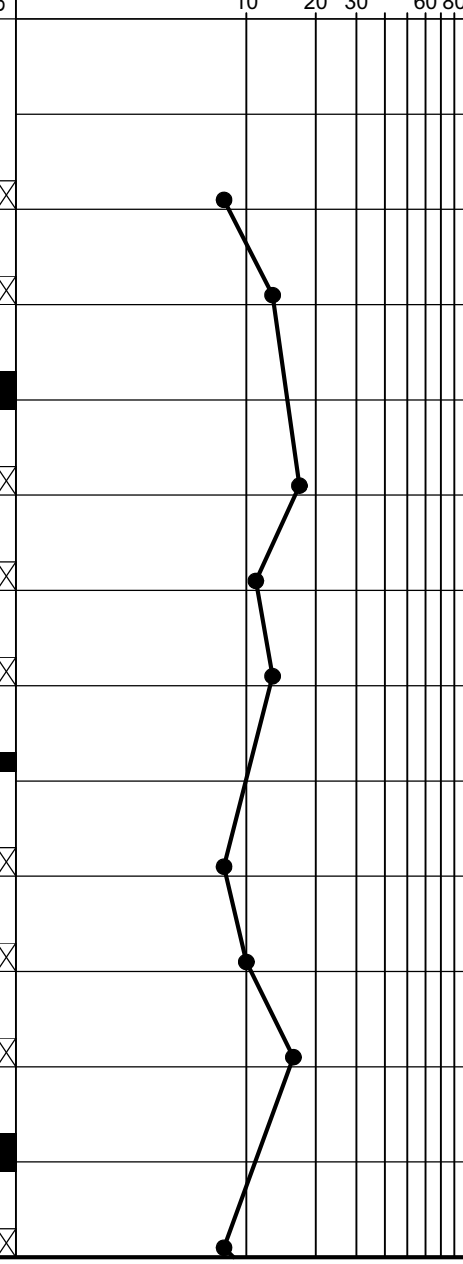
2. ***BORING, SAMPLING AND PENETRATION TEST DATA IN GENERAL ACCORDANCE WITH ASTM D-1586.***
3. ***STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.***
4. ***WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.***

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-6 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/12/09** | ELEVATION: **2157.6** | NOTES: **Autohammer used; SPT N-values shown uncorrected** |
| DRILLING METHOD: **3¼" H.S.A.** | BORING DEPTH: **100.0** | **Observation Well installed - 10' screen @ 90'-100'** |
| LOGGED BY: **T.Costello / D.McGough** | WATER LEVEL: **in well @ 69.8' 11/24** | |
| DRILLER: **J. Millwood** | DRILL RIG: **Diedrich D-50 Track** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | N VALUE |
|---|---|---|---|---|---|---|---|
| | | **FILL** : new fill from test pit excavation and backfill prior to drilling | | 2155.0 | | | |
| 5 | | | | | | | |
| | | **FILL** [core]: firm to very stiff, brown, red brown, moist, sandy lean **CLAY** (CL), sandy **SILT** (ML), and sandy elastic **SILT** (MH) | | 2150.0 | | | |
| 10 | | | | | 1 | | 8 |
| | | | | 2145.0 | | | |
| 15 | | | | | 2 | | 13 |
| | | | | 2140.0 | | | |
| 20 | | - tube pushed 18.5'-20.5' | | | 3 | | |
| | | | | 2135.0 | | | |
| 25 | | | | | 4 | | 17 |
| | | | | 2130.0 | | | |
| 30 | | | | | 5 | | 11 |
| | | | | 2125.0 | | | |
| 35 | | | | | 6 | | 13 |
| | | | | 2120.0 | | | |
| 40 | | - tube pushed 38.5'-39.5' | | | 7 | | |
| | | | | 2115.0 | | | |
| 45 | | | | | 8 | | 8 |
| | | | | 2110.0 | | | |
| 50 | | | | | 9 | | 10 |
| | | | | 2105.0 | | | |
| 55 | | | | | 10 | | 16 |
| | | | | 2100.0 | | | |
| 60 | | - tube pushed 58.5'-60.5' | | | 11 | | |
| | | | | 2095.0 | | | |
| | | | | | 12 | | 8 |

STANDARD PENETRATION TEST DATA (blows/ft)




BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

***NOTES:***

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3. ***STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.***
4. ***WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.***



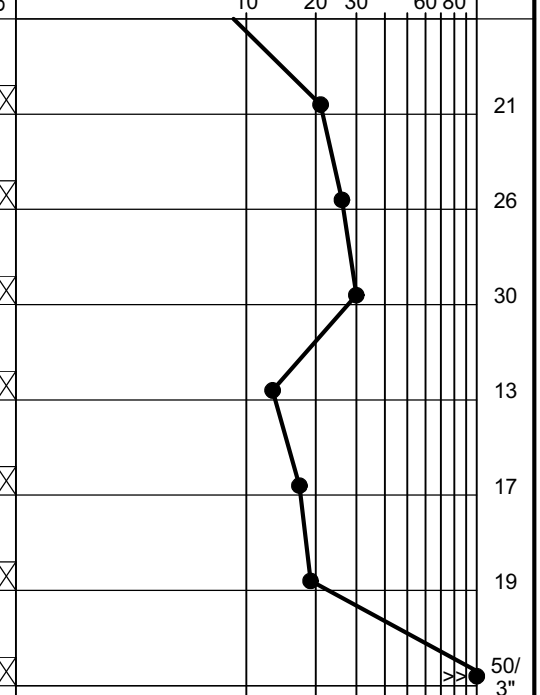
S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-6 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/12/09** | ELEVATION: **2157.6** | NOTES: **Autohammer used; SPT N-values shown uncorrected** |
| DRILLING METHOD: **3¼" H.S.A.** | BORING DEPTH: **100.0** | **Observation Well installed - 10' screen @ 90'-100'** |
| LOGGED BY: **T.Costello / D.McGough** | WATER LEVEL: **in well @ 69.8' 11/24** | |
| DRILLER: **J. Millwood** | DRILL RIG: **Diedrich D-50 Track** | |

| DEPTH (feet) | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | N VALUE |
|---|---|---|---|---|---|---|
| | Firm, red brown, wet, sandy lean **CLAY** (CL) and sandy **SILT** (ML) *(continued)* | | | | | |
| 70 | Very stiff, red brown, moist, sandy **SILT** (ML) and sandy lean **CLAY** (CL) | ▼ | 2090.0 | 13 | | 21 |
| 75 | | | 2085.0 | 14 | | 26 |
| 80 | | | 2080.0 | 15 | | 30 |
| 85 | Stiff, brown, red brown, wet, sandy **SILT** (ML) | | 2075.0 | 16 | | 13 |
| 90 | Very stiff, red brown, moist to wet, sandy lean **CLAY** (CL) and sandy **SILT** (ML) | | 2070.0 | 17 | | 17 |
| 95 | | | 2065.0 | 18 | | 19 |
| 100 | **PARTIALLY WEATHERED ROCK**: sampled as brown, gray, black, wet, micaceous, silty **SAND** (SM) with rock fragments | | 2060.0 | 19 | | 50/ 3" |
| | Boring Terminated @ 100 feet | | | | | |

STANDARD PENETRATION TEST DATA (blows/ft)




BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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3. ***STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.***
4. ***WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.***



S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-7 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/5/09** | ELEVATION: **2153.8** | NOTES: **Boring inclined 30 deg from vertical.** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **107.6** | **Split spoon samples obtained by pushing sampler.** |
| LOGGED BY: **S.Low / D. McGough** | WATER LEVEL: **in well @ 86.7' 11/24** | **Observation well installed - 15' screen @ 92'-107'** |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|---|
| 0–8 | | **FILL** : new fill from test pit excavation and backfill prior to drilling | | 2150.0 | | | | |
| 8–19 | | **FILL** [core]: Red brown, moist, sandy lean **CLAY** (CL) or sandy elastic **SILT** (MH) | | 2145.0 | | | | |
| | | | | 2140.0 | 1 | | | |
| 19–24 | | Dark brown, gray, moist, clayey **SAND** (SC) and sandy **SILT** (ML) with rock fragments<br>- with hard rocky layer 24-24.3' | | 2135.0 | 2 | | | |
| 24–28 | | Red brown, moist, sandy lean **CLAY** (CL) or sandy **SILT** (ML) with rock fragments | | 2130.0 | 3 | | | |
| 28–33 | | **FILL** [drainage zone]: Brown, fine to coarse **SAND** (SW) | | | 4 | | | |
| 33–40 | | **FILL** [mixed fill] : Brown, red brown, sandy **SILT** (ML) or sandy lean **CLAY** (CL) with rock fragments<br>- shelby tube pushed 40.6'-41.5', rec 0.9' | | 2125.0 | 5 | | | |
| 40–61 | | Brown, red brown, moist, slightly micaceous, silty **SAND** (SM) (with pieces of intact saprolite)<br>- with rocky layers at 49.5', 54.5'<br>- shelby tube pushed 45.6-47.6, rec 2.0'<br>- shelby tube pushed 55.6-57.6, rec 2.0' | | 2120.0 | 6 | | | |
| | | | | 2115.0 | 7 | | | |
| | | | | 2110.0 | 8 | | | |
| | | | | 2105.0 | 9 | | | |
| 61–64 | | Dark red brown, brown, wet, sandy **SILT** (ML) and silty **SAND** (SM) with rock fragments | | 2100.0 | 10 | | | |

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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4. ***WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.***



S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-7 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/5/09** | ELEVATION: **2153.8** | NOTES: **Boring inclined 30 deg from vertical.** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **107.6** | **Split spoon samples obtained by pushing sampler.** |
| LOGGED BY: **S.Low / D. McGough** | WATER LEVEL: **in well @ 86.7' 11/24** | **Observation well installed - 15' screen @ 92'-107'** |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. / SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|
| | | Red brown, brown, gray, wet, slightly micaceous, silty **SAND** (SM) and sandy **SILT** (ML) with rock fragments (with intact pieces of saprolite)<br>- with rocky layers at 68'-69', 77'-79', 87'-90'<br>- shelby tube pushed 65.6'-67.6', rec 2.0'<br>- shelby tube pushed 70.6'-72.6', rec 1.5'<br>*(continued)* | | 2095.0 | 11 | | |
| 70 | | | | | 12 | | |
| 75 | | | | 2090.0 | 13 | | |
| 80 | | | | 2085.0 | 14 | | |
| 85 | | Red brown, brown, gray, slightly micaceous, silty **SAND** (SM) with rock fragments<br>-with hard rocky layers<br>- hard drilling | ▼ | 2080.0 | 15 | | |
| 90 | | | | 2075.0 | 16 | | |
| 95 | | | | 2070.0 | 17 | | |
| 100 | | **FILL** [drainage zone]: Brown, fine to coarse **SAND** (SW)<br>- pitcher sampler 100.6'-102.6', rec 1.9' | | 2065.0 | 18 | | |
| 105 | | **RESIDUUM to PARTIALLY WEATHERED ROCK**: sampled as brown, tan, slightly micaceous, silty **SAND** (SM) with rock fragments<br>- pitcher sampler 105.6'-107.6', rec 1.2' | | | 19 | | |
| | | Boring Terminated @ 107.6 feet | | | | | |

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: **Progress Energy Asheville - 1964 Ash Dike**<br>**Skyland, North Carolina**<br>**S&ME Project No. 1411-09-084** | **BORING LOG B-8** |
|---|---|
| DATE DRILLED: **11/14/09** | ELEVATION: **2157.7** |
| DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **112.0** |
| LOGGED BY: **S.Low / D. McGough** | WATER LEVEL: **in well @ 53.9' 11/24** |
| DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV** |

NOTES: **Autohammer used; SPT N-values shown uncorrected**

**Observation Well installed - 20' screen @ 92'-112'**

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|
| 0 | | **FILL** : new fill from test pit excavation and backfill prior to drilling | | 2155.0 | 1 | | 19 |
| 5 | | **FILL** [core]: Red brown, moist, silty **SAND** (SM) | | | | | |
| | | - shelby tube pushed 8-10', rec 1.45' | | 2150.0 | 2 | | |
| 10 | | Firm to stiff, brown, red brown, dark brown, moist, sandy **SILT** (ML), sandy lean **CLAY** (CL), and sandy elastic **SILT** (MH) | | 2145.0 | 3 | | 7 |
| 15 | | | | | | | |
| 20 | | | | 2140.0 | 4 | | 8 |
| 25 | | | | 2135.0 | 5 | | 15 |
| 30 | | -shelby tube pushed 28-30', rec 1.2' | | 2130.0 | 6 | | |
| 35 | | Stiff to very stiff, red brown, brown, gray, moist, sandy **SILT** (ML) with rock fragments | | 2125.0 | 7 | | 20 |
| 40 | | | | 2120.0 | 8 | | 21 |
| 45 | | | | 2115.0 | 9 | | 14 |
| 50 | | Stiff, brown, red brown, moist, sandy **SILT** (ML), sandy elastic **SILT** (MH), and sandy lean **CLAY** (CL) with some rock fragments | ▼ | 2110.0 | 10 | | |
| | | - shelby tube pushed 48-50', rec 1.6' | | 2105.0 | 11 | | 13 |
| 55 | | | | 2100.0 | 12 | | 18 |
| 60 | | | | 2095.0 | 13 | | 24 |

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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PROJECT: **Progress Energy Asheville - 1964 Ash Dike**
**Skyland, North Carolina**
**S&ME Project No. 1411-09-084**

# BORING LOG B-8

DATE DRILLED: **11/14/09** | ELEVATION: **2157.7**

DRILLING METHOD: **Mud Rotary** | BORING DEPTH: **112.0**

LOGGED BY: **S.Low / D. McGough** | WATER LEVEL: **in well @ 53.9' 11/24**

DRILLER: **R. Norwood** | DRILL RIG: **CME 550 ATV**

NOTES: **Autohammer used; SPT N-values shown uncorrected**

**Observation Well installed - 20' screen @ 92'-112'**

| DEPTH (feet) | MATERIAL DESCRIPTION | ELEVATION (feet-NAVD 88) | SAMPLE NO. | N VALUE |
|---|---|---|---|---|
| 70 | Very stiff, red brown, moist to wet, sandy lean **CLAY** (CL) with trace rock fragments *(continued)* | 2090.0 | 14 | 16 |
| | Very stiff, red brown, moist to wet, sandy **SILT** (ML) with trace rock fragments | 2085.0 | 15 | 21 |
| 75 | Very stiff, red brown, moist to wet, sandy lean **CLAY** (CL) | 2080.0 | 16 | 27 |
| 80 | | 2075.0 | 17 | 24 |
| 85 | Very stiff, red brown, wet, sandy elastic **SILT** (MH) or sandy lean **CLAY** (CL) | 2070.0 | 18 | 44 |
| 90 | Medium dense, red brown, orange brown, wet, silty **SAND** (SM) and sandy **SILT** (ML) with rock fragments | 2065.0 | 19 | 25 |
| 95 | Very stiff, brown, red brown, wet, sandy **SILT** (ML) and silty **SAND** (SM) | 2060.0 | 20 | 21 |
| 100 | Very stiff, red brown, wet, sandy lean **CLAY** (CL) and sandy elastic **SILT** (MH) with trace rock fragments | 2055.0 | 21 | 25 |
| 105 | Stiff, dark brown, brown, wet, sandy lean **CLAY** (CL) and sandy **SILT** (ML) with rock fragments, with organic odor | 2050.0 | 22 | 10 |
| 110 | **PARTIALLY WEATHERED ROCK**: No sample recovery (possible boulder or massive rock) (split spoon 50 blows/0.5") | | 23 | 50/.5" |
| | Boring Terminated - Tricone Refusal @ 112 feet | | | |

STANDARD PENETRATION TEST DATA (blows/ft)
10 20 30 60 80

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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4. ***WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.***

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | | BORING LOG B-9 |
|---|---|---|
| DATE DRILLED: | ELEVATION: | NOTES: **Boring Omitted** |
| DRILLING METHOD: | BORING DEPTH: **0.0** | |
| LOGGED BY: | WATER LEVEL: | |
| DRILLER: | DRILL RIG: | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. SAMPLE TYPE | STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80 | N VALUE |
|---|---|---|---|---|---|---|---|

BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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S&ME
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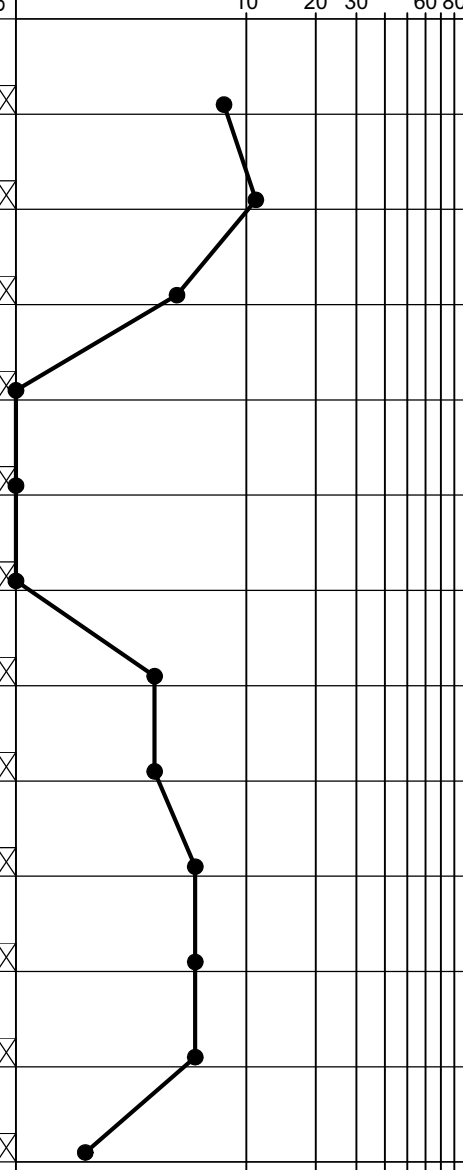
ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-10 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/4/09** | ELEVATION: **2157.9** | NOTES: **Autohammer used; SPT N-values shown uncorrected** |
| DRILLING METHOD: **3¼" H.S.A.** | BORING DEPTH: **60.0** | **Observation Well installed - 10' screen @23'-33'** |
| LOGGED BY: **B.Akers / D.McGough** | WATER LEVEL: **in well @23.9' 11/24** | |
| DRILLER: **L. Morrison** | DRILL RIG: **Diedrich D-50 Track** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | N VALUE |
|---|---|---|---|---|---|---|---|
| | | **FILL** [road embankment]: Brown, red brown, silty **SAND** (SM) and sandy **SILT** (ML) | | | | | |
| 5 | | **COAL ASH**: Loose to medium dense or firm to stiff, gray to black, moist, intermixed layers of fine, medium, and coarse-grained ash. | | 2155.0 | 1 | | 8 |
| 10 | | | | 2150.0 | 2 | | 11 |
| 15 | | | | 2145.0 | 3 | | 5 |
| 20 | | Very loose or very soft, gray to black, wet, intermixed layers of fine, medium, and coarse-grained ash. | | 2140.0 | 4 | | 0 |
| 25 | | | ▼ | 2135.0 | 5 | | 1 |
| 30 | | | | 2130.0 | 6 | | 1 |
| 35 | | Very loose to loose or very soft to firm, gray to black, wet, intermixed layers of fine, medium, and coarse-grained ash. | | 2125.0 | 7 | | 4 |
| 40 | | | | 2120.0 | 8 | | 4 |
| 45 | | | | 2115.0 | 9 | | 6 |
| 50 | | | | 2110.0 | 10 | | 6 |
| 55 | | | | 2105.0 | 11 | | 6 |
| 60 | | | | 2100.0 | 12 | | 2 |
| | | Boring Terminated @ 60 feet | | | | | |

STANDARD PENETRATION TEST DATA (blows/ft)




BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

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4. ***WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.***



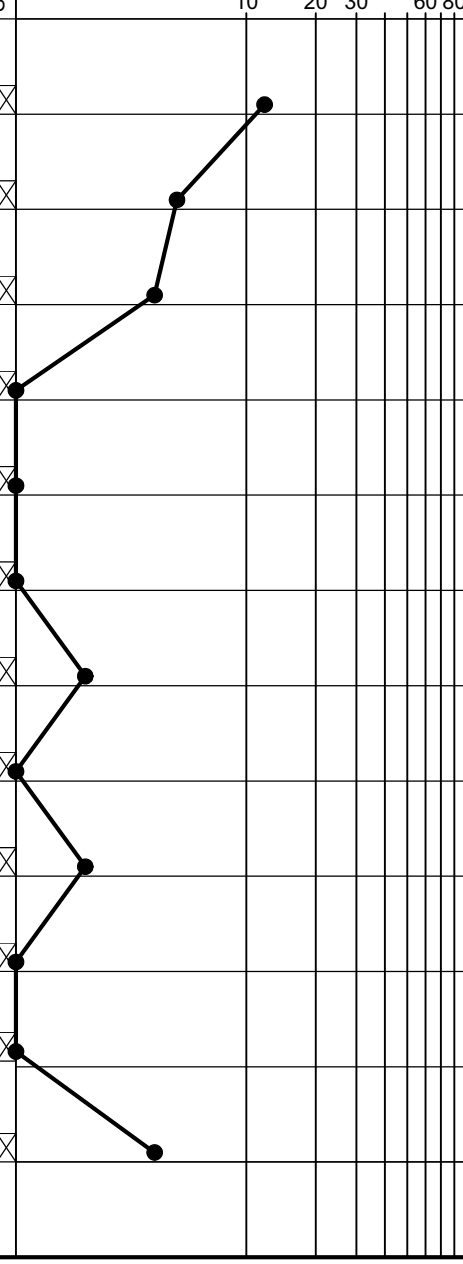
S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

| PROJECT: Progress Energy Asheville - 1964 Ash Dike<br>Skyland, North Carolina<br>S&ME Project No. 1411-09-084 | BORING LOG B-11 |
|---|---|

| | | |
|---|---|---|
| DATE DRILLED: **11/13/09** | ELEVATION: **2157.7** | NOTES: **Autohammer used; SPT N-values shown uncorrected** |
| DRILLING METHOD: **3¼" H.S.A.** | BORING DEPTH: **60.0** | **Observation Well installed - 10' screen @45'-55'** |
| LOGGED BY: **T.Costello / D.McGough** | WATER LEVEL: **in well @ 24.2' 11/24** | |
| DRILLER: **J. Millwood** | DRILL RIG: **Diedrich D-50 Track** | |

| DEPTH (feet) | GRAPHIC LOG | MATERIAL DESCRIPTION | WATER LEVEL | ELEVATION (feet-NAVD 88) | SAMPLE NO. | SAMPLE TYPE | N VALUE |
|---|---|---|---|---|---|---|---|
| | | Aggregate Base Course [road surface] (6 inches) | | | | | |
| 5 | | **COAL ASH**: Medium dense or stiff, gray to black, moist, intermixed layers of fine, medium, and coarse-grained ash. | | 2155.0 | 1 | | 12 |
| 10 | | Loose or soft to firm, gray to black, moist, intermixed layers of fine, medium, and coarse-grained ash. | | 2150.0 | 2 | | 5 |
| 15 | | | | 2145.0 | 3 | | 4 |
| 20 | | Very loose or very soft, gray to black, wet, intermixed layers of fine, medium, and coarse-grained ash. | | 2140.0 | 4 | | 0 |
| 25 | | | ▼ | 2135.0 | 5 | | 1 |
| 30 | | | | 2130.0 | 6 | | 0 |
| 35 | | | | 2125.0 | 7 | | 2 |
| 40 | | | | 2120.0 | 8 | | 0 |
| 45 | | | ▽ | 2115.0 | 9 | | 2 |
| 50 | | | | 2110.0 | 10 | | 0 |
| 55 | | | | 2105.0 | 11 | | 0 |
| 60 | | | | 2100.0 | 12 | | 4 |
| | | Boring Terminated @ 60 feet | | | | | |

STANDARD PENETRATION TEST DATA (blows/ft)




BORING LOG 1109084.GPJ S&ME.GDT 12/17/09

***NOTES:***

1. ***THIS LOG IS ONLY A PORTION OF A REPORT PREPARED FOR THE NAMED PROJECT AND MUST ONLY BE USED TOGETHER WITH THAT REPORT.***
2. ***BORING, SAMPLING AND PENETRATION TEST DATA IN GENERAL ACCORDANCE WITH ASTM D-1586.***
3. ***STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.***
4. ***WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.***



S&ME ENGINEERING • TESTING ENVIRONMENTAL SERVICES

Table F1 - Summary of Borings/Peizometers/Observation Well Installation

| Boring No./ Well I.D. | dates of well installation | | | drilling angle (° from vert) | boring depth (ft) | drilling method | screen length (ft) | screen depth | | TOB boring surface elev. (ft) | finished ground surface elev. (ft) | finished top of outer well casing elev. (ft) | stickup finshed well | screen elev. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | drilling completed | screen and riser installed | well flushed | | | | | top (ft) | bottom (ft) | | | | | top (ft) | bottom (ft) |
| **B-1** | 10/29/09 | 10/29/09 | 10/29/09 | 0 | 60 | mud rotary | 10 | 45 | 55 | 2123.5 | 2123.5 | 2126.8 | 3.3 | 2078.5 | 2068.5 |
| **B-1A** | 10/30/09 | 11/16/09 | 11/16/09 | 0 | 40 | mud rotary | 10 | 20 | 30 | 2123.6 | 2123.6 | 2126.8 | 3.2 | 2103.6 | 2093.6 |
| **B-2** | 11/4/09 | 11/4/09 | na | 0 | 40 | H.S.A. | 10 | 29 | 39 | 2124.2 | 2124.2 | 2126.7 | 2.5 | 2095.2 | 2085.2 |
| **B-3** | 11/13/09 | 11/13/09 | 11/16/09 | 30 | 102.5 | mud rotary | 20 | 82 | 102 | 2157.5 | 2157.5 | 2159.5 | 2.0 | 2086.5 | 2069.2 |
| **B-4 (A)** | 11/6/09 | 11/6/09 | 11/6/09 | 0 | 100 | mud rotary | 10 | 50 | 60 | 2157.6 | 2157.6 | 2157.6 | 0.0 | 2107.6 | 2097.6 |
| **B-4 (B)** | 11/6/09 | 11/6/09 | 11/6/09 | 0 | 100 | mud rotary | 10 | 88 | 98 | 2157.6 | 2157.6 | 2157.6 | 0.0 | 2069.6 | 2059.6 |
| **B-5** | 11/4/09 | 11/4/09 | 11/16/09 | 30 | 102 | mud rotary | 20 | 82 | 102 | 2151.25 | 2155.3 | 2157.6 | 2.3 | 2080.2 | 2062.9 |
| **B-6** | 11/12/09 | 11/12/09 | na | 0 | 100 | H.S.A. | 10 | 90 | 100 | 2157.6 | 2157.6 | 2157.6 | 0.0 | 2067.6 | 2057.6 |
| **B-7** | 11/6/09 | 11/6/09 | 11/16/09 | 30 | 107.6 | mud rotary | 15 | 92 | 107 | 2153.8 | 2155.9 | 2158.2 | 2.3 | 2074.1 | 2061.1 |
| **B-8** | 11/14/09 | 11/14/09 | 11/14/09 | 0 | 112 | mud rotary | 20 | 92 | 112 | 2157.7 | 2157.7 | 2157.7 | 0.0 | 2065.7 | 2045.7 |
| **B-10** | 11/4/09 | 11/4/09 | na | 0 | 60 | H.S.A. | 10 | 25 | 35 | 2157.9 | 2157.9 | 2160.9 | 3.0 | 2132.9 | 2122.9 |
| **B-11** | 11/13/09 | 11/13/09 | na | 0 | 60 | H.S.A. | 10 | 45 | 55 | 2157.7 | 2157.7 | 2157.7 | 0.0 | 2112.7 | 2102.7 |
| **well #27** | | | | | | | | | | | 2154.0 | 2157.0 | 3.0 | | |
| **well #28** | | | | | | | | | | | 2155.3 | 2158.3 | 3.0 | | |

Table F2 - Summary of Water Levels in Open Boreholes

| Boring No./ Well I.D. | depth to water in open borehole (ft) | | | | |
|---|---|---|---|---|---|
| | 11/2/09 | 11/3/09 | 11/5/09 | 11/9/09 | 11/13/09 |
| | from ground | from ground | from ground | from ground | from ground |
| B-1 | | | 12.5 | 12.8 | 5 |
| B-1A | 16.5 | 16.3 | 16.5 | 17 | 14.3 |
| B-2 | | | 6 | 6.5 | 3.7 |
| B-3 | | | | | |
| B-4 (A) | | | | | |
| B-4 (B) | | | | | |
| B-5 | | | | | |
| B-6 | | | | | |
| B-7 | | | | | |
| B-8 | | | | | |
| B-10 | | | | | |
| B-11 | | | | | |
| | | | | | |
| | | | | | |

Table F3 - Summary of Water Levels in Standpipes

| Boring No./ Well I.D. | depth to water in standpipe (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11/2/09 | 11/3/09 | 11/5/09 | 11/6/09 | 11/9/09 | 11/11/09 | 11/13/09 | 11/23/09 | 11/24/2009 | | | 12/14/2009 | | | |
| | from ground | from ground | from ground | from ground | from ground | from ground | from ground | from ground | from top casing | from ground | elevation | from top casing | from ground | elevation | Δ elev. from last |
| **B-1** | 45.5 | 43 | 43 | | 27.4 | | 26.5 | | 30.2 | 26.9 | 2096.6 | 29.9 | 26.6 | 2096.9 | 0.3 |
| **B-1A** | | | | | | | | | 19.4 | 16.2 | 2107.4 | 18.7 | 15.5 | 2108.1 | 0.7 |
| **B-2** | | | 26.5 | | 26.7 | | 25.8 | | 29.1 | 26.6 | 2097.6 | 28.7 | 26.2 | 2098.0 | 0.4 |
| **B-3** | | | | | | | | | 65.8 | 63.8 | 2102.5 | 65.3 | 63.3 | 2102.9 | 0.5 |
| **B-4 (A)** | | | | | 39.9 | 40.4 | 39 | 39.35 | 39 | 39.0 | 2118.6 | 38.4 | 38.4 | 2119.2 | 0.6 |
| **B-4 (B)** | | | | | 51.3 | 61.3 | 61.1 | 61.3 | 61.25 | 61.3 | 2096.4 | 61 | 61.0 | 2096.6 | 0.3 |
| **B-5** | | | | 87.6 | 88.3(mud, no water) | | | | 99.9 | 97.6 | 2071.1 | 99.6 | 97.3 | 2071.3 | 0.3 |
| **B-6** | | | | | | | | 69.65 | 69.8 | 69.8 | 2087.8 | 69.1 | 69.1 | 2088.5 | 0.7 |
| **B-7** | | | | | ~41 (finished <4hrs) | | | | 89 | 86.7 | 2081.1 | 89 | 86.7 | 2081.1 | 0.0 |
| **B-8** | | | | | | | | 54.3 | 53.9 | 53.9 | 2103.8 | 54.2 | 54.2 | 2103.5 | -0.3 |
| **B-10** | | | | 24.8 | 24.8 | | 24.2 | | 26.9 | 23.9 | 2134.0 | 26.2 | 23.2 | 2134.7 | 0.7 |
| **B-11** | | | | | | | | 24.6 | 24.2 | 24.2 | 2133.5 | 23.45 | 23.5 | 2134.3 | 0.8 |
| **well #27** | | | | | 20.8 | | | | 23 | 20.0 | 2134.0 | 22 | 19.0 | 2135.0 | 1.0 |
| **well #28** | | | | | 28.0 | | | | 30.1 | 27.1 | 2128.2 | 29.2 | 26.2 | 2129.1 | 0.9 |

Table F4 - Summary of Well Bottom Measurements

| Boring No./ Well I.D. | measured bottom of well (ft) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 11/9/09 | 11/23/09 | 11/24/09 | | | 12/14/09 | | | |
| | from ground | from ground | from top casing | from ground | elevation | from top casing | from ground | elevation | Δ elev. from last |
| **B-1** | 54.2 | | 57.7 | 54.4 | 2069.1 | 57.6 | 54.3 | 2069.2 | 0.1 |
| **B-1A** | | | 30.6 | 27.4 | 2096.2 | 30.6 | 27.4 | 2096.2 | 0.0 |
| **B-2** | | | 41.8 | 39.3 | 2084.9 | 41.8 | 39.3 | 2084.9 | 0.0 |
| **B-3** | | | >100 | >98 | | >100 | >98 | | |
| **B-4 (A)** | | 60.05 | 60.1 | 60.1 | 2105.6 | 60.1 | 60.1 | 2097.5 | 0.0 |
| **B-4 (B)** | | 97.9 | 97.9 | 97.9 | 2059.7 | 97.8 | 97.8 | 2059.8 | 0.1 |
| **B-5** | | | >100 | >98 | | >100 | >98 | | |
| **B-6** | | 99.1 | 99.1 | 99.1 | 2058.5 | 99.1 | 99.1 | 2058.5 | 0.0 |
| **B-7** | | | >100 | >98 | | >100 | >98 | | |
| **B-8** | | >100 | >100 | >100 | | >100 | >100 | | |
| **B-10** | | | 31.3 | 28.3 | 2129.6 | 31.2 | 28.2 | 2129.7 | 0.1 |
| **B-11** | | 54.1 | 53.5 | 53.5 | 2104.2 | 53.5 | 53.5 | 2104.2 | 0.0 |
| **well #27** | | | 59.8 | 56.8 | 2097.2 | - | - | | |
| **well #28** | | | 40.8 | 37.8 | 2117.5 | - | - | | |

# Table F5 – Surveyed Boring Locations

| TABLE OF BORINGS | | | | | |
|---|---|---|---|---|---|
| BORING | NORTHING | EASTING | GROUND ELEV. | TOP ELEV. | TYPE |
| 1 | 644207.5 | 943620.8 | 2123.5 | 2126.8 | VERTICAL WITH EXTENSION |
| 1A | 644209.4 | 943618.7 | 2123.6 | 2126.8 | VERTICAL WITH EXTENSION |
| 2 | 644385.0 | 943540.2 | 2124.2 | 2126.7 | VERTICAL WITH EXTENSION |
| 2A | 644389.6 | 943538.8 | 2123.8 | N/A | GROUTED, NO CASING |
| 3 | 644227.2 | 943682.5 | 2157.5 | 2159.5 | INCLINED WITH EXTENSION |
| 4 | 644230.2 | 943674.7 | N/A | 2157.6 | VERTICAL FLUSH |
| 5 | 643999.0 | 943782.1 | 2155.3 | 2157.6 | INCLINED WITH EXTENSION |
| 5–EXCAVATED | 643997.7 | 943779.0 | 2151.25 | N/A | (DRILL RIG IN SITU) |
| 6 | 643985.2 | 943775.4 | N/A | 2157.6 | VERTICAL FLUSH |
| 7 | 643832.0 | 943854.1 | 2155.9 | 2158.2 | INCLINED WITH EXTENSION |
| 7–EXCAVATED | 643831.4 | 943852.7 | 2153.8 | N/A | (DRILL RIG IN SITU) |
| 8 | 643830.4 | 943842.2 | N/A | 2157.7 | VERTICAL FLUSH |
| 9 | N/A | N/A | 2155.0 | N/A | OMITTED |
| 10 | 644282.4 | 943798.8 | 2157.9 | 2160.9 | VERTICAL WITH EXTENSION |
| 11 | 643908.5 | 944017.4 | N/A | 2157.7 | VERTICAL FLUSH |

Northing and Easting Coordinates on NC Grid, NAD83
Elevation Datum: NAVD88

Survey data from Ed Holmes & Associates Land Surveyors, PA.

Table is an excerpt from electronic file “1964 Ash Pond Dam Plan View NCGrid NAD83 to SME 20091120.dwg” provided to S&ME by Ed Holmes & Associates.

## Appendix III – Laboratory Test Data

- Table L1 – Laboratory Test Summary
- Table L2 – P-Q' Data for CU Triaxial Tests
- Figure L1 - P-Q' Plot for CU Triaxial Tests – 1971 Mixed Fill and 1964 Dike Fill
- Figure L2 - P-Q' Plot for CU Triaxial Tests – Core Material
- Laboratory Test Data Sheets
    - Grain Size and Atterberg Limits
    - CU Triaxial Tests

## Table L1 - Summary of Laboratory Test Data

1964/71 Ash Dike Stability Analysis
Progress Energy Asheville Plant
S&ME Project No. 1411-09-084

| | Boring Number | Sample Depth (feet) | Lab Sample No | Lab Specimen # | Sample Description | U.S.C.S. Group Symbol | Natural Moisture % | Dry Unit Weight (pcf) | Degree of Saturation % | void ratio e | moist unit weight (pcf) | Specific Gravity | Grain Size Analysis | | | | Atterberg Limits | | CU Triaxial Shear | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | at failure | | test consol. & cell pres. | estimated insitu |
| | | | | | | | | | | | | | gravel % | sand % | silt % | clay % | LL % | PI % | P' (psi) | Q (psi) | $\sigma_3$ (psi) | $\sigma'_v$ (psi) |
| 1964 Dike Fill | B-1A | 8.5-10.5 | ST-1 | 1 | Brown clayey SAND | SC | 22.3 | 101.5 | 88.9 | 0.69 | 124.1 | 2.751 | 4.0 | 61.9 | 17.8 | 16.2 | 34 | 11 | 7.4 | 7.1 | 3.8 | 8.0 |
| | B-2 | 12-14 | ST-1 | 2 | Brown silty SAND | SM | 26.5 | 96.7 | 94.1 | 0.78 | 122.3 | 2.751 | 2.5 | 59.1 | 20.6 | 17.8 | 32 | 6 | 14.6 | 11.1 | 7.8 | 11.0 |
| | \| | \| | \| | 3 | \| | \| | 24.6 | 100.1 | 94.7 | 0.71 | 124.7 | \| | \| | \| | \| | \| | \| | \| | 17.9 | 13.3 | 15.8 | 11.0 |
| | B-2 | 20-22 | ST-2 | 1 | Brown silty SAND | SM | 24.8 | 95.4 | 88.3 | 0.75 | 119.0 | 2.674 | 3.7 | 61.4 | 19.9 | 15.0 | 37 | 9 | 18.7 | 13.0 | 15.0 | 18.0 |
| | \| | \| | \| | 2 | \| | \| | 26.3 | 99.2 | 100.0 | 0.68 | 125.3 | \| | \| | \| | \| | \| | \| | \| | 28.9 | 18.5 | 25.2 | 18.0 |
| | \| | \| | \| | 3 | \| | \| | 25.5 | 98.0 | 97.3 | 0.70 | 123.1 | \| | \| | \| | \| | \| | \| | \| | 45.1 | 27.8 | 40.1 | 18.0 |
| 1971 Dike Zone 3 - Mixed Fill | B-5 | 65.5-67.5 | ST-1 | 1 | Red brown sandy SILT | ML | 29.6 | 90.4 | 92.8 | 0.86 | 117.2 | 2.697 | 3.3 | 41.4 | 27.8 | 27.5 | 49 | 16 | 11.1 | 9.0 | 10.0 | 48.0 |
| | \| | \| | \| | 2 | \| | \| | 31.1 | 90.0 | 96.2 | 0.87 | 117.9 | \| | \| | \| | \| | \| | \| | \| | 32.6 | 21.1 | 25.1 | 48.0 |
| | \| | \| | \| | 3 | \| | \| | 29.9 | 91.6 | 96.3 | 0.84 | 119.0 | \| | \| | \| | \| | \| | \| | \| | 39.2 | 24.6 | 40.2 | 48.0 |
| | B-7 | 45.6-47.6 | ST-1 | 1 | Brown silty SAND | SM | 18.0 | 99.5 | 70.5 | 0.69 | 117.5 | 2.695 | 5.1 | 63.3 | 21.6 | 10.0 | 36 | 7 | 11.9 | 10.4 | 5.1 | 34.0 |
| | \| | \| | \| | 2 | \| | \| | 20.5 | 96.2 | 73.9 | 0.75 | 116.0 | \| | \| | \| | \| | \| | \| | \| | 21.0 | 16.1 | 10.3 | 34.0 |
| | \| | \| | \| | 3 | \| | \| | 22.1 | 98.3 | 83.8 | 0.71 | 120.0 | \| | \| | \| | \| | \| | \| | \| | 25.3 | 17.7 | 15.0 | 34.0 |
| | B-7 | 55.6-57.6 | ST-2 | 1 | Tan brown micaceous silty SAND | SM | 21.3 | 104.8 | 97.9 | 0.58 | 127.2 | 2.650 | 6.7 | 70.3 | 18.2 | 4.8 | 27 | 2 | 23.0 | 15.7 | 15.0 | 39.0 |
| | \| | \| | \| | 2 | \| | \| | 21.6 | 101.3 | 90.4 | 0.63 | 123.2 | \| | \| | \| | \| | \| | \| | \| | 39.8 | 26.0 | 25.1 | 39.0 |
| | \| | \| | \| | 3 | \| | \| | 21.4 | 100.8 | 88.7 | 0.64 | 122.4 | \| | \| | \| | \| | \| | \| | \| | 51.2 | 32.9 | 35.1 | 39.0 |
| | B-7 | 65.6-67.6 | ST-3 | 1 | Red brown sandy CLAY | CL | 20.4 | 106.8 | 91.5 | 0.62 | 128.6 | 2.771 | 2.9 | 43.6 | 53.4 | | 41 | 15 | 56.4 | 37.8 | 50.1 | 43.0 |
| | \| | \| | \| | 2 | \| | \| | 21.0 | 104.6 | 88.9 | 0.65 | 126.5 | \| | \| | \| | \| | \| | \| | \| | 79.7 | 51.8 | 70.1 | 43.0 |
| 1971 Dike Core | B-4 | 18.5-20 | ST-1 | 1 | Brown sandy CLAY | CL | 15.6 | 114.9 | 88.1 | 0.48 | 132.8 | 2.729 | 2.4 | 41.3 | 20.8 | 35.5 | 39 | 20 | 22.1 | 21.2 | 4.8 | 16.0 |
| | \| | \| | \| | 2 | \| | \| | 15.4 | 116.5 | 90.7 | 0.46 | 134.4 | \| | \| | \| | \| | \| | \| | \| | 38.0 | 30.9 | 25.1 | 16.0 |
| | \| | \| | \| | 3 | \| | \| | 14.6 | 116.4 | 86.4 | 0.46 | 133.5 | \| | \| | \| | \| | \| | \| | \| | 47.7 | 36.8 | 40.4 | 16.0 |
| | B-4 | 28.5-30.2 | ST-2 | 4 | Red brown sandy CLAY | CL | 20.9 | 106.1 | 91.7 | 0.63 | 128.2 | 2.771 | 4.0 | 32.1 | 22.7 | 41.3 | 49 | 22 | 64.4 | 44.4 | 60.2 | 24.0 |
| | B-6 / B-8 composite | | | | Red brown sandy CLAY | CL | - | - | - | - | - | - | 5.8 | 40.2 | 19.0 | 35.0 | 43 | 21 | - | - | - | - |

Notes

USCS – Unified Soil Classification System

LL - Liquid Limit, PI - Plasticity Index, "NP" indicates non-plastic

"-" indicates test not performed

Refer to individual laboratory test data sheets for details

% clay based on hydrometer and includes particles smaller than 0.005 mm

$P' = (\sigma'_{1f}+\sigma'_{3f})/2$ $Q = (\sigma'_{1f}-\sigma'_{3f})/2$

$\sigma_1'_f$ - major principal effective stress at chosen failure point

$\sigma_3'_f$ - minor principal effectice stress at chosen failure point

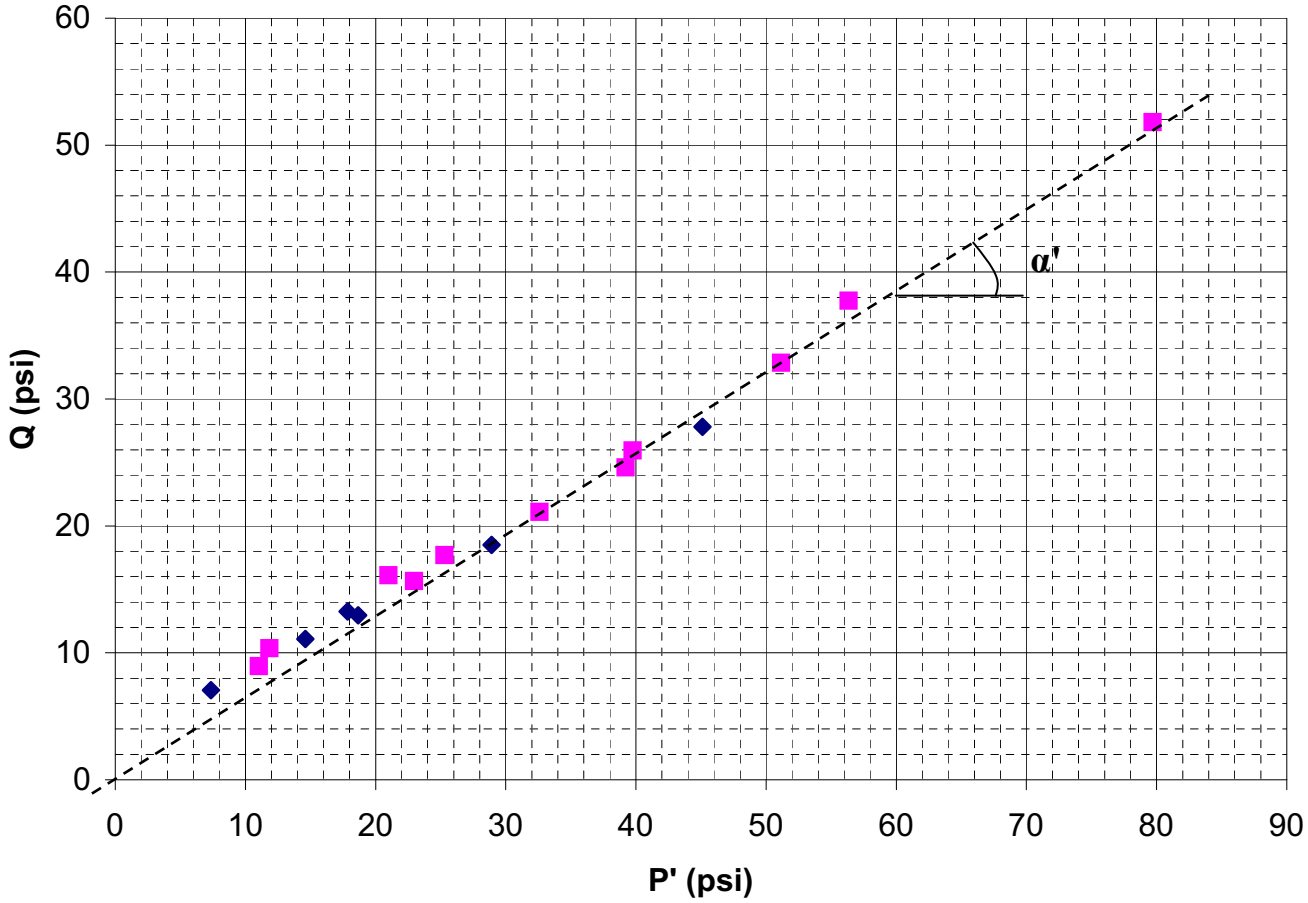
Failure points at maximum principal stress ratio, $(\sigma'_1/\sigma'_3)_{max}$

Table L2 - P'-Q Data from CU Triaxial Tests

Failure points selected at maximum principle stress ratio, $(\sigma'_1/\sigma'_3)_{max}$

| Test Sample ID | specimen # | $\sigma_3'_f$ (psi) | $\sigma_1'_f$ (psi) | $(\sigma_1'/\sigma_3')_f$ | $P' = (\sigma'_1+\sigma'_3)/2$ (psi) | $Q' = (\sigma'_1-\sigma'_3)/2$ (psi) |
|---|---|---|---|---|---|---|
| B-1A & B-2, ST-1 | 1 | 0.3 | 14.4 | 48.0 | 7.4 | 7.1 |
| | 2 | 3.5 | 25.7 | 7.3 | 14.6 | 11.1 |
| | 3 | 4.6 | 31.1 | 6.8 | 17.9 | 13.3 |
| B-2, ST-2 | 1 | 5.7 | 31.6 | 5.5 | 18.7 | 13.0 |
| | 2 | 10.4 | 47.4 | 4.6 | 28.9 | 18.5 |
| | 3 | 17.3 | 72.9 | 4.2 | 45.1 | 27.8 |
| B-5, ST-1 | 1 | 2.1 | 20 | 9.5 | 11.1 | 9.0 |
| | 2 | 11.5 | 53.7 | 4.7 | 32.6 | 21.1 |
| | 3 | 14.6 | 63.8 | 4.4 | 39.2 | 24.6 |
| B-7, ST-1 | 1 | 1.5 | 22.2 | 14.8 | 11.9 | 10.4 |
| | 2 | 4.9 | 37.1 | 7.6 | 21.0 | 16.1 |
| | 3 | 7.6 | 43 | 5.7 | 25.3 | 17.7 |
| B-7, ST-2 | 1 | 7.3 | 38.6 | 5.3 | 23.0 | 15.7 |
| | 2 | 13.8 | 65.7 | 4.8 | 39.8 | 26.0 |
| | 3 | 18.3 | 84 | 4.6 | 51.2 | 32.9 |
| B-7, ST-3 | 1 | 18.6 | 94.1 | 5.1 | 56.4 | 37.8 |
| | 2 | 27.9 | 131.5 | 4.7 | 79.7 | 51.8 |
| B-4, ST-1 & ST-2 | 1 | 0.9 | 43.3 | 48.1 | 22.1 | 21.2 |
| | 2 | 7.1 | 68.9 | 9.7 | 38.0 | 30.9 |
| | 3 | 10.9 | 84.4 | 7.7 | 47.7 | 36.8 |
| | 4 | 20 | 108.7 | 5.4 | 64.4 | 44.4 |

# P' vs. Q from CU Triaxial Tests




◆ original 1964 fill

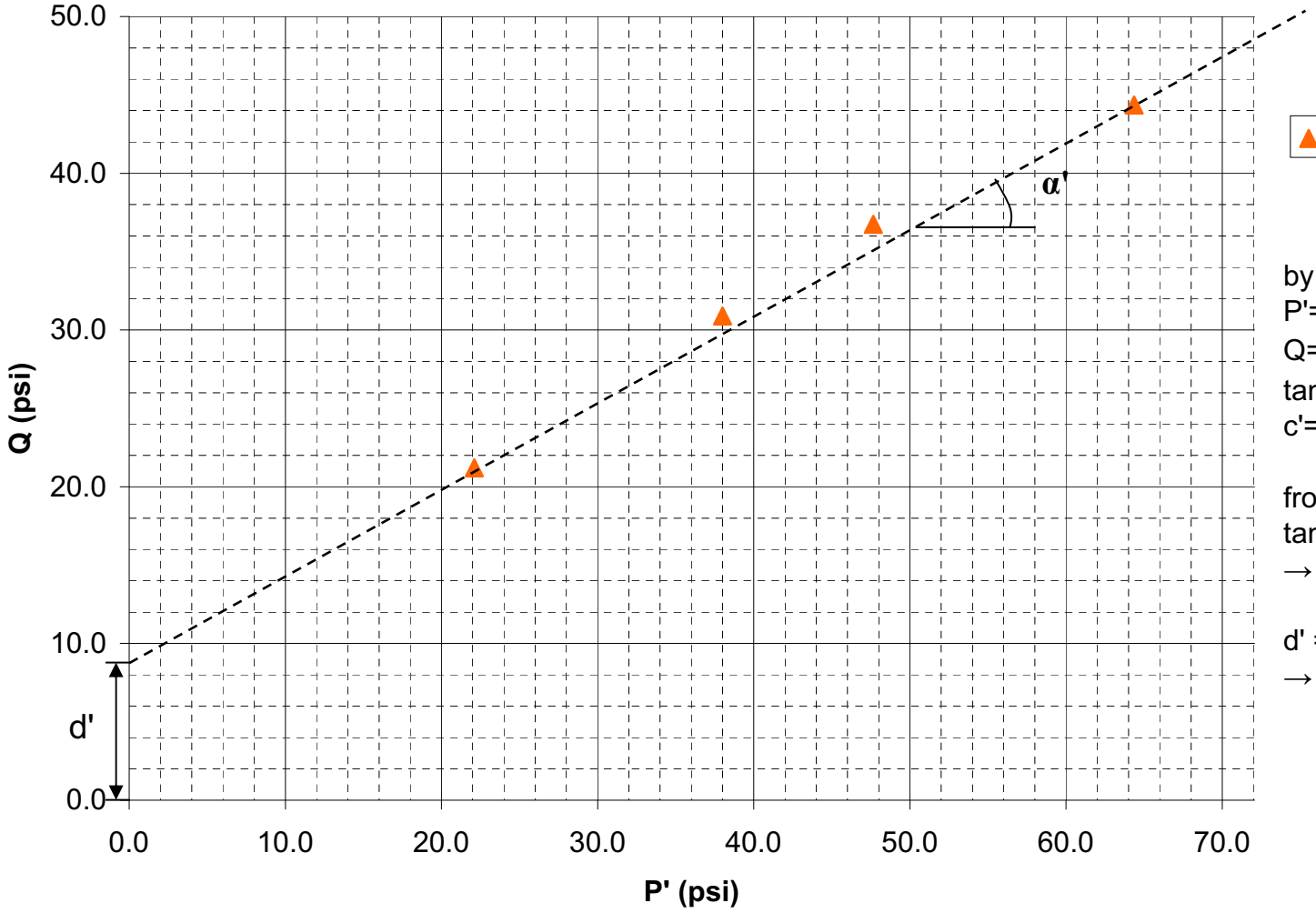
■ 1971 Addition Mixed Fill

by definition,
$P'=(\sigma'_{1f} + \sigma'_{3f})/2$
$Q=(\sigma'_{1f} - \sigma'_{3f})/2$
$\tan \alpha' = \sin \Phi'$

from plot,
$\tan \alpha = 54/84=0.64286$
$\rightarrow \Phi'=40.0^{o}$

FIGURE L1

## P' vs. Q from CU Triaxial Tests




by definition,
$P'=(\sigma'_{1f} + \sigma'_{3f})/2$
$Q=(\sigma'_{1f} - \sigma'_{3f})/2$
$\tan \alpha' = \sin\Phi'$
$c'= d' / \cos\Phi'$

from plot,
$\tan \alpha =(44-9)/64=0.5469$
$\rightarrow \Phi' = 33.1°$

$d' = 9$ psi = 1296 psf
$\rightarrow c' =$ 1547 psf

FIGURE L2

*Form No. TR-D422-3*
*Revision No. 0*
*Revision Date: 02/20/08*

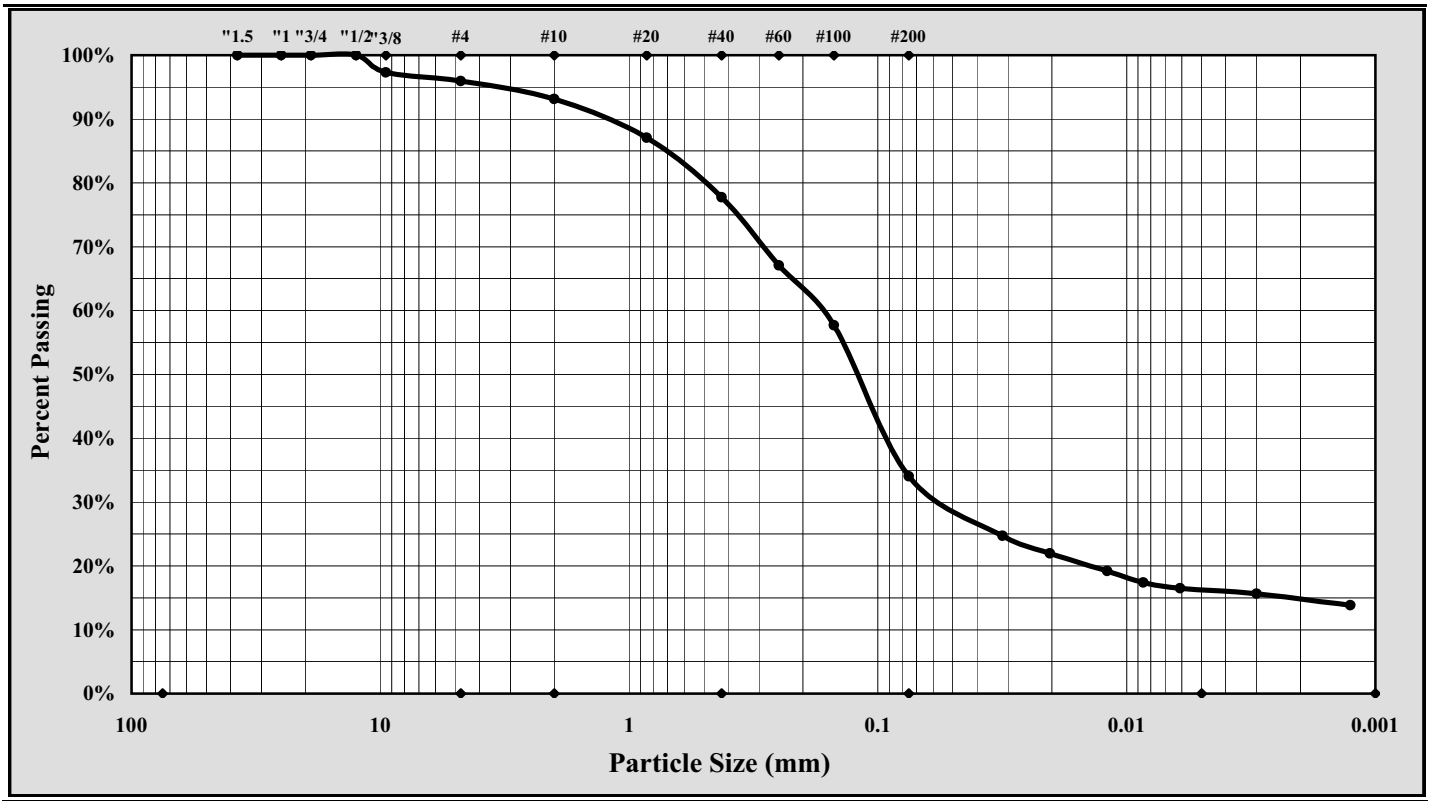
# Particle Size Analysis of Soils

*ASTM D422*

***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| S&ME Project #: | 1411-09-084 | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/16 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Address: | Raleigh, NC | | |
| Boring #: | B-1A Sample #: ST-1 | Sample Date: | 11/4/09 |
| Location: | Site-Borehole Offset: NA | Depth (ft): | 8.5 - 10.0 ft. |
| Sample Description: | Brown Clayey SAND (SC) | | |




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | 1/2" | Gravel: | 4.0% | Silt | 17.8% |
| Silt & Clay (% Passing #200): | 34.0% | Total Sand: | 61.9% | Clay | 16.2% |
| Apparent Relative Density | 2.751 | Moisture Content | | Colloids | 13.8% |
| Liquid Limit | 34 | Plastic Limit | 23 | Plastic Index | 11 |
| Coarse Sand: | 2.8% | Medium Sand: | 15.4% | Fine Sand: | 43.7% |

Description of Sand and Gravel: Rounded ☒ Angular ☒ Hard & Durable ☐ Soft ☒ Weathered & Friable ☐

Mechanical Stirring Apparatus A — Dispersion Period: 1 min. — Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 854, D 2487

Mal Krajan, ET — *Technical Responsibility*
_____ — *Signature*
Laboratory Manager — *Position*
_____ — *Date*

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*Form No. TR-D4318-T89-90*
*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

S&ME

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/16 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-1A | Sample #: ST-1 | | Sample Date: 11/4/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 8.5 - 10.0 ft. | |
| Sample Description: | Brown Clayey SAND (SC) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/4/2009 | Grooving tool | S-1 | 5/29/2009 |
| LL Apparatus | 1084 | 6/2/2009 | Grooving tool | | |
| Oven | 13289 | 8/17/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 17 | 18 | 19 | | | | 20 | 21 | |
| A | Tare Weight | 12.95 | 12.98 | 13.08 | | | | **12.95** | 12.90 | |
| B | Wet Soil Weight + A | 23.46 | 25.53 | 27.20 | | | | 25.80 | 24.70 | |
| C | Dry Soil Weight + A | 20.84 | 22.31 | 23.41 | | | | 23.34 | 22.56 | |
| D | Water Weight (B-C) | 2.62 | 3.22 | 3.79 | | | | 2.46 | 2.14 | |
| E | Dry Soil Weight (C-A) | 7.89 | 9.33 | 10.33 | | | | 10.39 | 9.66 | |
| **F** | % Moisture (D/E)*100 | 33.2% | 34.5% | 36.7% | | | | 23.7% | 22.2% | |
| N | # OF DROPS | 32 | 25 | 15 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **22.9%** | | |

One Point Liquid Limit

| N | Factor | N | Factor |
|---|---|---|---|
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **34** |
| Plastic Limit | **23** |
| Plastic Index | **11** |
| Group Symbol | **CL** |

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Form No. TR-D422-3*
*Revision No. 0*
*Revision Date: 02/20/08*

# Particle Size Analysis of Soils

*ASTM D422*

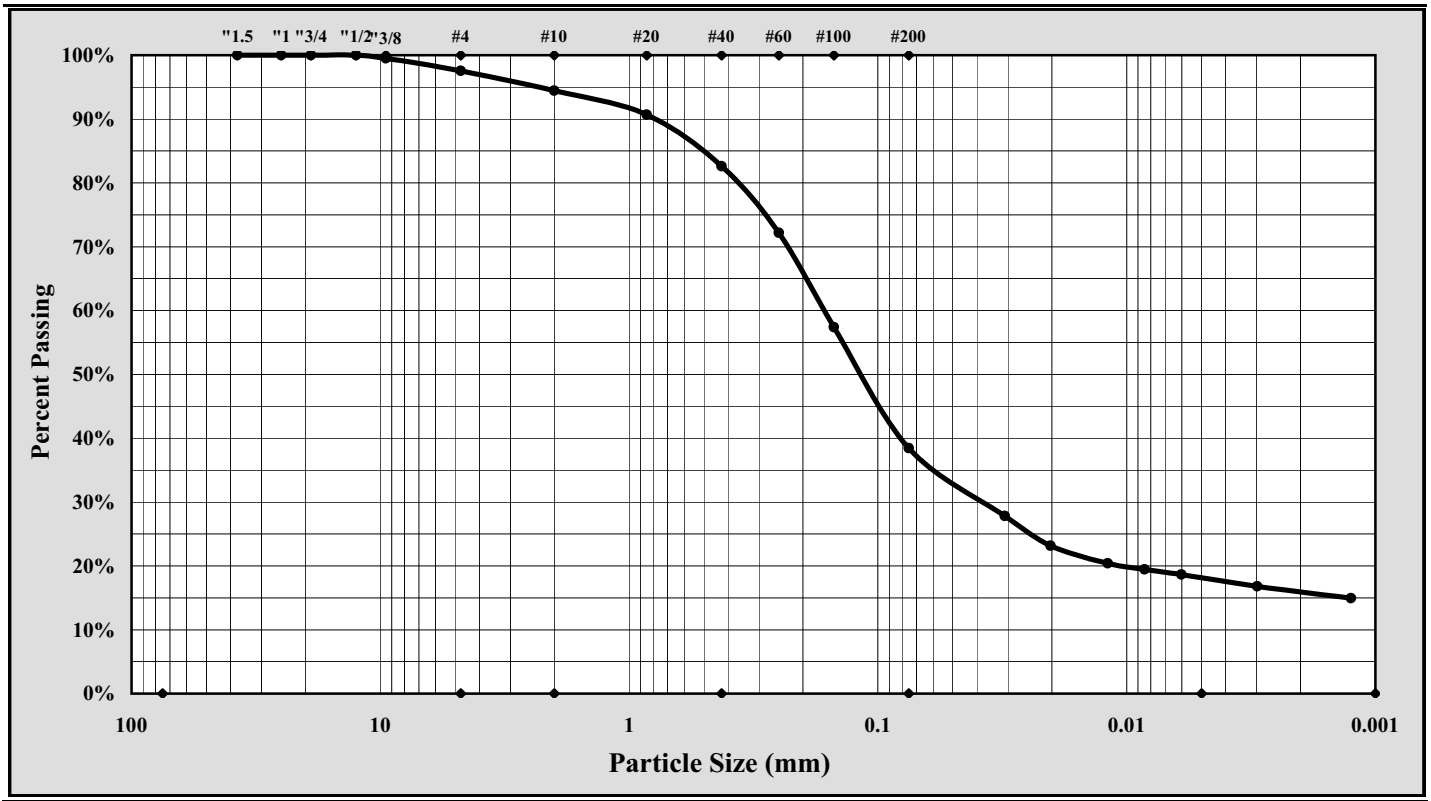
***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| S&ME Project #: | 1411-09-084 | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/16 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-2 | Sample #: | ST-1 | Sample Date: | 11/4/09 |
| Location: | Site-Borehole | Offset: | NA | Depth (ft): | 12 - 14 ft. |

Sample Description: Brown Silty SAND (SM)




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | 1/2" | Gravel: | 2.5% | Silt | 20.6% |
| Silt & Clay (% Passing #200): | 38.4% | Total Sand: | 59.1% | Clay | 17.8% |
| Apparent Relative Density | 2.751 | Moisture Content | | Colloids | 14.9% |
| Liquid Limit | 32 | Plastic Limit | 26 | Plastic Index | 6 |
| Coarse Sand: | 3.1% | Medium Sand: | 11.8% | Fine Sand: | 44.2% |

Description of Sand and Gravel: Rounded ☒ Angular ☒ Hard & Durable ☐ Soft ☒ Weathered & Friable ☐

Mechanical Stirring Apparatus A — Dispersion Period: 1 min. — Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 854, D 2487

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Form No. TR-D4318-T89-90*
*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/16 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-2 | Sample #: ST-1 | | Sample Date: 11/4/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 12 - 14 ft. | |
| Sample Description: | Brown Silty SAND (SM) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/4/2009 | Grooving tool | S-1 | 5/29/2009 |
| LL Apparatus | 1084 | 6/2/2009 | Grooving tool | | |
| Oven | 13289 | 8/17/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 12 | 13 | 14 | | | | 15 | 16 | |
| A | Tare Weight | 12.97 | 13.02 | 12.98 | | | | **12.46** | 13.02 | |
| B | Wet Soil Weight + A | 27.25 | 26.51 | 27.57 | | | | 24.10 | 25.87 | |
| C | Dry Soil Weight + A | 23.51 | 23.20 | 24.32 | | | | 21.67 | 23.19 | |
| D | Water Weight (B-C) | 3.74 | 3.31 | 3.25 | | | | 2.43 | 2.68 | |
| E | Dry Soil Weight (C-A) | 10.54 | 10.18 | 11.34 | | | | 9.21 | 10.17 | |
| **F** | % Moisture (D/E)*100 | 35.5% | 32.5% | 28.7% | | | | 26.4% | 26.4% | |
| N | # OF DROPS | 15 | 25 | 35 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **26.4%** | | |

| One Point Liquid Limit | | | |
|---|---|---|---|
| **N** | **Factor** | **N** | **Factor** |
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **32** |
| Plastic Limit | **26** |
| Plastic Index | **6** |
| Group Symbol | **SM** |
| Multipoint Method | ☑ |
| One-point Method | ☐ |

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

Mal Krajan, ET — *Technical Responsibility* | _____ — *Signature* | Laboratory Manager — *Position* | _____ — *Date*

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*Form No. TR-D422-3*
*Revision No. 0*
*Revision Date: 02/20/08*

# Particle Size Analysis of Soils

*ASTM D422*

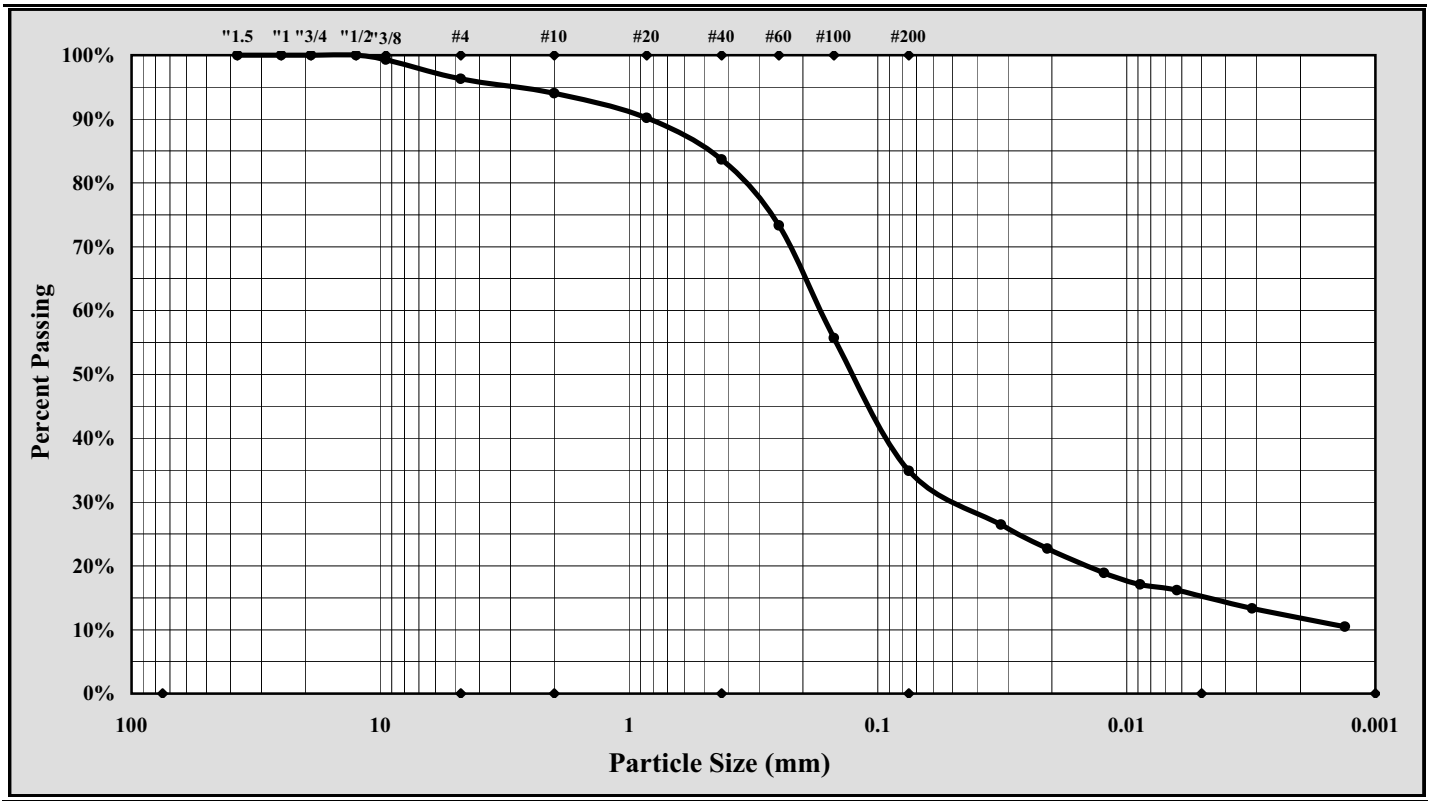
***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| S&ME Project #: | 1411-09-084 | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/16 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-2 | Sample #: | ST-2 | Sample Date: | 11/4/09 |
| Location: | Site-Borehole | Offset: | NA | Depth (ft): | 20 - 22 ft. |

Sample Description: Brown Silty SAND (SM)




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | 1/2" | Gravel: | 3.7% | Silt | 19.9% |
| Silt & Clay (% Passing #200): | 34.9% | Total Sand: | 61.4% | Clay | 15.0% |
| Apparent Relative Density | 2.674 | Moisture Content | | Colloids | 10.5% |
| Liquid Limit | 37 | Plastic Limit | 28 | Plastic Index | 9 |
| Coarse Sand: | 2.3% | Medium Sand: | 10.3% | Fine Sand: | 48.8% |

Description of Sand and Gravel: Rounded ☒ Angular ☒ Hard & Durable ☐ Soft ☒ Weathered & Friable ☐

Mechanical Stirring Apparatus A — Dispersion Period: 1 min. — Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 854, D 2487

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/16 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-2 | Sample #: ST-2 | | Sample Date: 11/4/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 20 - 22 ft. | |
| Sample Description: | Brown Silty SAND (SM) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/4/2009 | Grooving tool | S-1 | 5/29/2009 |
| LL Apparatus | 1084 | 6/2/2009 | Grooving tool | | |
| Oven | 13289 | 8/17/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 7 | 8 | 9 | | | | 10 | 11 | |
| A | Tare Weight | 12.95 | 13.01 | 13.07 | | | | **13.01** | 12.53 | |
| B | Wet Soil Weight + A | 25.23 | 24.94 | 28.11 | | | | 25.14 | 25.83 | |
| C | Dry Soil Weight + A | 22.04 | 21.80 | 23.80 | | | | 22.52 | 22.96 | |
| D | Water Weight (B-C) | 3.19 | 3.14 | 4.31 | | | | 2.62 | 2.87 | |
| E | Dry Soil Weight (C-A) | 9.09 | 8.79 | 10.73 | | | | 9.51 | 10.43 | |
| **F** | % Moisture (D/E)*100 | 35.1% | 35.7% | 40.2% | | | | 27.5% | 27.5% | |
| N | # OF DROPS | 35 | 25 | 15 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **27.5%** | | |

One Point Liquid Limit

| N | Factor | N | Factor |
|---|---|---|---|
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **37** |
| Plastic Limit | **28** |
| Plastic Index | **9** |
| Group Symbol | **ML** |

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Revision No. 0*
*Revision Date: 02/20/08*

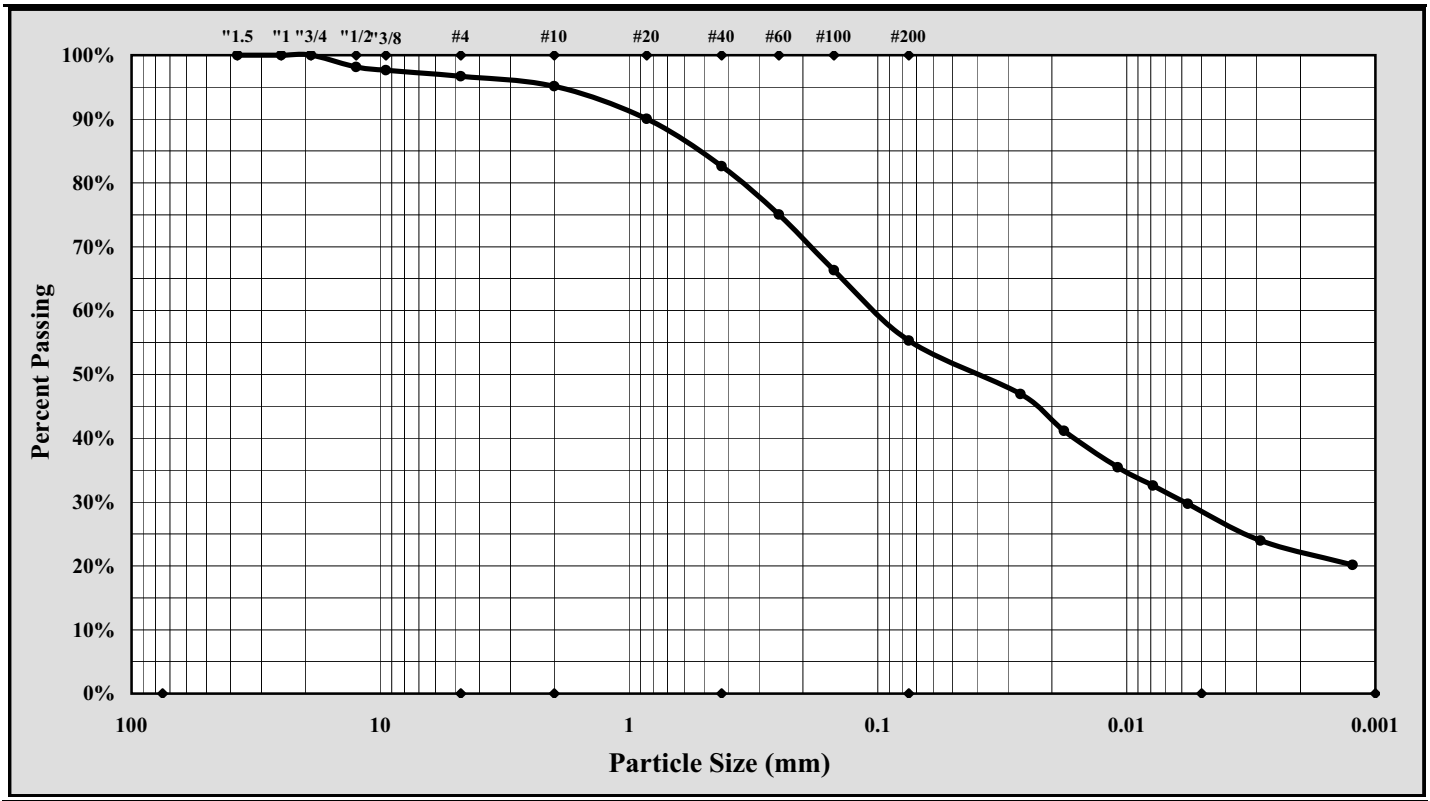
# Particle Size Analysis of Soils

*ASTM D422*

***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| S&ME Project #: | 1411-09-084 | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/17 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Address: | Raleigh, NC | | |
| Boring #: | B-5 Sample #: ST-1 | Sample Date: | 11/3/09 |
| Location: | Site-Borehole Offset: NA | Depth (ft): | 65.5 - 67.5 ft. |
| Sample Description: | Red-Brown Sandy SILT (ML) | | |




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | 3/4" | Gravel: | 3.3% | Silt | 27.8% |
| Silt & Clay (% Passing #200): | 55.3% | Total Sand: | 41.4% | Clay | 27.5% |
| Apparent Relative Density | 2.697 | Moisture Content | | Colloids | 20.2% |
| Liquid Limit | 49 | Plastic Limit | 33 | Plastic Index | 16 |
| Coarse Sand: | 1.6% | Medium Sand: | 12.5% | Fine Sand: | 27.3% |

Description of Sand and Gravel: Rounded ☒ Angular ☒ Hard & Durable ☐ Soft ☒ Weathered & Friable ☐

Mechanical Stirring Apparatus A — Dispersion Period: 1 min. — Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 854, D 2487

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

S&ME

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

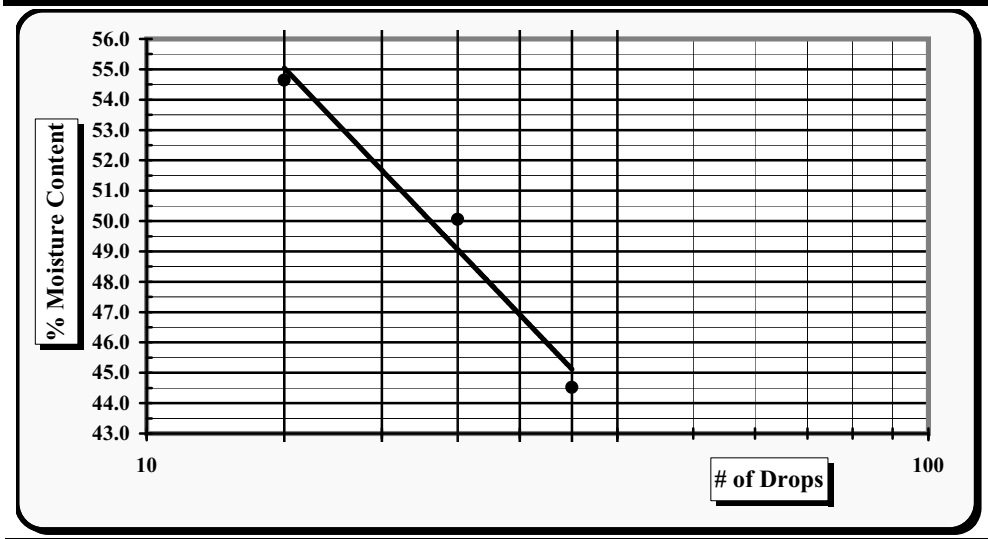
**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/17 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-5 | Sample #: ST-1 | | Sample Date: 11/3/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 65.5 - 67.5 ft. | |
| Sample Description: | Red-Brown Sandy SILT (ML) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/4/2009 | Grooving tool | S-1 | 5/29/2009 |
| LL Apparatus | 1084 | 6/2/2009 | Grooving tool | | |
| Oven | 13289 | 8/17/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 22 | 23 | 24 | | | | 25 | 26 | |
| A | Tare Weight | 13.06 | 13.04 | 13.00 | | | | **12.93** | 12.90 | |
| B | Wet Soil Weight + A | 26.24 | 27.37 | 27.15 | | | | 25.65 | 25.25 | |
| C | Dry Soil Weight + A | 22.18 | 22.59 | 22.15 | | | | 22.47 | 22.17 | |
| D | Water Weight (B-C) | 4.06 | 4.78 | 5.00 | | | | 3.18 | 3.08 | |
| E | Dry Soil Weight (C-A) | 9.12 | 9.55 | 9.15 | | | | 9.54 | 9.27 | |
| **F** | % Moisture (D/E)*100 | 44.5% | 50.1% | 54.6% | | | | 33.3% | 33.2% | |
| N | # OF DROPS | 35 | 25 | 15 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **33.3%** | | |




One Point Liquid Limit

| N | Factor | N | Factor |
|---|---|---|---|
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **49** |
| Plastic Limit | **33** |
| Plastic Index | **16** |
| Group Symbol | **ML** |

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Revision No. 0*
*Revision Date: 02/20/08*

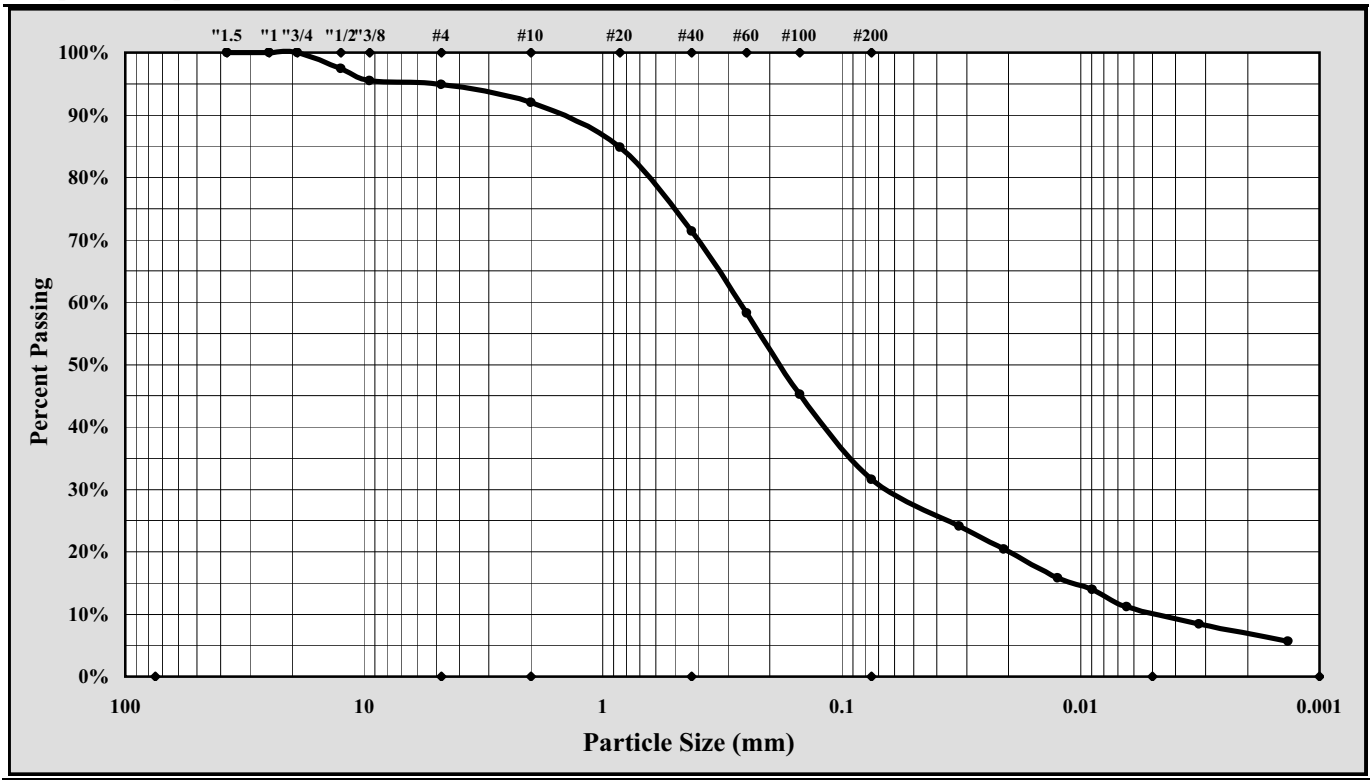
# Particle Size Analysis of Soils

*ASTM D422*

***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | | | |
|---|---|---|---|---|---|
| S&ME Project #: | 1411-09-084 | | | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | | | Test Date(s): | 11/18 - 11/22/09 |
| Client Name: | Progress Energy | | | | |
| Address: | Raleigh, NC | | | | |
| Boring #: | B-7 | Sample #: | ST-1 | Sample Date: | 11/5/09 |
| Location: | Site-Borehole | Offset: | NA | Depth (ft): | 45.6 - 47.6 ft. |
| Sample Description: | Brown Silty SAND (SM) | | | | |




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | 3/4" | Gravel: | 5.1% | Silt | 21.6% |
| Silt & Clay (% Passing #200): | 31.6% | Total Sand: | 63.3% | Clay | 10.0% |
| Apparent Relative Density | 2.695 | Moisture Content | | Colloids | 5.6% |
| Liquid Limit | 36 | Plastic Limit | 29 | Plastic Index | 7 |
| Coarse Sand: | 2.8% | Medium Sand: | 20.6% | Fine Sand: | 39.9% |

Description of Sand and Gravel: Rounded ☒ Angular ☒ Hard & Durable ☐ Soft ☒ Weathered & Friable ☐

Mechanical Stirring Apparatus A — Dispersion Period: 1 min. — Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 854, D 2487

Mal Krajan, ET — *Technical Responsibility*
_____ — *Signature*
Laboratory Manager — *Position*
_____ — *Date*

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*Form No. TR-D4318-T89-90*
*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

S&ME

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

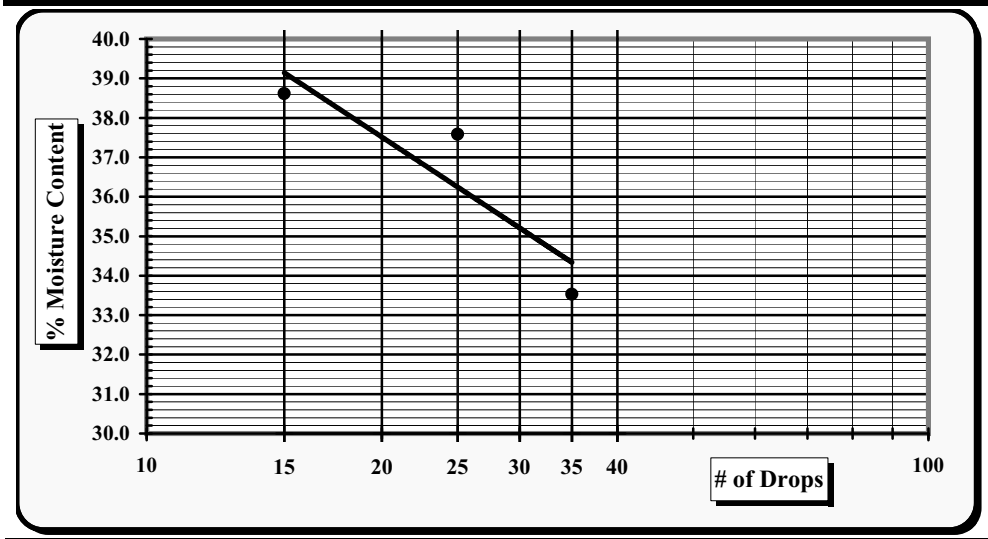
**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/18 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-7 | Sample #: ST-1 | | Sample Date: 11/5/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 45.6 - 47.6 ft. | |
| Sample Description: | Brown Silty SAND (SM) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/4/2009 | Grooving tool | S-1 | 5/29/2009 |
| LL Apparatus | 1084 | 6/2/2009 | Grooving tool | | |
| Oven | 13289 | 8/17/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 27 | 23 | 24 | | | | 30 | 801 | |
| A | Tare Weight | 13.02 | 13.11 | 13.00 | | | | **13.04** | 16.66 | |
| B | Wet Soil Weight + A | 25.80 | 23.14 | 24.43 | | | | 24.34 | 28.52 | |
| C | Dry Soil Weight + A | 22.24 | 20.40 | 21.56 | | | | 21.74 | 25.86 | |
| D | Water Weight (B-C) | 3.56 | 2.74 | 2.87 | | | | 2.60 | 2.66 | |
| E | Dry Soil Weight (C-A) | 9.22 | 7.29 | 8.56 | | | | 8.70 | 9.20 | |
| **F** | % Moisture (D/E)*100 | 38.6% | 37.6% | 33.5% | | | | 29.9% | 28.9% | |
| N | # OF DROPS | 15 | 25 | 35 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **29.4%** | | |




One Point Liquid Limit

| N | Factor | N | Factor |
|---|---|---|---|
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **36** |
| Plastic Limit | **29** |
| Plastic Index | **7** |
| Group Symbol | **ML** |

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Form No. TR-D422-3*
*Revision No. 0*
*Revision Date: 02/20/08*

# Particle Size Analysis of Soils

*ASTM D422*

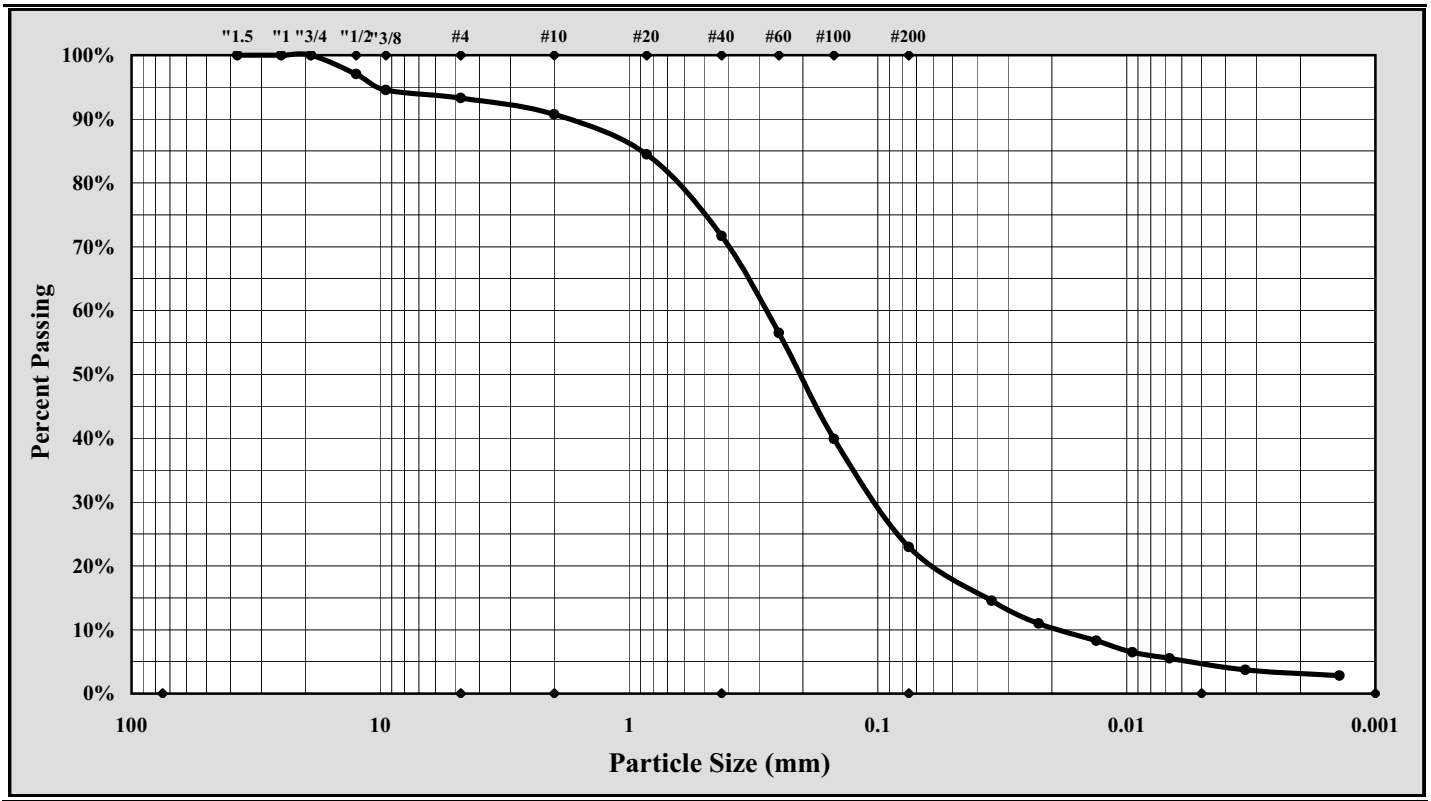
***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| S&ME Project #: | 1411-09-084 | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/18 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-7 | Sample #: | ST-2 | Sample Date: | 11/5/09 |
| Location: | Site-Borehole | Offset: | NA | Depth (ft): | 55.6 - 57.6 ft. |

Sample Description: Tan-Brown Micaceous Silty SAND with Gravel (SM)




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | 3/4" | Gravel: | 6.7% | Silt | 18.2% |
| Silt & Clay (% Passing #200): | 23.0% | Total Sand: | 70.3% | Clay | 4.8% |
| Apparent Relative Density | 2.650 | Moisture Content | | Colloids | 2.8% |
| Liquid Limit | 27 | Plastic Limit | 25 | Plastic Index | 2 |
| Coarse Sand: | 2.6% | Medium Sand: | 19.0% | Fine Sand: | 48.7% |

Description of Sand and Gravel: Rounded ☐ Angular ☒ Hard & Durable ☐ Soft ☒ Weathered & Friable ☐

Mechanical Stirring Apparatus A — Dispersion Period: 1 min. — Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 854, D 2487

| | | | |
|---|---|---|---|
| Mal Krajan, ET | | Laboratory Manager | |
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Form No. TR-D4318-T89-90*
*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

S&ME

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/18 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-7 | Sample #: ST-2 | | Sample Date: 11/5/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 55.6 - 57.6 ft. | |
| Sample Description: | Tan-Brown Micaceous Silty SAND with Gravel (SM) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/4/2009 | Grooving tool | S-1 | 5/29/2009 |
| LL Apparatus | 1084 | 6/2/2009 | Grooving tool | | |
| Oven | 13289 | 8/17/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 7 | 8 | 9 | | | | 1 | 2 | |
| A | Tare Weight | 12.95 | 12.96 | 13.02 | | | | **12.96** | 13.02 | |
| B | Wet Soil Weight + A | 23.95 | 24.11 | 23.62 | | | | 19.72 | 22.61 | |
| C | Dry Soil Weight + A | 21.42 | 21.75 | 21.45 | | | | 18.37 | 20.75 | |
| D | Water Weight (B-C) | 2.53 | 2.36 | 2.17 | | | | 1.35 | 1.86 | |
| E | Dry Soil Weight (C-A) | 8.47 | 8.79 | 8.43 | | | | 5.41 | 7.73 | |
| **F** | % Moisture (D/E)*100 | 29.9% | 26.8% | 25.7% | | | | 25.0% | 24.1% | |
| N | # OF DROPS | 15 | 25 | 27 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **24.5%** | | |

One Point Liquid Limit

| N | Factor | N | Factor |
|---|---|---|---|
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **27** |
| Plastic Limit | **25** |
| Plastic Index | **2** |
| Group Symbol | **ML** |

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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# Sieve Analysis of Soils

*ASTM D 422*

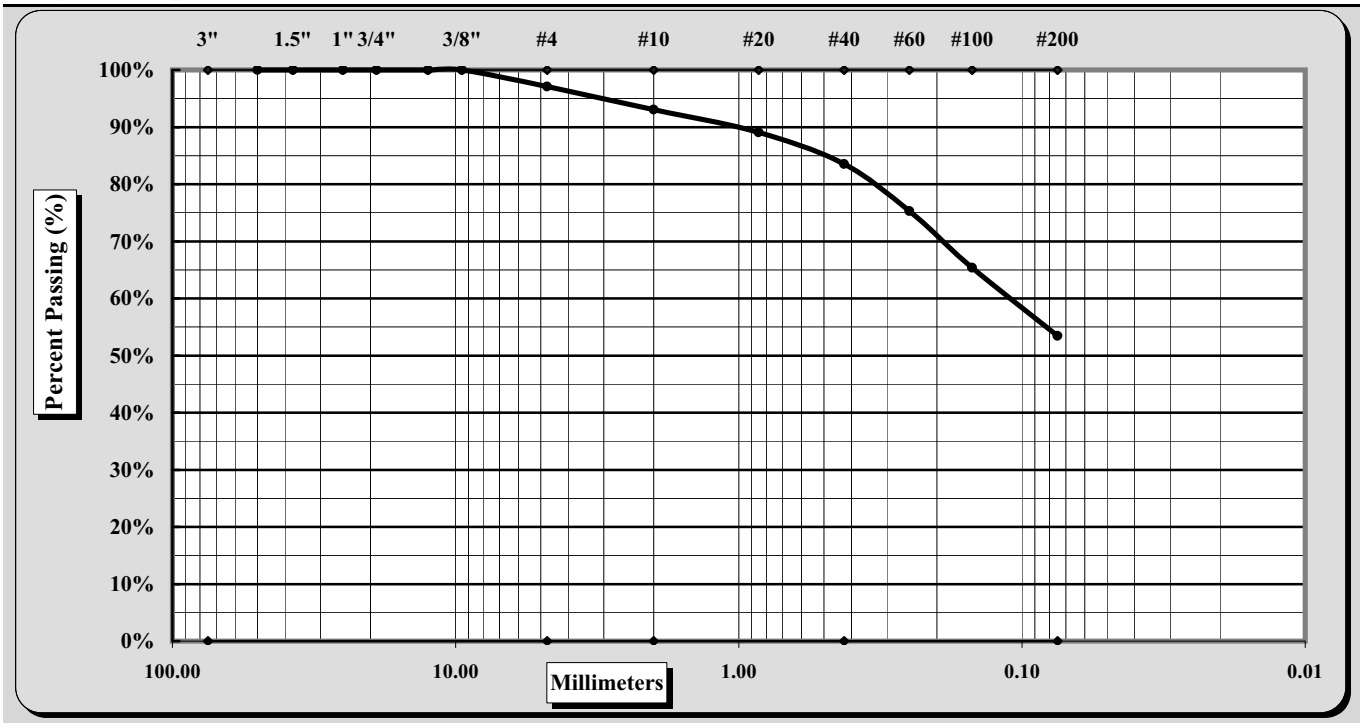
***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/18 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring No.: | B-7 | Sample: | ST-3 | Sample Date: | 11/5/09 |
| Location: | Site-Borehole | Offset: | NA | Depth (ft): | 65.6 - 67.6 ft. |

***Sample Description:*** Red-Brown Sandy CLAY (CL)




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size | 3/8" | Coarse Sand | 4.0% | Fine Sand | 30.1% |
| Gravel | 2.9% | Medium Sand | 9.5% | Silt & Clay | 53.4% |
| Liquid Limit | 41 | Plastic Limit | 26 | Plastic Index | 15 |
| Specific Gravity | 2.771 | | | Moisture Content | 20.7% |
| Coarse Sand | 4.0% | Medium Sand | 9.5% | Fine Sand | 30.1% |

Description of Sand & Gravel Particles: Rounded ☐ Angular ☐
Hard & Durable ☐ Soft ☐ Weathered & Friable ☐

***Notes / Deviations / References:***

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

ASTM D 2487: Classification of Soils for Engineering Purposes (Unified Soil Classification System)

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

S&ME

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/18 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-7 | Sample #: ST-3 | | Sample Date: 11/5/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 65.6 - 67.6 ft. | |
| Sample Description: | Red-Brown Sandy CLAY (CL) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/12/2008 | Grooving tool | S-1 | 8/22/2008 |
| LL Apparatus | 1084 | 8/22/2008 | Grooving tool | | |
| Oven | 1454 | 2/14/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 1 | 2 | 3 | | | | 5 | 6 | |
| A | Tare Weight | 12.92 | 12.94 | 13.03 | | | | **12.41** | 12.95 | |
| B | Wet Soil Weight + A | 23.38 | 25.38 | 27.56 | | | | 24.49 | 25.69 | |
| C | Dry Soil Weight + A | 20.55 | 21.76 | 22.95 | | | | 22.06 | 23.06 | |
| D | Water Weight (B-C) | 2.83 | 3.62 | 4.61 | | | | 2.43 | 2.63 | |
| E | Dry Soil Weight (C-A) | 7.63 | 8.82 | 9.92 | | | | 9.65 | 10.11 | |
| **F** | % Moisture (D/E)*100 | 37.1% | 41.0% | 46.5% | | | | 25.2% | 26.0% | |
| N | # OF DROPS | 35 | 24 | 15 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **25.6%** | | |

One Point Liquid Limit

| N | Factor | N | Factor |
|---|---|---|---|
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **41** |
| Plastic Limit | **26** |
| Plastic Index | **15** |
| Group Symbol | **CL** |

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

ASTM D 2487: Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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# Sieve Analysis of Soils

*ASTM D 422*

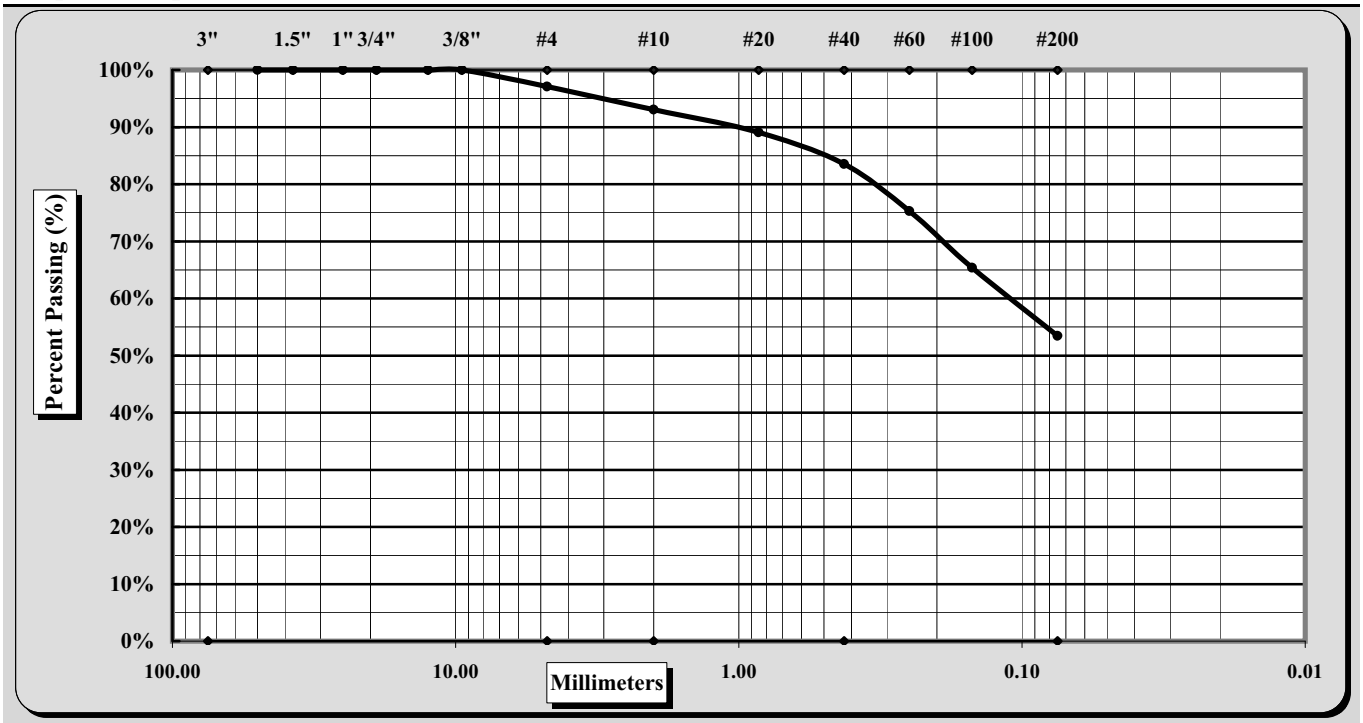
***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/18 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring No.: | B-7 | Sample: | ST-3 | Sample Date: | 11/5/09 |
| Location: | Site-Borehole | Offset: | NA | Depth (ft): | 65.6 - 67.6 ft. |

***Sample Description:*** Red-Brown Sandy CLAY (CL)




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size | 3/8" | Coarse Sand | 4.0% | Fine Sand | 30.1% |
| Gravel | 2.9% | Medium Sand | 9.5% | Silt & Clay | 53.4% |
| Liquid Limit | 41 | Plastic Limit | 26 | Plastic Index | 15 |
| Specific Gravity | 2.771 | | | Moisture Content | 20.7% |
| Coarse Sand | 4.0% | Medium Sand | 9.5% | Fine Sand | 30.1% |

Description of Sand & Gravel Particles: Rounded ☐ Angular ☐
Hard & Durable ☐ Soft ☐ Weathered & Friable ☐

***Notes / Deviations / References:***

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

ASTM D 2487: Classification of Soils for Engineering Purposes (Unified Soil Classification System)

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

S&ME

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/18 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-7 | Sample #: ST-3 | | Sample Date: 11/5/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 65.6 - 67.6 ft. | |
| Sample Description: | Red-Brown Sandy CLAY (CL) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/12/2008 | Grooving tool | S-1 | 8/22/2008 |
| LL Apparatus | 1084 | 8/22/2008 | Grooving tool | | |
| Oven | 1454 | 2/14/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 1 | 2 | 3 | | | | 5 | 6 | |
| A | Tare Weight | 12.92 | 12.94 | 13.03 | | | | **12.41** | 12.95 | |
| B | Wet Soil Weight + A | 23.38 | 25.38 | 27.56 | | | | 24.49 | 25.69 | |
| C | Dry Soil Weight + A | 20.55 | 21.76 | 22.95 | | | | 22.06 | 23.06 | |
| D | Water Weight (B-C) | 2.83 | 3.62 | 4.61 | | | | 2.43 | 2.63 | |
| E | Dry Soil Weight (C-A) | 7.63 | 8.82 | 9.92 | | | | 9.65 | 10.11 | |
| **F** | % Moisture (D/E)*100 | 37.1% | 41.0% | 46.5% | | | | 25.2% | 26.0% | |
| N | # OF DROPS | 35 | 24 | 15 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **25.6%** | | |

One Point Liquid Limit

| N | Factor | N | Factor |
|---|---|---|---|
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **41** |
| Plastic Limit | **26** |
| Plastic Index | **15** |
| Group Symbol | **CL** |

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

ASTM D 2487: Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Form No. TR-D422-3*
*Revision No. 0*
*Revision Date: 02/20/08*

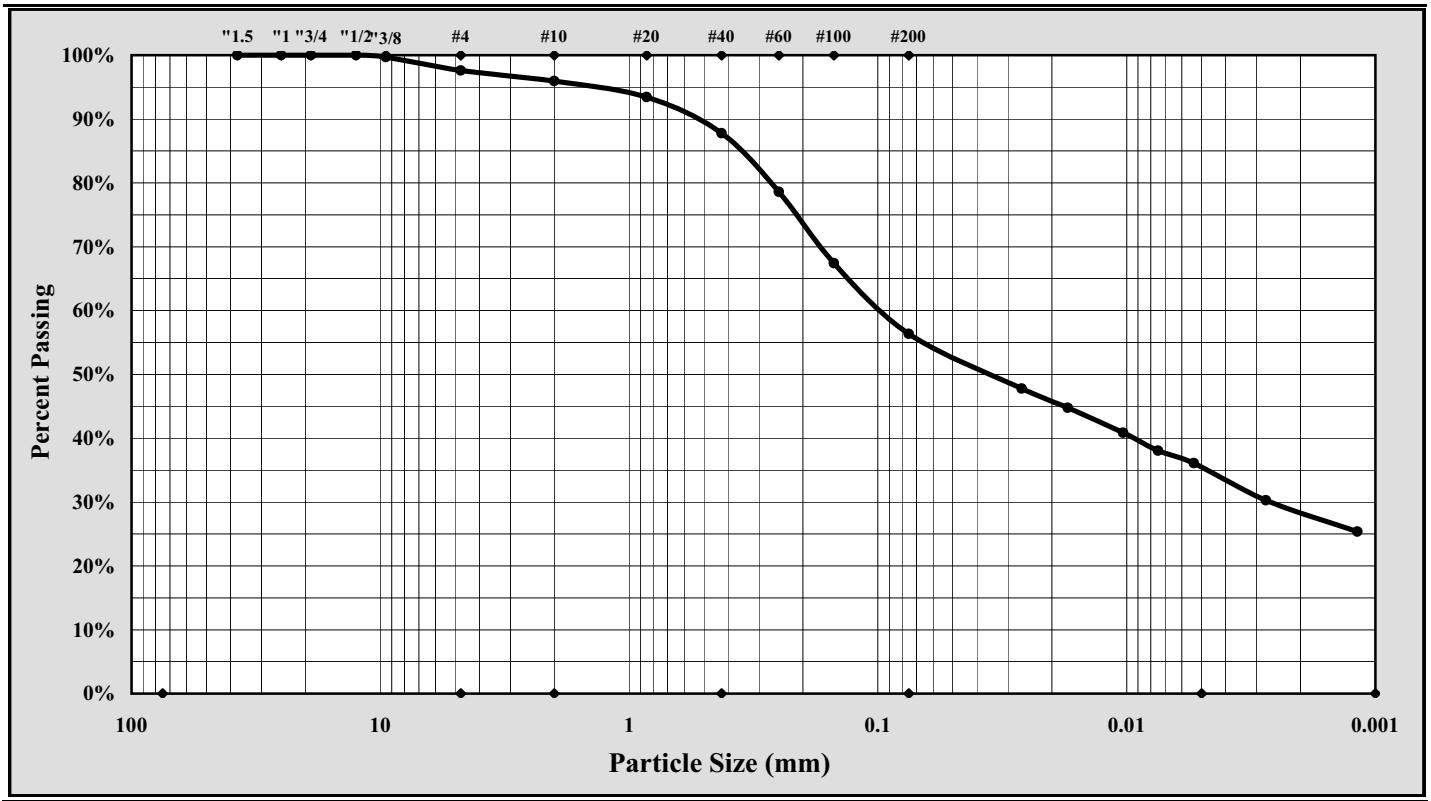
# Particle Size Analysis of Soils

*ASTM D422*

***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| S&ME Project #: | 1411-09-084 | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/16 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Address: | Raleigh, NC | | |
| Boring #: | B-4 Sample #: ST-1 | Sample Date: | 11/6/09 |
| Location: | Site-Borehole Offset: NA | Depth (ft): | 18.5 - 20.5 ft. |
| Sample Description: | Brown Sandy CLAY (CL) | | |




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | 1/2" | Gravel: | 2.4% | Silt | 20.8% |
| Silt & Clay (% Passing #200): | 56.3% | Total Sand: | 41.3% | Clay | 35.5% |
| Apparent Relative Density | 2.729 | Moisture Content | | Colloids | 25.4% |
| Liquid Limit | 39 | Plastic Limit | 19 | Plastic Index | 20 |
| Coarse Sand: | 1.6% | Medium Sand: | 8.2% | Fine Sand: | 31.4% |

Description of Sand and Gravel: Rounded ☒ Angular ☒ Hard & Durable ☐ Soft ☒ Weathered & Friable ☐

Mechanical Stirring Apparatus A — Dispersion Period: 1 min. — Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 854, D 2487

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Form No. TR-D4318-T89-90*
*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/16 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-4 | Sample #: ST-1 | | Sample Date: 11/6/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 18.5 - 20.5 ft. | |
| Sample Description: | Brown Sandy CLAY (CL) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/4/2009 | Grooving tool | S-1 | 5/29/2009 |
| LL Apparatus | 1084 | 6/2/2009 | Grooving tool | | |
| Oven | 13289 | 8/17/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 8 | 9 | 10 | | | | 11 | 12 | |
| A | Tare Weight | 13.02 | 13.07 | 13.01 | | | | **12.52** | 12.98 | |
| B | Wet Soil Weight + A | 24.98 | 27.10 | 29.37 | | | | 23.94 | 24.47 | |
| C | Dry Soil Weight + A | 21.73 | 23.10 | 24.56 | | | | 22.17 | 22.64 | |
| D | Water Weight (B-C) | 3.25 | 4.00 | 4.81 | | | | 1.77 | 1.83 | |
| E | Dry Soil Weight (C-A) | 8.71 | 10.03 | 11.55 | | | | 9.65 | 9.66 | |
| **F** | % Moisture (D/E)*100 | 37.3% | 39.9% | 41.6% | | | | 18.3% | 18.9% | |
| N | # OF DROPS | 35 | 25 | 15 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **18.6%** | | |

| One Point Liquid Limit | | | |
|---|---|---|---|
| **N** | **Factor** | **N** | **Factor** |
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **39** |
| Plastic Limit | **19** |
| Plastic Index | **20** |
| Group Symbol | **CL** |
| Multipoint Method | ☑ |
| One-point Method | ☐ |

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

Mal Krajan, ET — *Technical Responsibility* | _____ — *Signature* | Laboratory Manager — *Position* | _____ — *Date*

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*Form No. TR-D422-3*
*Revision No. 0*
*Revision Date: 02/20/08*

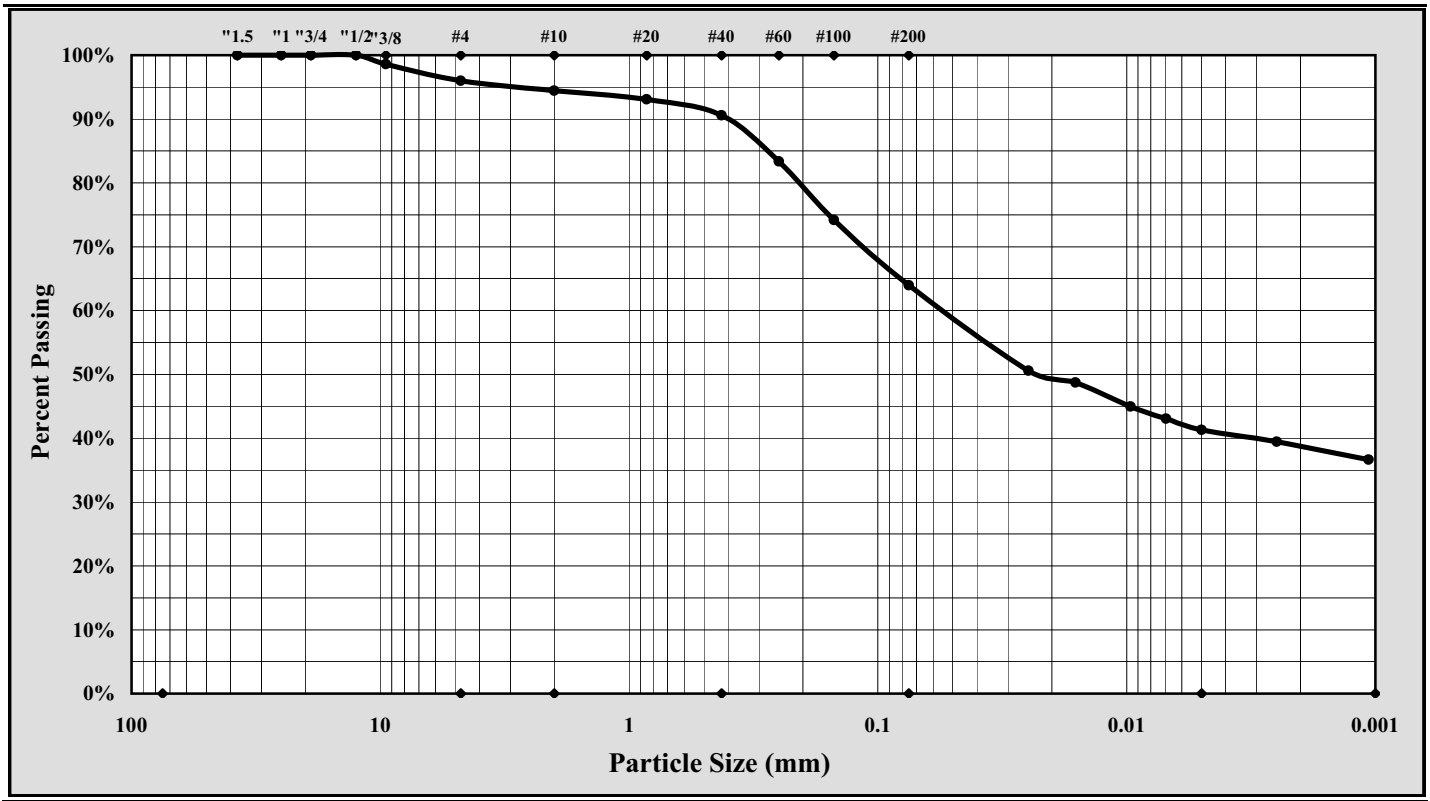
# Particle Size Analysis of Soils

*ASTM D422*

***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| S&ME Project #: | 1411-09-084 | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s): | 11/17 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Address: | Raleigh, NC | | |
| Boring #: | B-4 | Sample #: ST-2 | Sample Date: 11/6/09 |
| Location: | Site-Borehole | Offset: NA | Depth (ft): 28.5 - 30.2 ft. |
| Sample Description: | Red-Brown Sandy CLAY (CL) | | |




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | 1/2" | Gravel: | 4.0% | Silt | 22.7% |
| Silt & Clay (% Passing #200): | 64.0% | Total Sand: | 32.1% | Clay | 41.3% |
| Apparent Relative Density | 2.771 | Moisture Content | | Colloids | 36.6% |
| Liquid Limit | 49 | Plastic Limit | 27 | Plastic Index | 22 |
| Coarse Sand: | 1.6% | Medium Sand: | 3.9% | Fine Sand: | 26.6% |

Description of Sand and Gravel: Rounded ☐ Angular ☒ Hard & Durable ☐ Soft ☒ Weathered & Friable ☐

Mechanical Stirring Apparatus A — Dispersion Period: 1 min. — Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 854, D 2487

| Mal Krajan, ET | | Laboratory Manager | |
|---|---|---|---|
| *Technical Responsibility* | *Signature* | *Position* | *Date* |

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*Form No. TR-D4318-T89-90*
*Revision No. 0*
*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

**S&ME, Inc. Raleigh, 3201 Spring Forest Road, Raleigh, North Carolina 27616**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 11/22/09 |
| Project Name: | Asheville S.E.P. - 1964 Ash Basin | Test Date(s) | 11/17 - 11/22/09 |
| Client Name: | Progress Energy | | |
| Client Address: | Raleigh, NC | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-4 | Sample #: ST-2 | | Sample Date: 11/6/09 | |
| Location: | Site-Borehole | Offset: NA | | Depth (ft): 28.5 - 30.2 ft. | |
| Sample Description: | Red-Brown Sandy CLAY (CL) | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | 1024 | 11/4/2009 | Grooving tool | S-1 | 5/29/2009 |
| LL Apparatus | 1084 | 6/2/2009 | Grooving tool | | |
| Oven | 13289 | 8/17/2009 | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 1 | 2 | 3 | | | | 5 | 6 | |
| A | Tare Weight | 12.92 | 12.94 | 13.03 | | | | **12.40** | 12.94 | |
| B | Wet Soil Weight + A | 24.16 | 25.58 | 27.82 | | | | 23.93 | 24.62 | |
| C | Dry Soil Weight + A | 20.66 | 21.38 | 22.65 | | | | 21.48 | 22.15 | |
| D | Water Weight (B-C) | 3.50 | 4.20 | 5.17 | | | | 2.45 | 2.47 | |
| E | Dry Soil Weight (C-A) | 7.74 | 8.44 | 9.62 | | | | 9.08 | 9.21 | |
| **F** | % Moisture (D/E)*100 | 45.2% | 49.8% | 53.7% | | | | 27.0% | 26.8% | |
| N | # OF DROPS | 35 | 25 | 15 | | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **26.9%** | | |

| One Point Liquid Limit | | | |
|---|---|---|---|
| **N** | **Factor** | **N** | **Factor** |
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **49** |
| Plastic Limit | **27** |
| Plastic Index | **22** |
| Group Symbol | **CL** |
| Multipoint Method | ☑ |
| One-point Method | ☐ |

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

Mal Krajan, ET — *Technical Responsibility*
_____ — *Signature*
Laboratory Manager — *Position*
_____ — *Date*

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*Form No. TR-D422-3*
*Revision No. 0*
*Revision Date: 02/20/08*

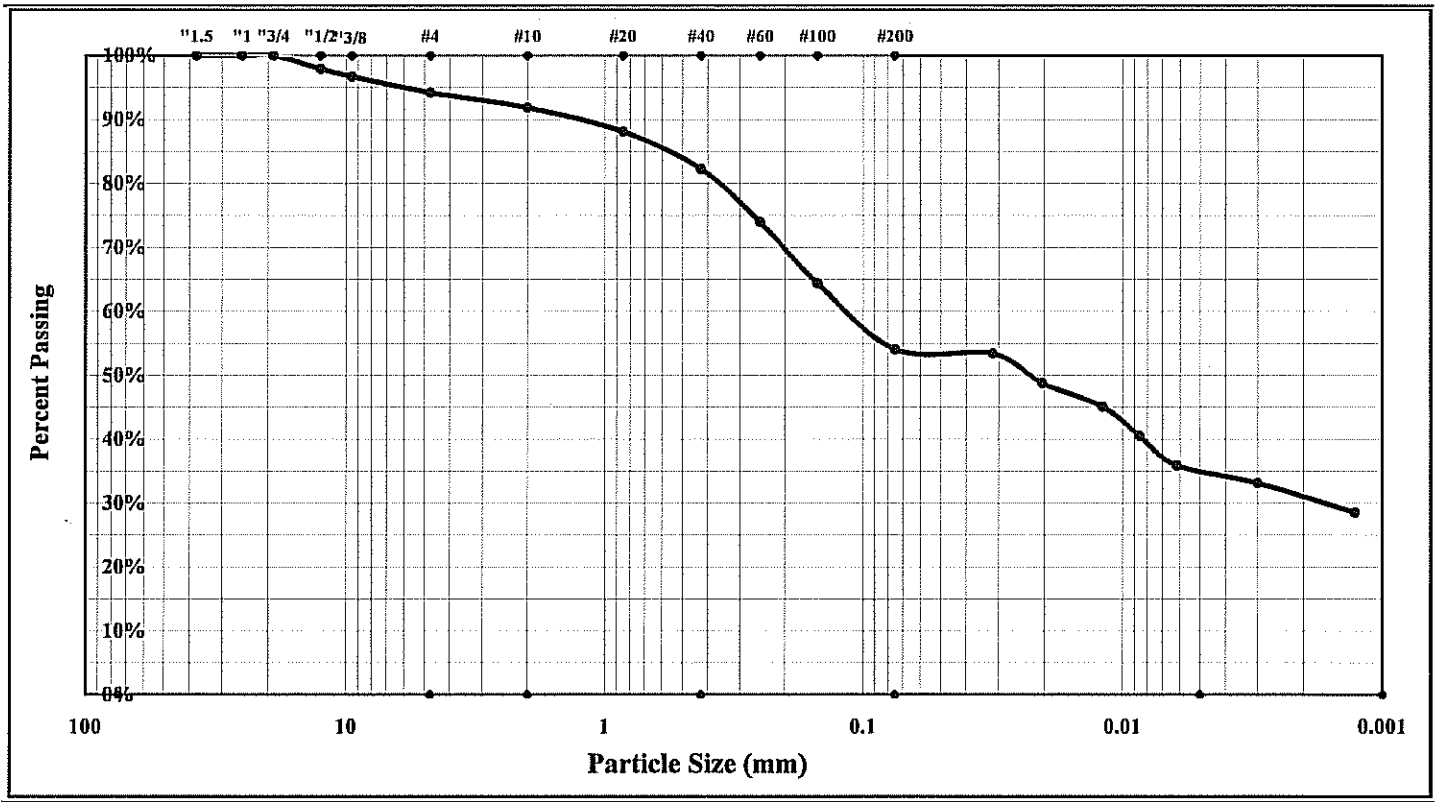
# Particle Size Analysis of Soils

*ASTM D422*

***Quality Assurance***

**S&ME, Inc. ~ 9751 Southern Pine Boulevard ~ Charlotte, NC 28273**

| | | | |
|---|---|---|---|
| S&ME Project #: | 1411-09-084 | Report Date: | 12/11/09 |
| Project Name: | Progress Energy Asheville 1964 Ash Dike | Test Date(s): | 12/4-11/09 |
| Client Name: | Progress Energy Carolinas | | |
| Address: | | | |
| Boring #: | B-6 & B-8 | Sample #: Composite | Sample Date: |
| Location: | | Offset: | Elevation: |
| Sample Description: | Red Brown Fine to Medium Sandy Silty Clay (CL) with Mica | | |




| | | | |
|---|---|---|---|
| Cobbles | < 300 mm (12") and > 75 mm (3") | Fine Sand | < 0.425 mm and > 0.075 mm (#200) |
| Gravel | < 75 mm and > 4.75 mm (#4) | Silt | < 0.075 and > 0.005 mm |
| Coarse Sand | < 4.75 mm and >2.00 mm (#10) | Clay | < 0.005 mm |
| Medium Sand | < 2.00 mm and > 0.425 mm (#40) | Colloids | < 0.001 mm |

| | | | | | |
|---|---|---|---|---|---|
| Maximum Particle Size: | | Gravel: | 5.8% | Silt | 19.0% |
| Silt & Clay (% Passing #200): | 54.0% | Total Sand: | 40.2% | Clay | 35.0% |
| ent Relative Density (Assumed) | 2.700 | Moisture Content | | Colloids | |
| Liquid Limit | 43 | Plastic Limit | 22 | Plastic Index | 21 |
| Coarse Sand: | 2.3% | Medium Sand: | 9.6% | Fine Sand: | 28.2% |

Description of Sand and Gravel Rounded ☐ Angular ☐ Hard & Durable ☐ Soft ☐ Weathered & Friable ☐

Apparatus B: Air Jet Dispersion Dispersion Period: 1 min. Dispersing Agent: Sodium Hexametaphosphate: 40 g./ Liter

***References / Comments / Deviations:*** ASTM D 4318, D 2487

Daniel McGough

*Technical Responsibility* *Signature* *Position* *Date*

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*Form No. TR-D4318-T89-90* *Client code* *Client Test #* *state #*

*Revision No. 0*

*Revision Date: 11/20/07*

# Liquid Limit, Plastic Limit, and Plastic Index

S&ME

*Another code* *ASTM D 4318* ☒ *AASHTO T 89* ☐ *AASHTO T 90* ☐ ***Quality Assurance***

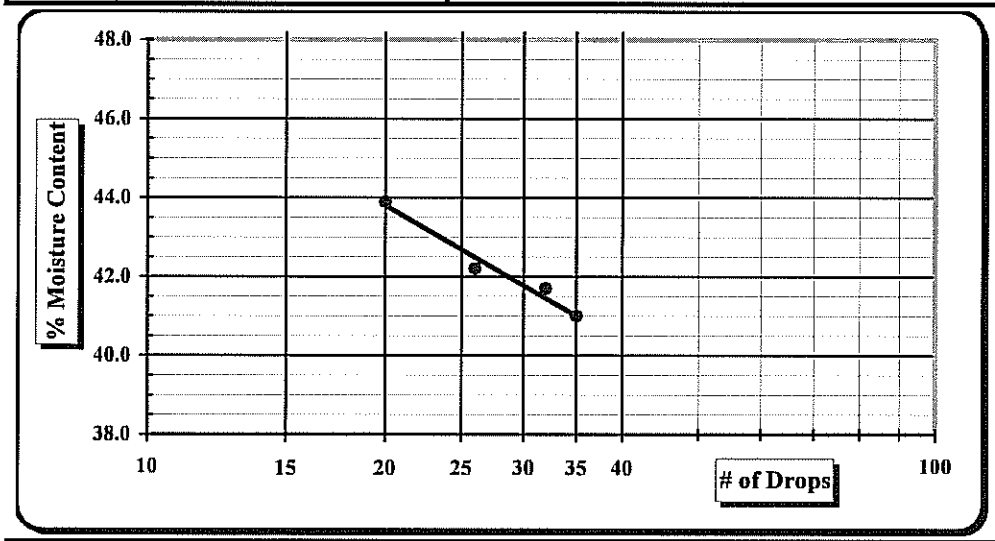
**S&ME, Inc. ~ 9751 Southern Pine Boulevard ~ Charlotte, NC 28273**

| | | | |
|---|---|---|---|
| **Project #:** | **1411-09-084** | Report Date: | 12/11/09 |
| Project Name: | Progress Energy Asheville 1964 Ash Dike | Test Date(s) | 12/4-11/09 |
| Client Name: | Progress Energy Carolinas | | |
| Client Address: | | | |

| | | | | | |
|---|---|---|---|---|---|
| Boring #: | B-6 & B-8 | Sample #: Composite | | Sample Date: | |
| Location: | | Offset: | | Elevation: | |
| Sample Description: | Red Brown Fine to Medium Sandy Silty Clay (CL) with Mica | | | | |

| *Type and Specification* | *S&ME ID #* | *Cal Date:* | *Type and Specification* | *S&ME ID #* | *Cal Date:* |
|---|---|---|---|---|---|
| Balance (0.01 g) | | | Grooving tool | | |
| LL Apparatus | | | Grooving tool | | |
| Oven | | | Grooving tool | | |

| *Pan #* | | Liquid Limit | | | | | | Plastic Limit | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tare #: | 29 | 48 | 39 | 11 | | | * | 33 | |
| A | Tare Weight | 14.14 | 13.99 | 13.98 | 13.86 | | | 15.51 | 15.90 | |
| B | Wet Soil Weight + A | 25.59 | 25.45 | 26.12 | 26.31 | | | 21.77 | 21.94 | |
| C | Dry Soil Weight + A | 22.26 | 22.08 | 22.52 | 22.51 | | | 20.66 | 20.87 | |
| D | Water Weight (B-C) | 3.33 | 3.37 | 3.60 | 3.80 | | | 1.11 | 1.07 | |
| E | Dry Soil Weight (C-A) | 8.12 | 8.09 | 8.54 | 8.65 | | | 5.15 | 4.97 | |
| **F** | % Moisture (D/E)*100 | 41.0% | 41.7% | 42.2% | 43.9% | | | 21.6% | 21.5% | |
| N | # OF DROPS | 35 | 32 | 26 | 20 | | | *Moisture Contents determined by ASTM D 2216* | | |
| LL | LL = **F** * FACTOR | | | | | | | | | |
| *Ave.* | *Average* | | | | | | | **21.6%** | | |




One Point Liquid Limit

| N | Factor | N | Factor |
|---|---|---|---|
| 20 | 0.974 | 26 | 1.005 |
| 21 | 0.979 | 27 | 1.009 |
| 22 | 0.985 | 28 | 1.014 |
| 23 | 0.99 | 29 | 1.018 |
| 24 | 0.995 | 30 | 1.022 |
| 25 | 1.000 | | |

| | |
|---|---|
| NP, Non-Plastic | ☐ |
| Liquid Limit | **43** |
| Plastic Limit | **22** |
| Plastic Index | 21 |
| Group Symbol | **CL** |
| Multipoint Method | ☑ |
| One-point Method | ☐ |

Wet Preparation ☐ Dry Preparation ☑ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:*

***Notes / Deviations / References:***

*ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils*

| Jennifer Olsen | 12/11/2009 | Daniel McGough | |
|---|---|---|---|
| *Technician Name* | *Date* | *Technical Responsibility* | *Date* |

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*Form No. TR-D698-2*
*Revision No. : 0*
*Revision Date: 11/21/07*

# Moisture - Density Report

S&ME

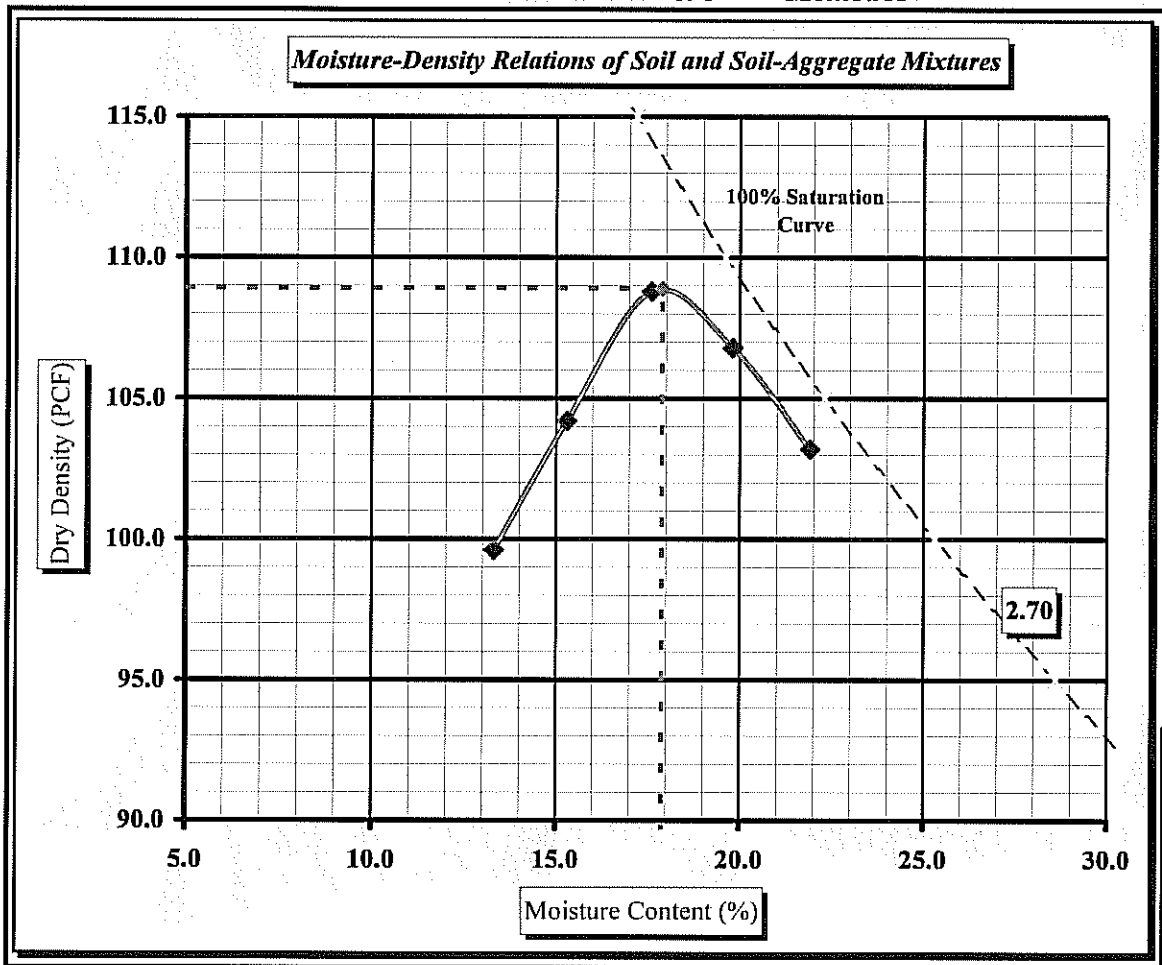
*Quality Assurance*

**S&ME, Inc. ~ 9751 Southern Pine Boulevard ~ Charlotte, NC 28273**

| | | | |
|---|---|---|---|
| S&ME Project #: | **1411-09-084** | Report Date: | 12/11/09 |
| Project Name: | Progress Energy Asheville 1964 Ash Dike | Test Date(s): | 12/9-11/09 |
| Client Name: | Progress Energy Carolinas | | |
| Client Address: | | | |
| Boring #: | B-6 & B-8 | Sample #: Composite | Sample Date: |
| Location: | | Offset: | Depth: |
| Sample Description: | Red Brown Fine to Medium Sandy Silty Clay (CL) with Mica | | |

**Maximum Dry Density 108.9 PCF.** **Optimum Moisture Content 17.9%**

***ASTM D 698 -- Method A***




***Soil Properties***

| | |
|---|---|
| *Natural Moisture Content* | |
| *Specific Gravity of Soil (D854)* | |
| *Liquid Limit* | **43** |
| *Plastic Limit* | **22** |
| *Plastic Index* | **21** |

***% Passing***

| | |
|---|---|
| *3/4"* | |
| *3/8"* | |
| *#4* | 94.2% |
| *#10* | |
| *#40* | |
| *#60* | |
| *#200* | |

***Oversize Fraction***

| | |
|---|---|
| *Bulk Gravity* | |
| *% Moisture* | |
| *% Oversize* | |
| ***MDD*** | |
| ***Opt. MC*** | |

Moisture-Density Curve Displayed: Fine Fraction ☒ Corrected for Oversize Fraction (ASTM D 4718) ☐

Sieve Size used to separate the Oversize Fraction: #4 Sieve ☒ 3/8 inch Sieve ☐ 3/4 inch Sieve ☐

Mechanical Rammer ☒ Manual Rammer ☐ Moist Preparation ☐ Dry Preparation ☒

***References / Comments / Deviations:***

ASTM D 2216: Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D 698: Laboratory Compaction Characteristics of Soil Using Standard Effort

Daniel McGough
*Technical Responsibility* *Signature* *Position* *Date*

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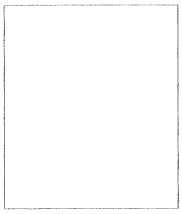
# Effective Stress Triaxial Compression

## Consolidated Undrained

***Sample details***

***Sketch showing specimen location in original Sample***



| | | | |
|---|---|---|---|
| Depth | B-1A=8.5-10 ft.; B-2=12-14 ft. | | |
| Description: | B-1A ST-1=Brown Clayey SAND (SC-CL); B-2 ST-1=Brown Silty SAND (SM) | | |
| | Specimen 1 | Specimen 2 | Specimen 3 |
| Type | Undisturbed | Undisturbed | Undisturbed |
| Height $H_0$ (in) | 5.813 | 5.854 | 5.888 |
| Diameter $D_0$ (in) | 2.861 | 2.854 | 2.869 |
| Weight $W_0$ (gr) | 1217.8 | 1202.6 | 1246.4 |
| Bulk Density $\rho$ (PCF) | 124.14 | 122.33 | 124.74 |
| Particle Density $\rho_s$ | 2.751 (measured) | 2.751 (measured) | 2.751 (measured) |

***Initial Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Cell Pressure $\sigma_3$ (lbf/in2) | 3.8 | 7.8 | 15.8 |
| Pore Pressure u (lbf/in2) | 0.0 | 0.0 | 0.0 |
| Machine Speed $d_r$(in/min) | 0.0383 | 0.021 | 0.0116 |
| No. of Membranes | 1 | 1 | 1 |
| Total Thickness (in) | 0.025 | 0.025 | 0.025 |
| Strain Channel | 1798 | 1798 | 1798 |
| Load Channel | 1776 | 1776 | 1776 |
| Pore P. Channel | 1779 | 1779 | 1779 |
| Volume Channel | Volume Chang | Volume Chang | Volume Chang |
| Moisture Content $w_0$% | 22.3 | 26.5 | 24.6 |
| Dry Density $\rho_{d0}$ (PCF) | 101.47 | 96.69 | 100.10 |
| Voids Ratio $e_0$ | 0.69 | 0.78 | 0.71 |
| Deg of Saturation $S_0$% | 88.86 | 94.09 | 94.72 |
| Final B Value | 0.96 | 0.95 | 0.95 |

***Final Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Moisture Content $w_f$% | 23.2 | 27.5 | 23.0 |
| Dry Density $\rho_d$ (PCF) | 103.06 | 99.02 | 103.83 |
| Voids Ratio $e_f$ | 0.67 | 0.73 | 0.65 |
| Deg of Saturation $S_f$% | 95.85 | 100.00 | 96.80 |
| Failure Criteria | Mx Stress Ratio | Mx Stress Ratio | Mx Stress Ratio |
| Axial Strain $\varepsilon_f$% | 1.9 | 1.9 | 4.4 |
| Corr Dev Stress $(\sigma_1 - \sigma_3)f$ (lbf/in2) | 14.1 | 22.2 | 26.5 |
| Minor Stress $\sigma_{3f}$ (lbf/in2) | 0.3 | 3.5 | 4.6 |
| Major Stress $\sigma_{1f}$ (lbf/in2) | 14.4 | 25.7 | 31.1 |
| Stress Ratio $(\sigma_1/\sigma_3)_f$ | 48.0 | 7.3 | 6.8 |
| Notes: | Specimen #1 from B-1A ST-1 | | |

***Failure Sketch***

Sp 1 Sp 2

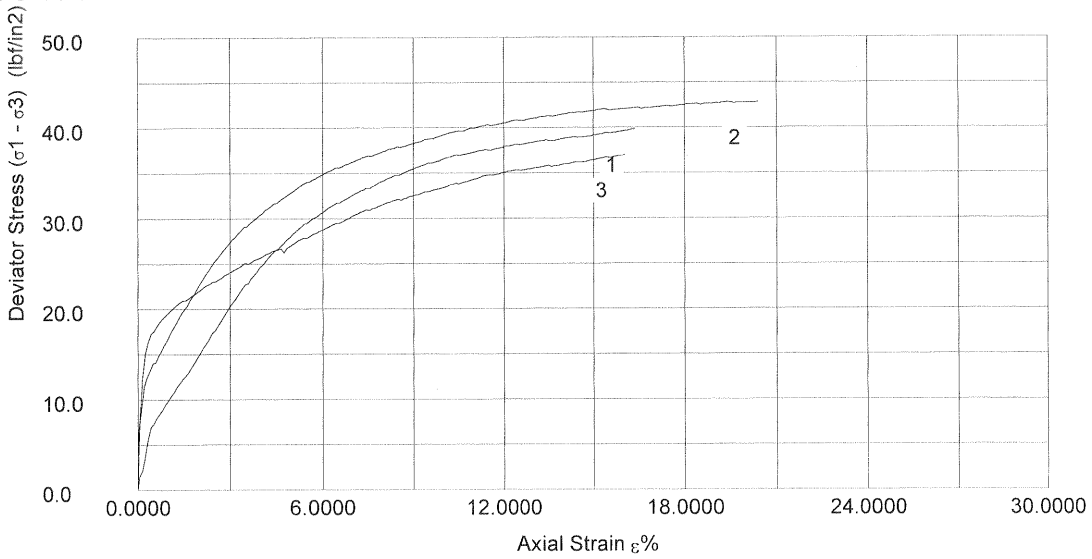
Sp 3

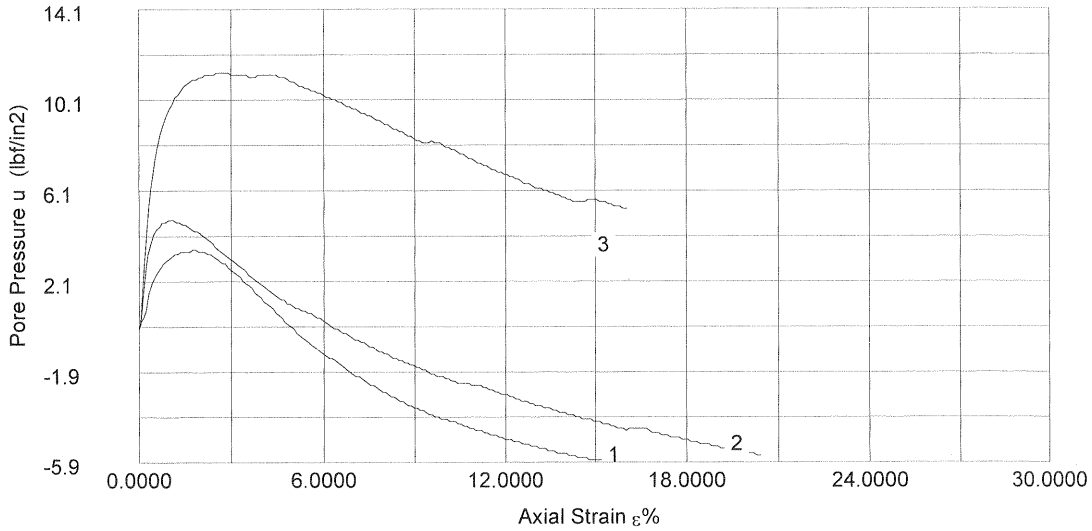
***Surface Inclination***

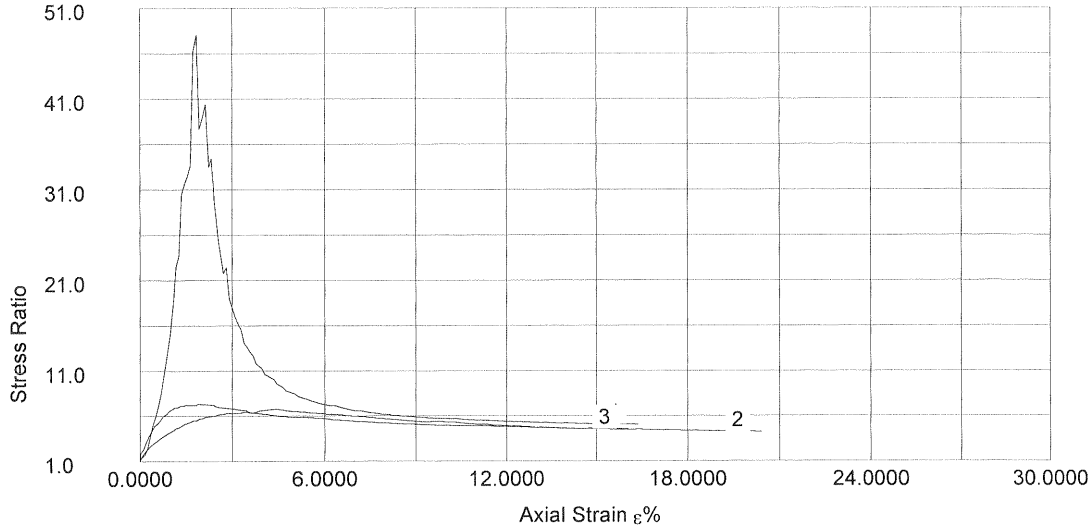
| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-16-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\109084.JOB | Borehole: | B-1A & B-2 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



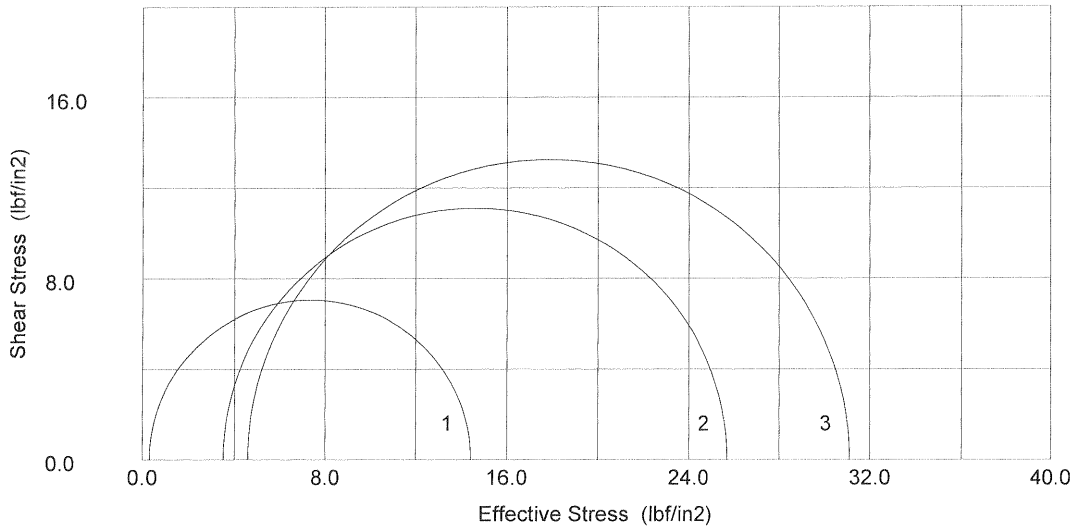



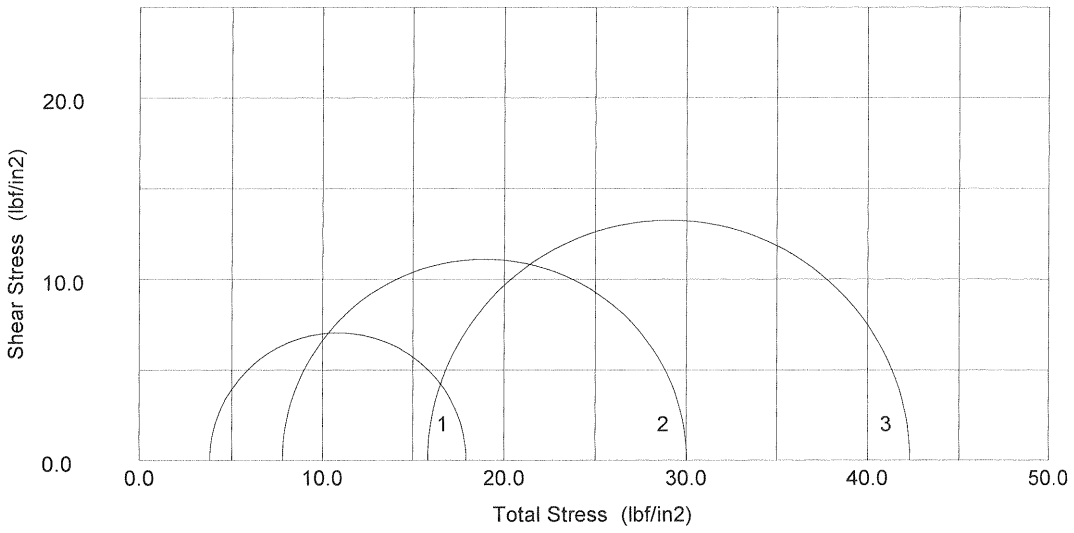




| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-16-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\109084.JOB | Borehole: | B-1A & B-2 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

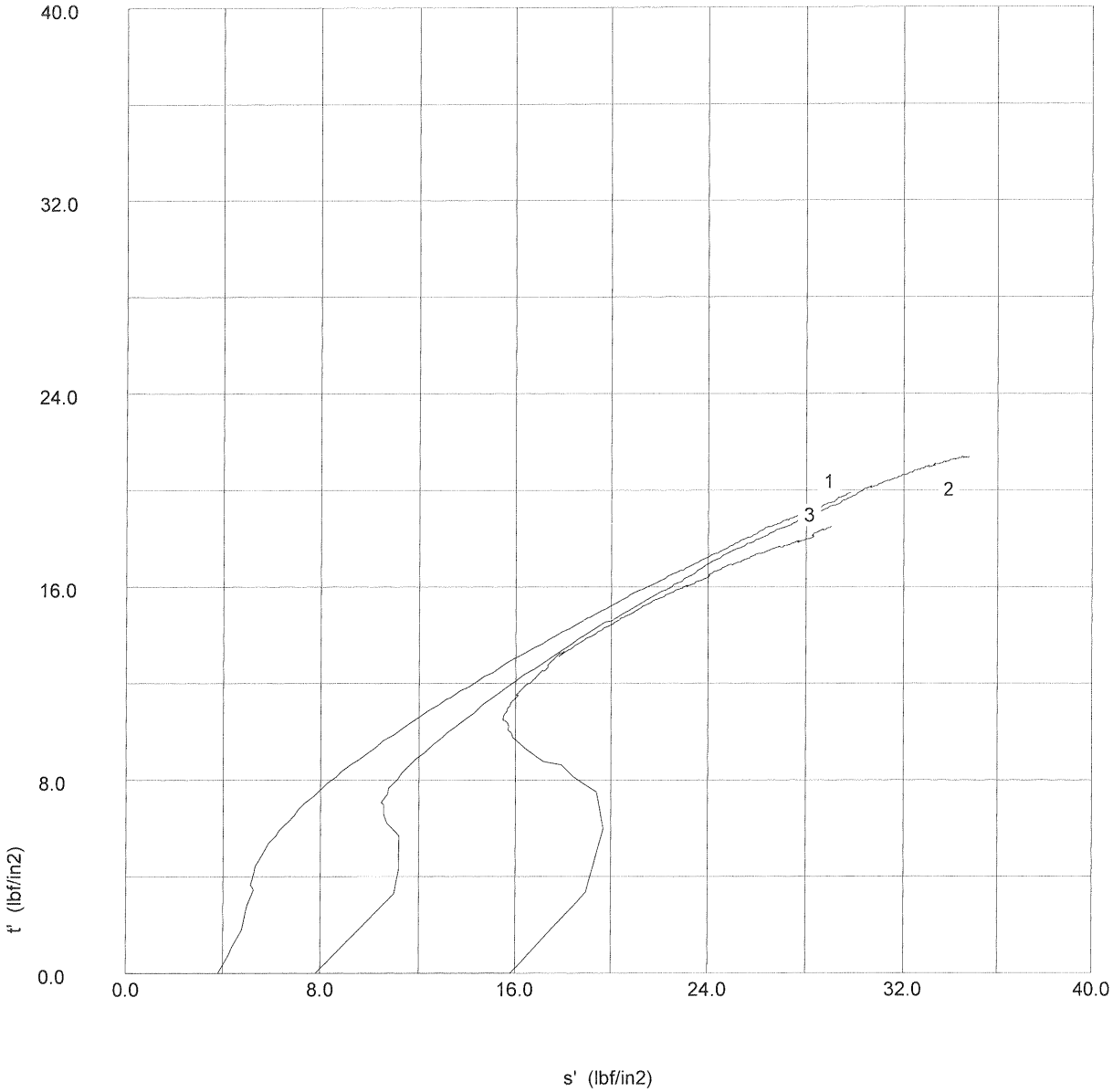



| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-16-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\109084.JOB | Borehole: | B-1A & B-2 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



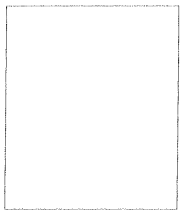

| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name: CU Triaxial (SS, MS) | |
| | | Date of Test: 11-16-09 | |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: ST-1 | |
| | Jobfile: E:\109084.JOB | Borehole: B-1A & B-2 | |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

***Sample details***

***Sketch showing specimen location in original Sample***



Depth 20 - 22 ft.
Description: Brown Silty SAND (SM-ML)

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Type | Undisturbed | Undisturbed | Undisturbed |
| Height $H_0$ (in) | 5.965 | 5.964 | 5.909 |
| Diameter $D_0$ (in) | 2.867 | 2.872 | 2.866 |
| Weight $W_0$ (gr) | 1202.8 | 1271 | 1231.5 |
| Bulk Density $\rho$ (PCF) | 118.99 | 125.32 | 123.07 |
| Particle Density $\rho_s$ | 2.674 (measured) | 2.674 (measured) | 2.674 (measured) |

***Initial Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Cell Pressure $\sigma_3$ (lbf/in2) | 15.0 | 25.2 | 40.1 |
| Pore Pressure u (lbf/in2) | 0.0 | 0.0 | 0.0 |
| Machine Speed $d_r$(in/min) | 0.0276 | 0.0275 | 0.0177 |
| No. of Membranes | 1 | 1 | 1 |
| Total Thickness (in) | 0.025 | 0.025 | 0.025 |
| Strain Channel | 1798 | 1798 | 1798 |
| Load Channel | 1776 | 1776 | 1776 |
| Pore P. Channel | 1779 | 1779 | 1779 |
| Volume Channel | Volume Chang | Volume Chang | Volume Chang |
| Moisture Content $w_0$% | 24.8 | 26.3 | 25.5 |
| Dry Density $\rho_{d0}$ (PCF) | 95.38 | 99.22 | 98.03 |
| Voids Ratio $e_0$ | 0.75 | 0.68 | 0.70 |
| Deg of Saturation $S_0$% | 88.33 | 100.00 | 97.28 |
| Final B Value | 0.96 | 0.98 | 0.99 |

***Final Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Moisture Content $w_f$% | 27.1 | 31.7 | 23.1 |
| Dry Density $\rho_d$ (PCF) | 100.58 | 105.18 | 106.18 |
| Voids Ratio $e_f$ | 0.66 | 0.59 | 0.57 |
| Deg of Saturation $S_f$% | 100.00 | 100.00 | 100.00 |
| Failure Criteria | Mx Stress Ratio | Mx Stress Ratio | Mx Stress Ratio |
| Axial Strain $\varepsilon_f$% | 4.4 | 4.6 | 8.1 |
| Corr Dev Stress $(\sigma_1 - \sigma_3)f$ (lbf/in2) | 25.9 | 37.0 | 55.6 |
| Minor Stress $\sigma_{3f}$ (lbf/in2) | 5.7 | 10.4 | 17.3 |
| Major Stress $\sigma_{1f}$ (lbf/in2) | 31.6 | 47.4 | 72.9 |
| Stress Ratio $(\sigma_1/\sigma_3)_f$ | 5.5 | 4.6 | 4.2 |

Notes:

***Failure Sketch***

Sp 1 Sp 2

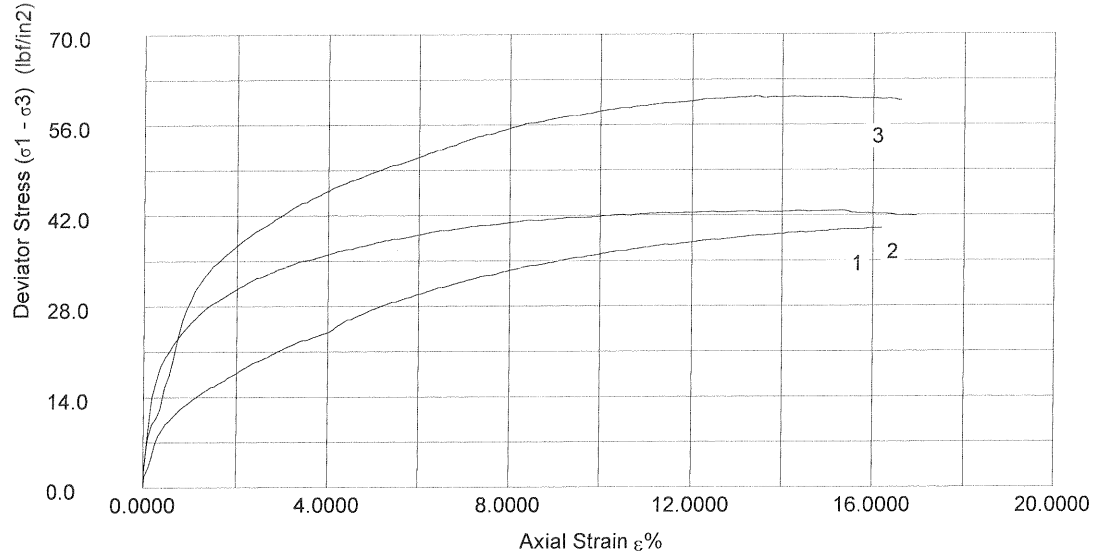
Sp 3

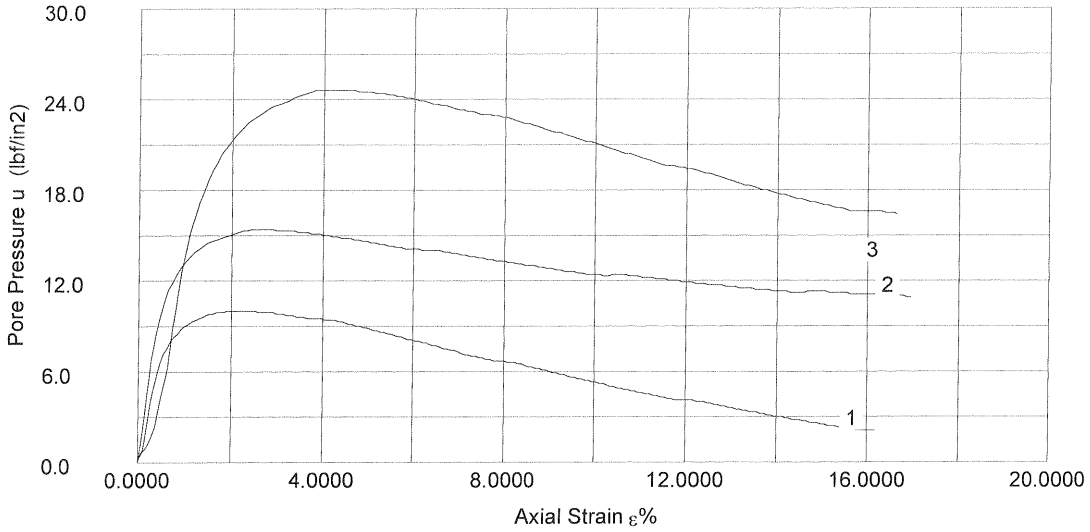
***Surface Inclination***

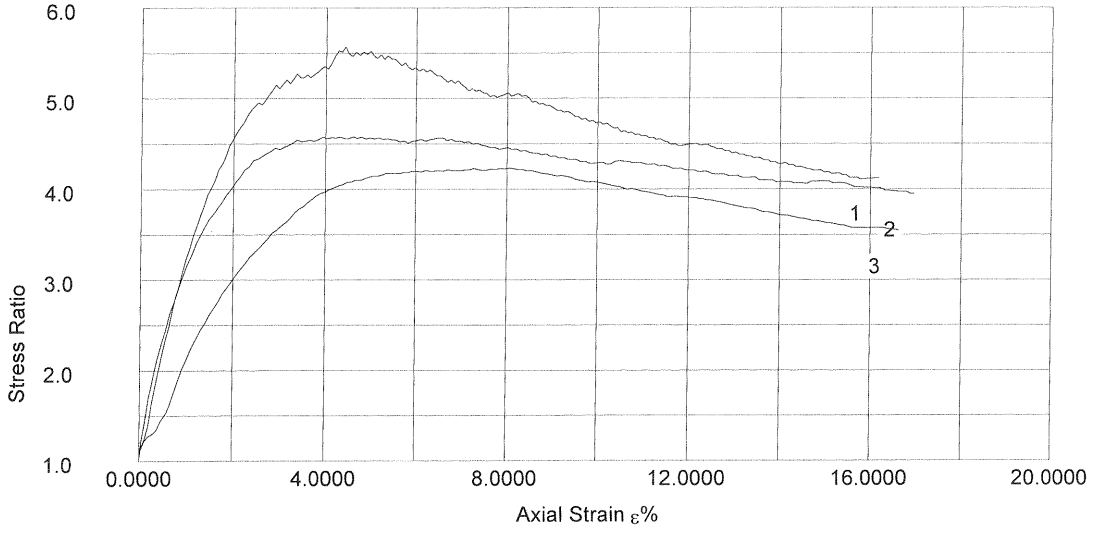
| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-16-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-2 |
| | Jobfile: E:\109084.JOB | Borehole: | B-2 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



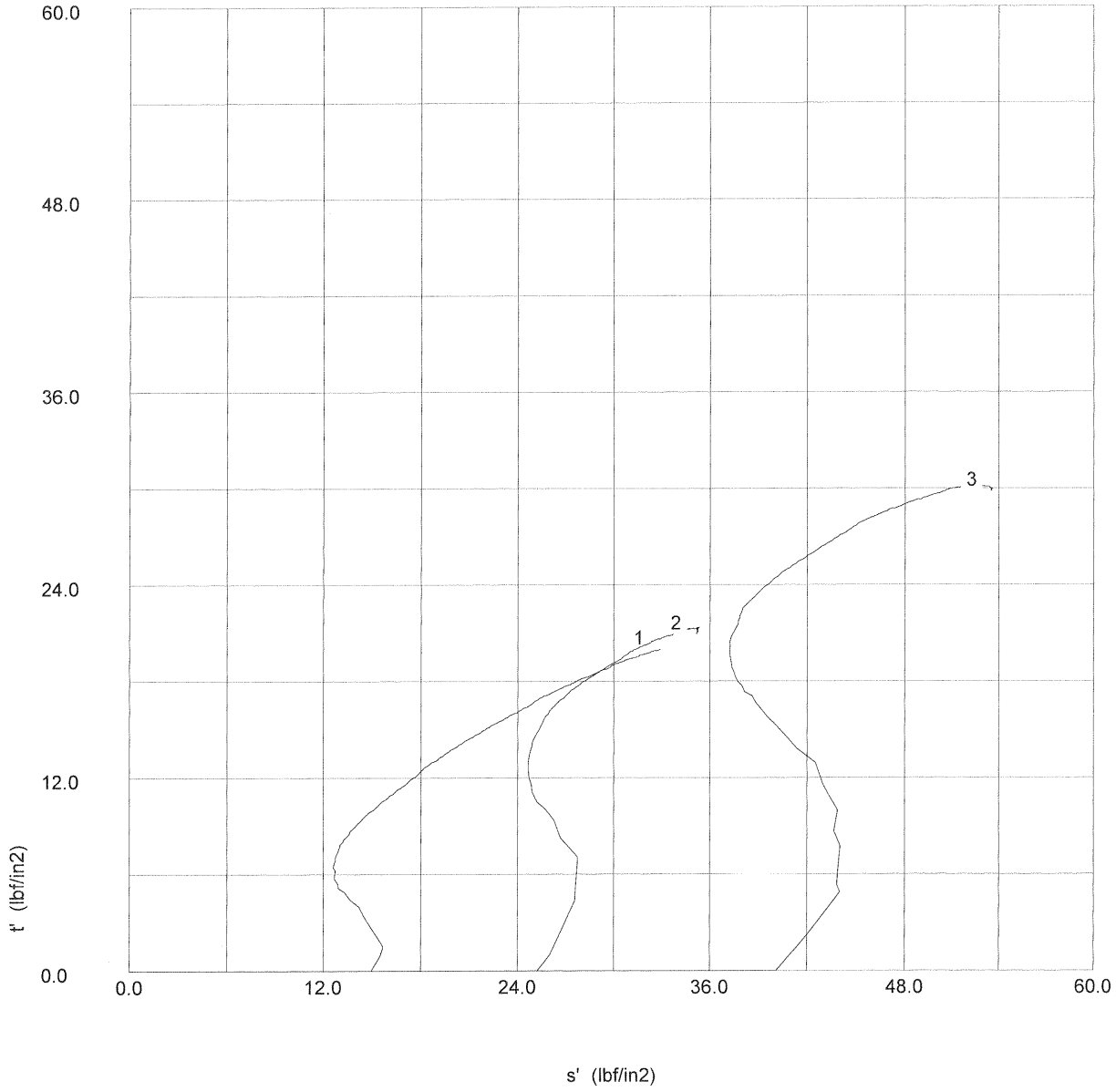




| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-16-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-2 |
| | Jobfile: E:\109084.JOB | Borehole: | B-2 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

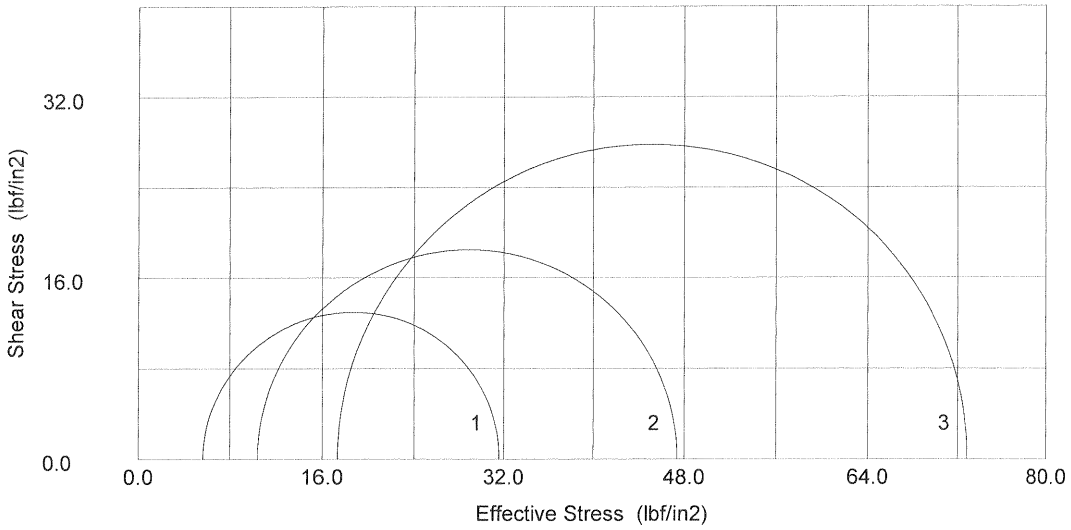
## Consolidated Undrained

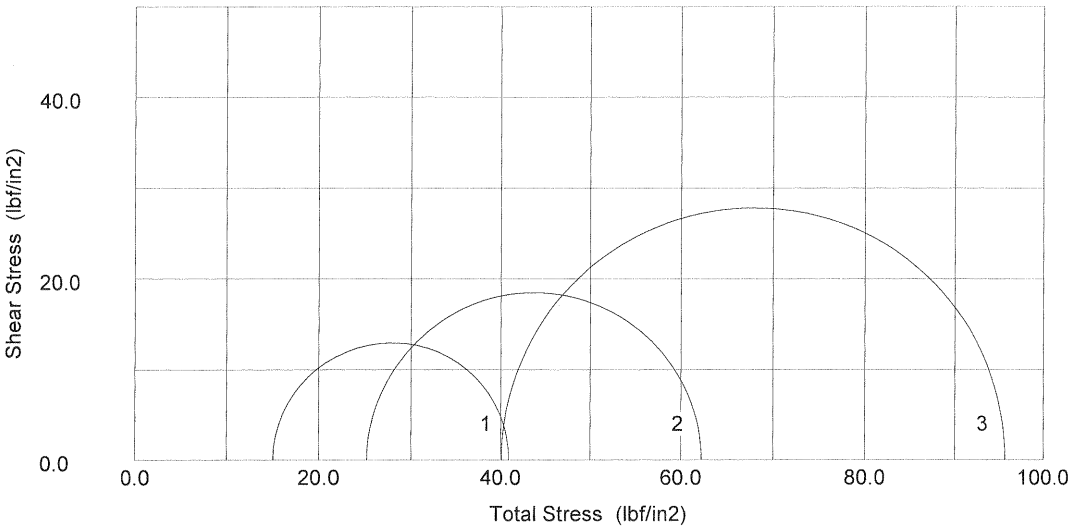



| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-16-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-2 |
| | Jobfile: E:\109084.JOB | Borehole: | B-2 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



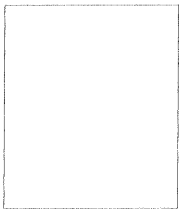

| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-16-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-2 |
| | Jobfile: E:\109084.JOB | Borehole: | B-2 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

***Sample details***

***Sketch showing specimen location in original Sample***



Depth 65.5 - 67.5 ft.
Description: Red-Brown Sandy SILT (ML)

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Type | Undisturbed | Undisturbed | Undisturbed |
| Height $H_0$ (in) | 6.046 | 5.814 | 6.021 |
| Diameter $D_0$ (in) | 2.872 | 2.868 | 2.878 |
| Weight $W_0$ (gr) | 1205.1 | 1162.4 | 1223.3 |
| Bulk Density $\rho$ (PCF) | 117.21 | 117.90 | 118.98 |
| Particle Density $\rho_s$ | 2.697 (measured) | 2.697 (measured) | 2.697 (measured) |

***Initial Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Cell Pressure $\sigma_3$ (lbf/in2) | 10.0 | 25.1 | 40.2 |
| Pore Pressure u (lbf/in2) | 0.0 | 0.0 | 0.0 |
| Machine Speed $d_r$(in/min) | 0.016 | 0.0209 | 0.0263 |
| No. of Membranes | 1 | 1 | 1 |
| Total Thickness (in) | 0.025 | 0.025 | 0.025 |
| Strain Channel | 1798 | 1798 | 1798 |
| Load Channel | 1776 | 1776 | 1776 |
| Pore P. Channel | 1779 | 1779 | 1779 |
| Volume Channel | Volume Chang | Volume Chang | Volume Chang |
| Moisture Content $w_0$% | 29.6 | 31.1 | 29.9 |
| Dry Density $\rho_{d0}$ (PCF) | 90.42 | 89.96 | 91.61 |
| Voids Ratio $e_0$ | 0.86 | 0.87 | 0.84 |
| Deg of Saturation $S_0$% | 92.79 | 96.19 | 96.26 |
| Final B Value | 0.98 | 0.99 | 0.99 |

***Final Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Moisture Content $w_f$% | 32.1 | 32.8 | 29.0 |
| Dry Density $\rho_d$ (PCF) | 91.78 | 94.26 | 97.48 |
| Voids Ratio $e_f$ | 0.83 | 0.79 | 0.73 |
| Deg of Saturation $S_f$% | 100.00 | 100.00 | 100.00 |
| Failure Criteria | Mx Stress Ratio | Mx Stress Ratio | Mx Stress Ratio |
| Axial Strain $\varepsilon_f$% | 2.0 | 3.0 | 3.9 |
| Corr Dev Stress $(\sigma_1 - \sigma_3)f$ (lbf/in2) | 17.9 | 42.2 | 49.2 |
| Minor Stress $\sigma_{3f}$ (lbf/in2) | 2.1 | 11.5 | 14.6 |
| Major Stress $\sigma_{1f}$ (lbf/in2) | 20.0 | 53.7 | 63.8 |
| Stress Ratio $(\sigma_1/\sigma_3)_f$ | 9.5 | 4.7 | 4.4 |

Notes:

***Failure Sketch***

Sp 1 Sp 2

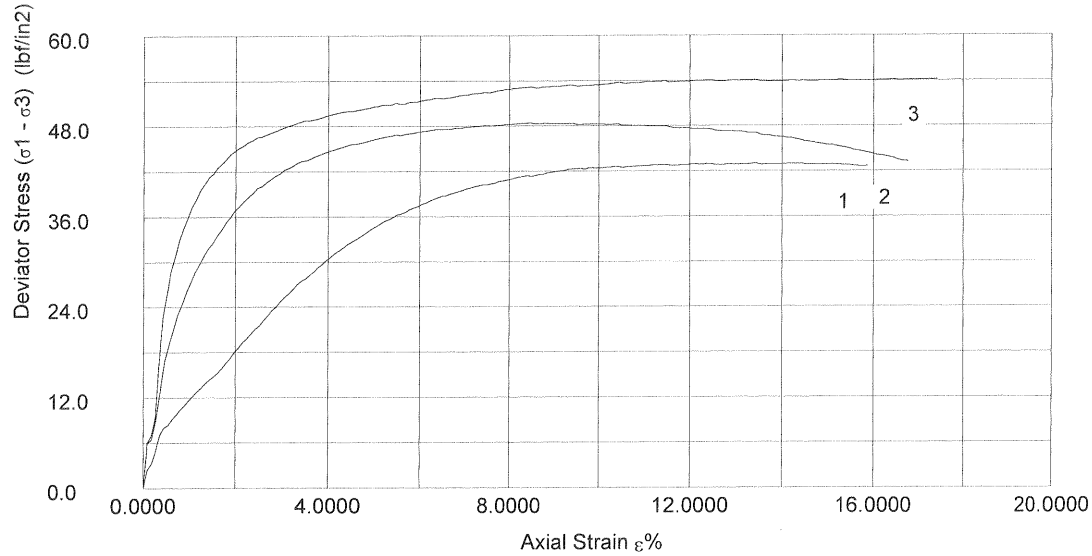
Sp 3

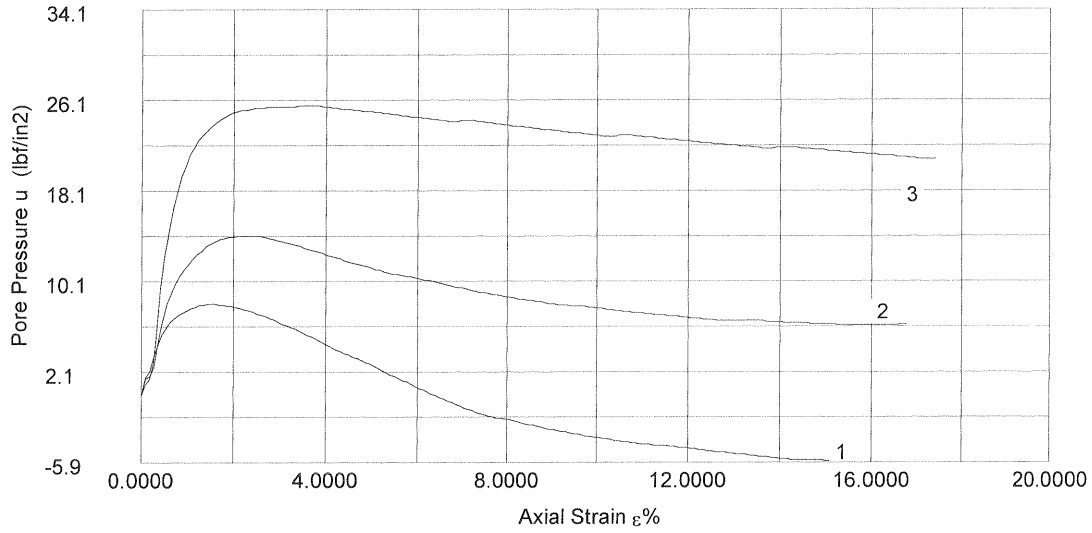
***Surface Inclination***

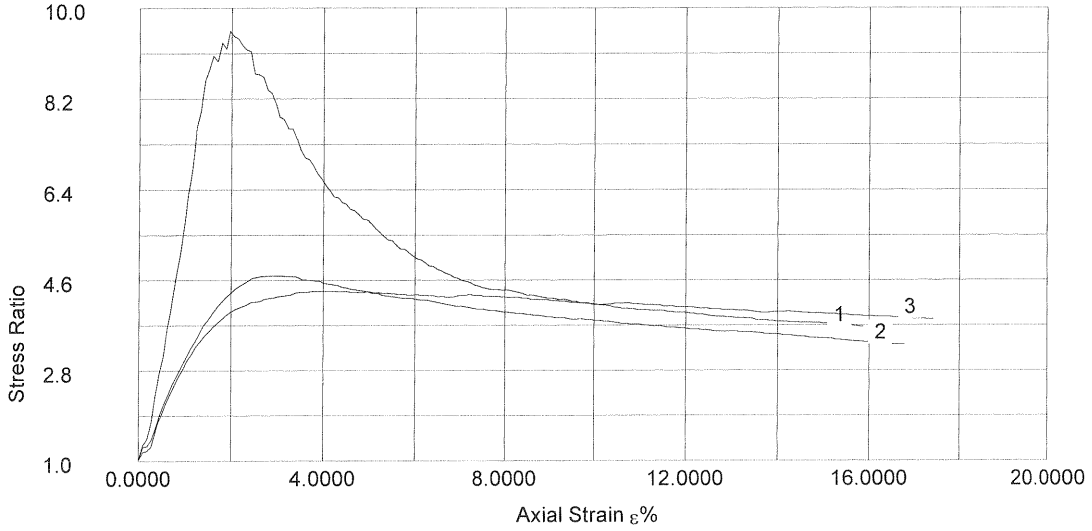
| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-17-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\109084.JOB | Borehole: | B-5 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



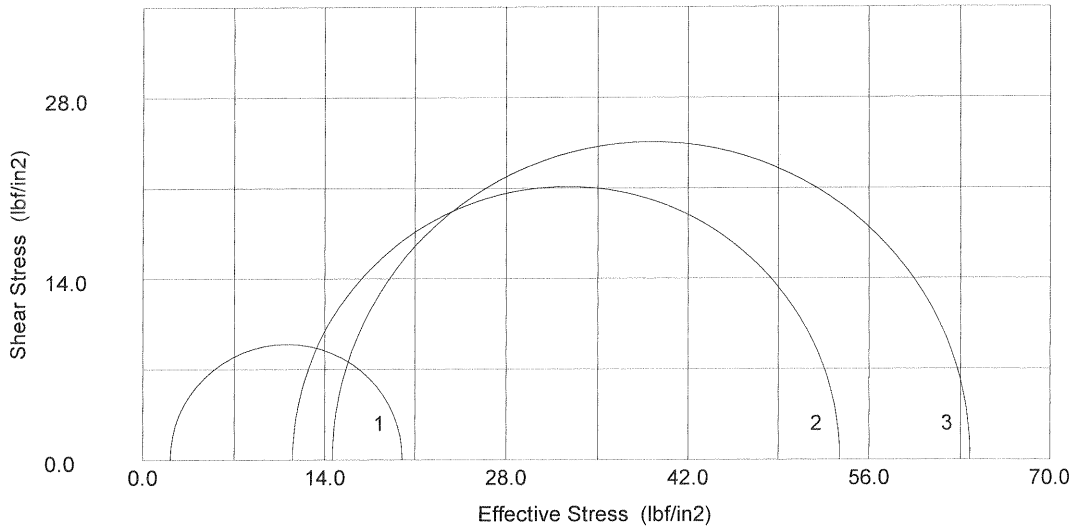



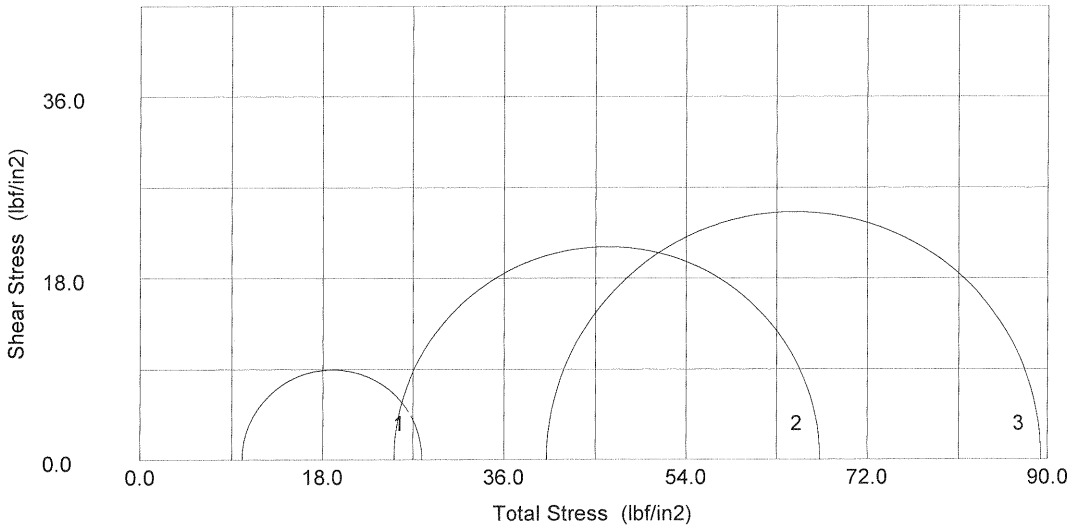




| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-17-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\109084.JOB | Borehole: | B-5 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

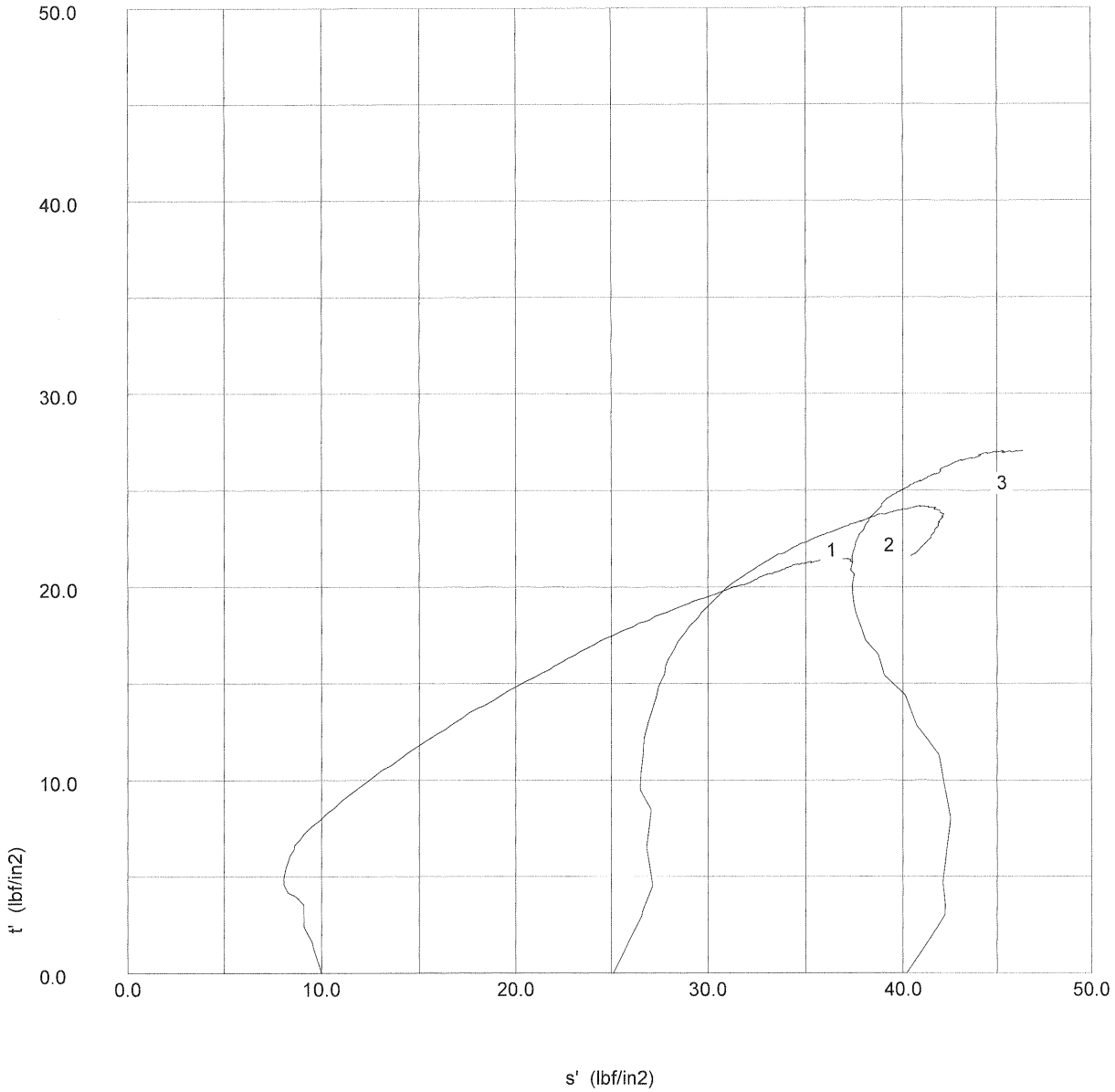



| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-17-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\109084.JOB | Borehole: | B-5 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



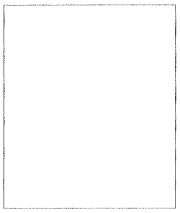

| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name: CU Triaxial (SS, MS) | |
| | | Date of Test: 11-17-09 | |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: ST-1 | |
| | Jobfile: E:\109084.JOB | Borehole: B-5 | |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

***Sample details***

***Sketch showing specimen location in original Sample***



Depth 45.6 - 47.6 ft.
Description: Brown Silty SAND (SM-ML)

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Type | Undisturbed | Undisturbed | Undisturbed |
| Height $H_0$ (in) | 5.073 | 5.933 | 5.896 |
| Diameter $D_0$ (in) | 2.88 | 2.882 | 2.874 |
| Weight $W_0$ (gr) | 1019.2 | 1178 | 1205 |
| Bulk Density $\rho$ (PCF) | 117.49 | 115.95 | 120.02 |
| Particle Density $\rho_s$ | 2.695 (measured) | 2.695 (measured) | 2.695 (measured) |

***Initial Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Cell Pressure $\sigma_3$ (lbf/in2) | 5.1 | 10.3 | 15.0 |
| Pore Pressure u (lbf/in2) | 0.0 | 0.0 | 0.0 |
| Machine Speed $d_r$(in/min) | 0.0201 | 0.0302 | 0.0168 |
| No. of Membranes | 1 | 1 | 1 |
| Total Thickness (in) | 0.025 | 0.025 | 0.025 |
| Strain Channel | 1798 | 1798 | 1798 |
| Load Channel | 1776 | 1776 | 1776 |
| Pore P. Channel | 1779 | 1779 | 1779 |
| Volume Channel | Volume Chang | Volume Chang | Volume Chang |
| Moisture Content $w_0$% | 18.0 | 20.5 | 22.1 |
| Dry Density $\rho_{d0}$ (PCF) | 99.54 | 96.23 | 98.27 |
| Voids Ratio $e_0$ | 0.69 | 0.75 | 0.71 |
| Deg of Saturation $S_0$% | 70.47 | 73.87 | 83.84 |
| Final B Value | 0.96 | 0.98 | 0.98 |

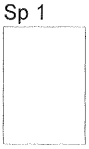
***Final Conditions***

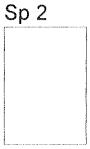
| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Moisture Content $w_f$% | 29.1 | 31.5 | 31.7 |
| Dry Density $\rho_d$ (PCF) | 101.89 | 98.47 | 100.12 |
| Voids Ratio $e_f$ | 0.65 | 0.71 | 0.68 |
| Deg of Saturation $S_f$% | 100.00 | 100.00 | 100.00 |
| Failure Criteria | Mx Stress Ratio | Mx Stress Ratio | Mx Stress Ratio |
| Axial Strain $\varepsilon_f$% | 2.4 | 2.3 | 2.2 |
| Corr Dev Stress $(\sigma_1 - \sigma_3)$f (lbf/in2) | 20.7 | 32.2 | 35.4 |
| Minor Stress $\sigma_{3f}$ (lbf/in2) | 1.5 | 4.9 | 7.6 |
| Major Stress $\sigma_{1f}$ (lbf/in2) | 22.2 | 37.1 | 43.0 |
| Stress Ratio $(\sigma_1/\sigma_3)_f$ | 14.8 | 7.6 | 5.7 |

Notes:

***Failure Sketch***

Sp 1 Sp 2





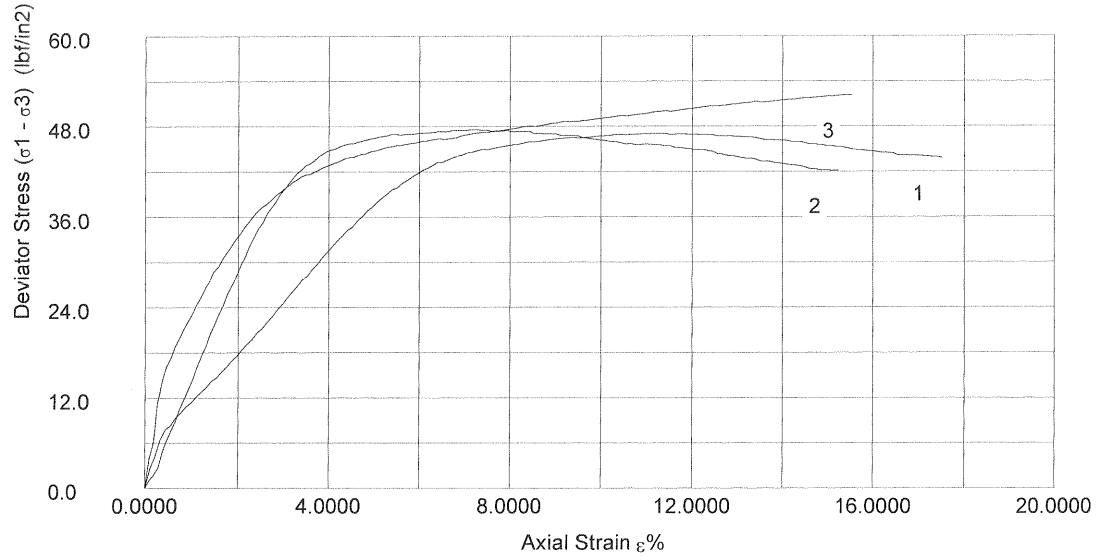
Sp 3

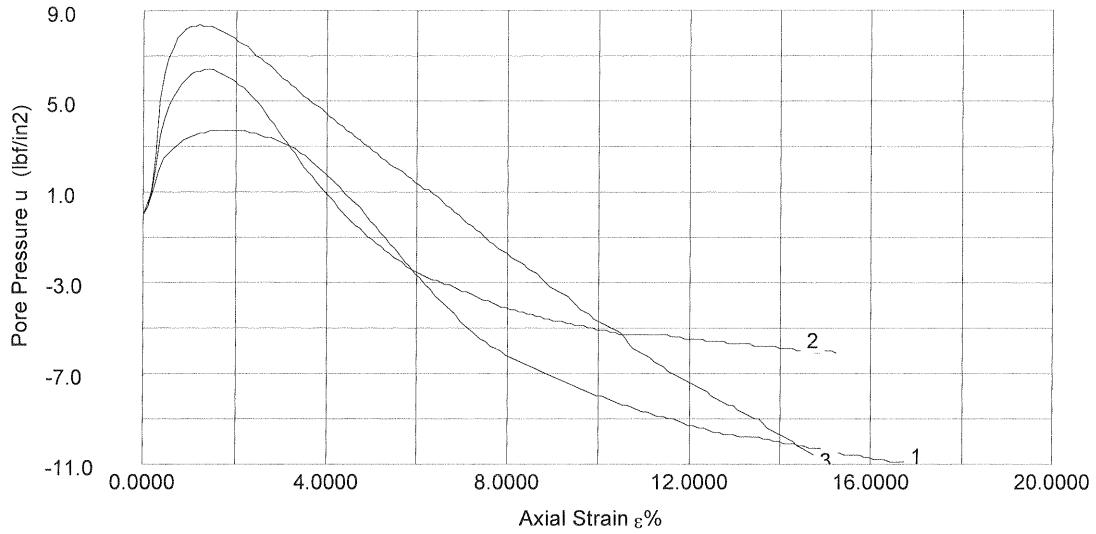
***Surface Inclination***

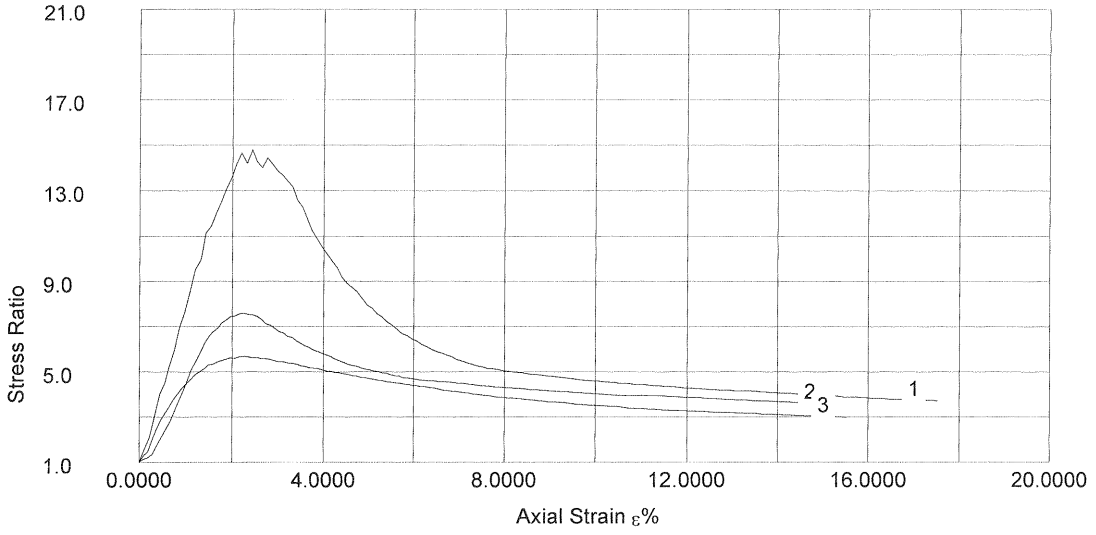
| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-19-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\41109084.JOB | Borehole: | B-7 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



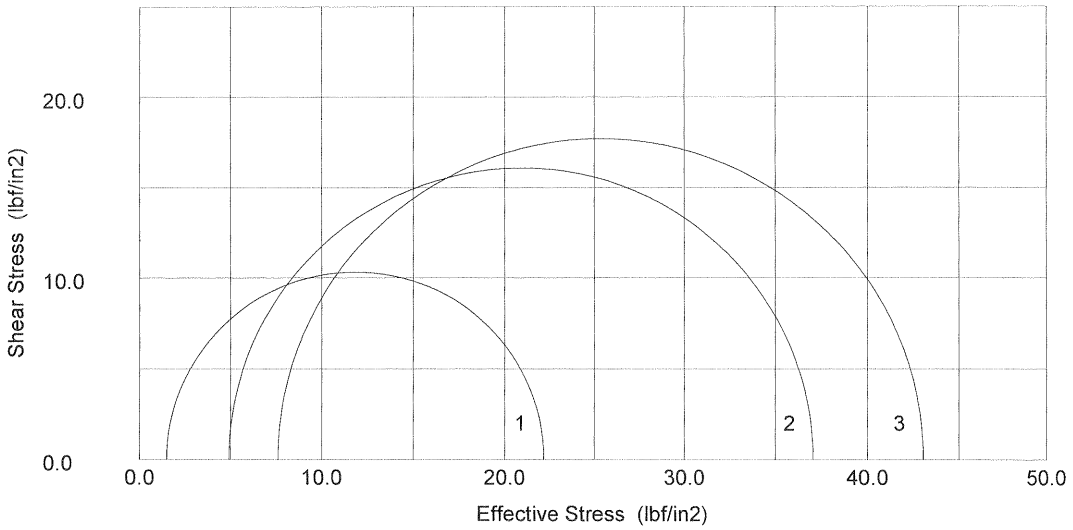



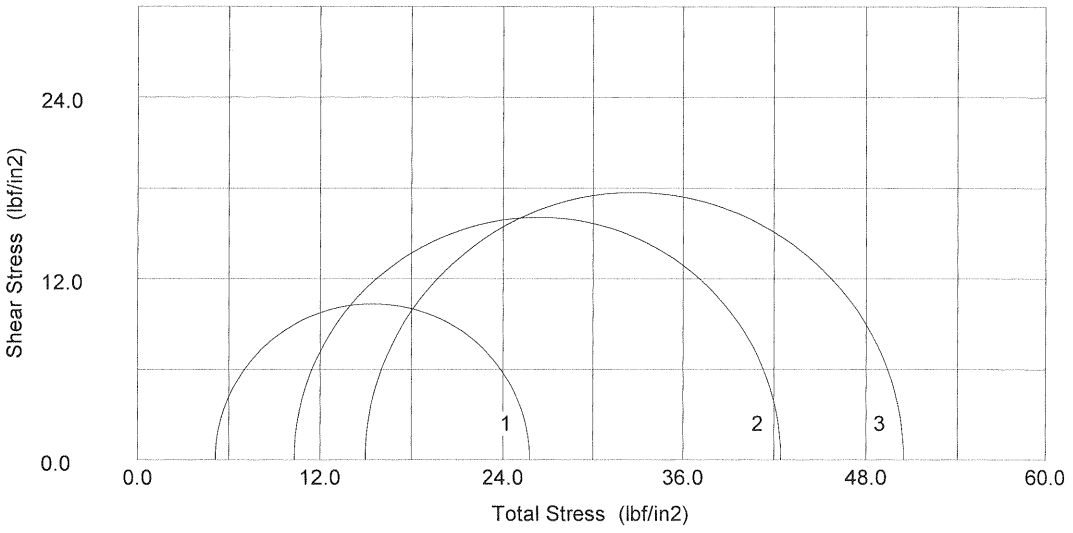




| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-19-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\41109084.JOB | Borehole: | B-7 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

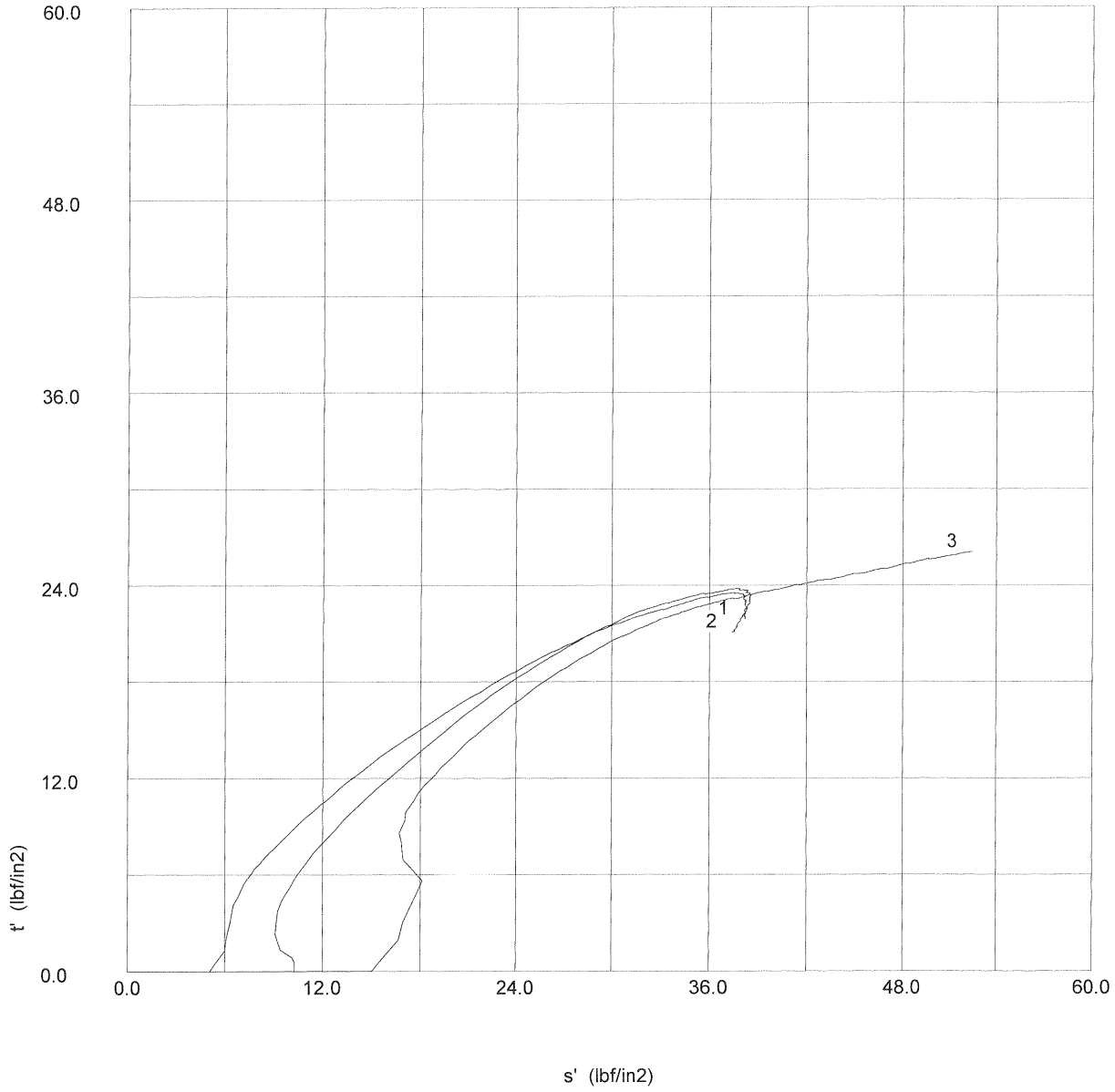



| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-19-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 |
| | Jobfile: E:\41109084.JOB | Borehole: | B-7 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



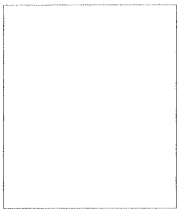

| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name: CU Triaxial (SS, MS) | |
| | | Date of Test: 11-19-09 | |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: ST-1 | |
| | Jobfile: E:\41109084.JOB | Borehole: B-7 | |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

***Sample details***

***Sketch showing specimen location in original Sample***



Depth 55.6 - 57.6 ft.
Description: Tan-Brown Micaceous Silty SAND (SM) w/gravel

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Type | Undisturbed | Undisturbed | Undisturbed |
| Height $H_0$ (in) | 5.813 | 5.982 | 5.838 |
| Diameter $D_0$ (in) | 2.861 | 2.874 | 2.872 |
| Weight $W_0$ (gr) | 1247.8 | 1254.7 | 1215.1 |
| Bulk Density $\rho$ (PCF) | 127.20 | 123.17 | 122.39 |
| Particle Density $\rho_s$ | 2.65 (measured) | 2.65 (measured) | 2.65 (measured) |

***Initial Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Cell Pressure $\sigma_3$ (lbf/in2) | 15.0 | 25.1 | 35.1 |
| Pore Pressure u (lbf/in2) | 0.0 | 0.0 | 0.0 |
| Machine Speed $d_r$(in/min) | 0.016 | 0.0279 | 0.029 |
| No. of Membranes | 1 | 1 | 1 |
| Total Thickness (in) | 0.025 | 0.025 | 0.025 |
| Strain Channel | 1798 | 1798 | 1798 |
| Load Channel | 1776 | 1776 | 1776 |
| Pore P. Channel | 1779 | 1779 | 1779 |
| Volume Channel | Volume Chang | Volume Chang | Volume Chang |
| Moisture Content $w_0$% | 21.3 | 21.6 | 21.4 |
| Dry Density $\rho_{d0}$ (PCF) | 104.84 | 101.33 | 100.80 |
| Voids Ratio $e_0$ | 0.58 | 0.63 | 0.64 |
| Deg of Saturation $S_0$% | 97.90 | 90.40 | 88.65 |
| Final B Value | 0.97 | 0.98 | 0.98 |

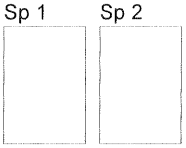
***Final Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 |
|---|---|---|---|
| Moisture Content $w_f$% | 22.8 | 23.6 | 22.8 |
| Dry Density $\rho_d$ (PCF) | 107.28 | 105.35 | 104.66 |
| Voids Ratio $e_f$ | 0.54 | 0.57 | 0.58 |
| Deg of Saturation $S_f$% | 100.00 | 100.00 | 100.00 |
| Failure Criteria | Mx Stress Ratio | Mx Stress Ratio | Mx Stress Ratio |
| Axial Strain $\varepsilon_f$% | 3.2 | 3.7 | 4.4 |
| Corr Dev Stress $(\sigma_1 - \sigma_3)f$ (lbf/in2) | 31.3 | 51.9 | 65.7 |
| Minor Stress $\sigma_{3f}$ (lbf/in2) | 7.3 | 13.8 | 18.3 |
| Major Stress $\sigma_{1f}$ (lbf/in2) | 38.6 | 65.7 | 84.0 |
| Stress Ratio $(\sigma_1/\sigma_3)_f$ | 5.3 | 4.8 | 4.6 |

Notes:

***Failure Sketch***

Sp 1 Sp 2



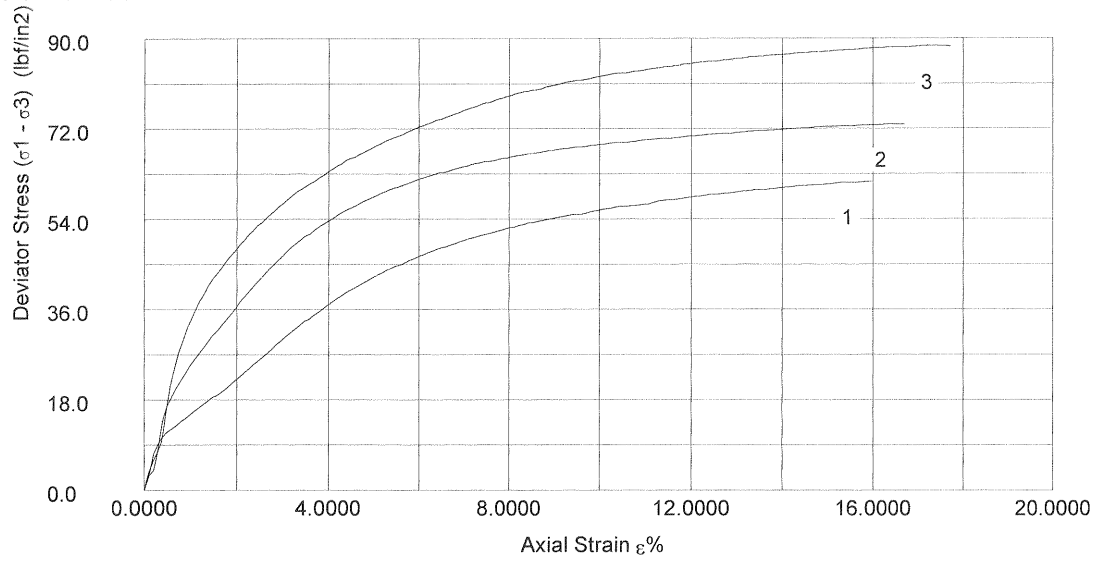
Sp 3

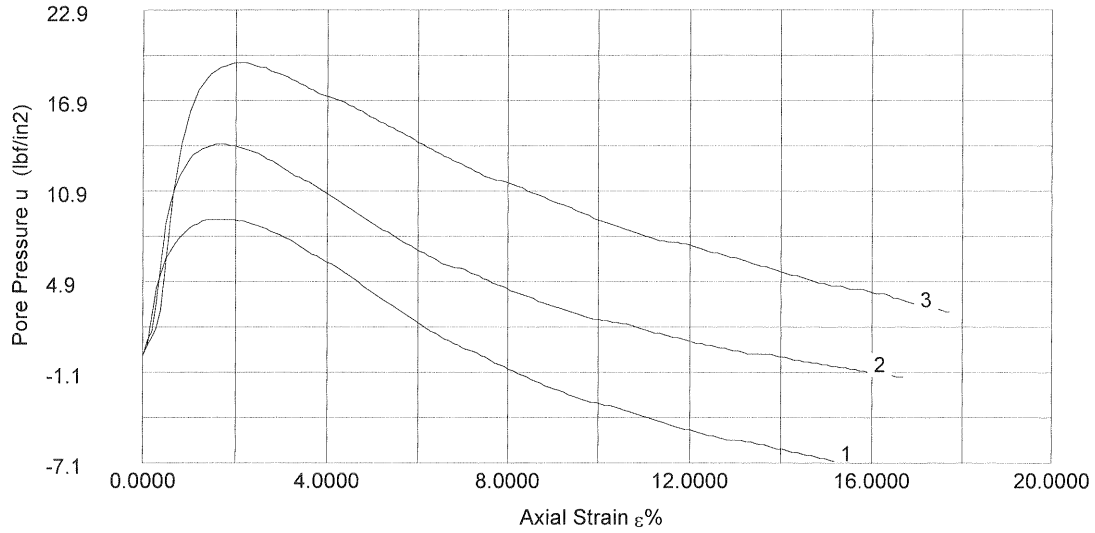
***Surface Inclination***

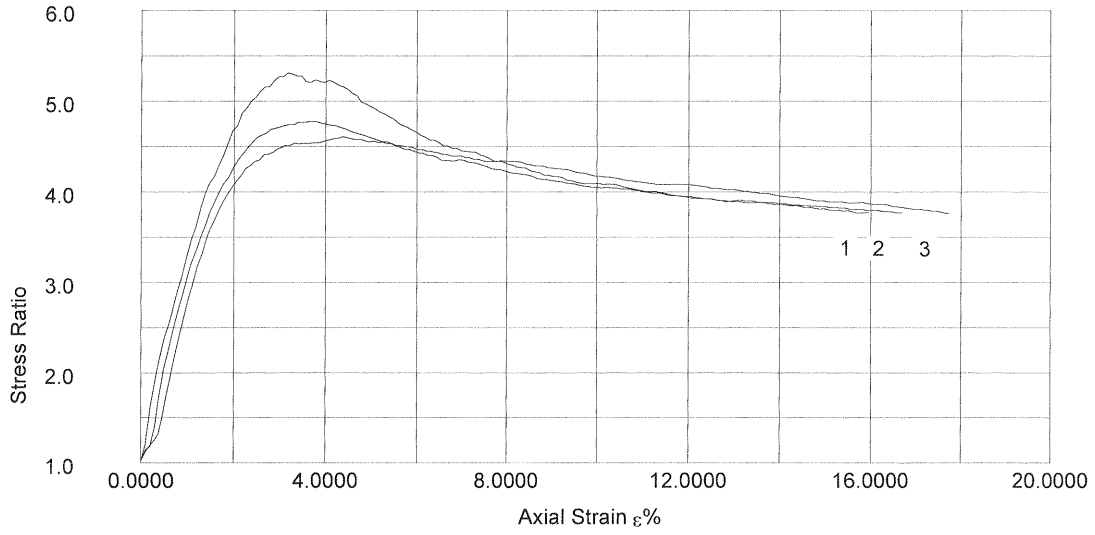
| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name: CU Triaxial (SS, MS) | |
| | | Date of Test: 11-19-09 | |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: ST-2 | |
| | Jobfile: E:\41109084.JOB | Borehole: B-7 | |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



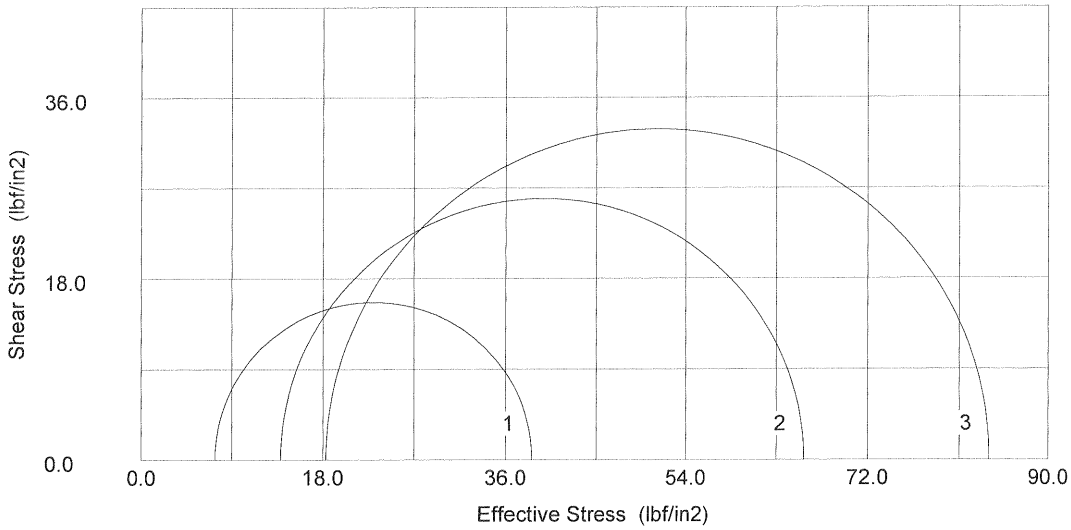



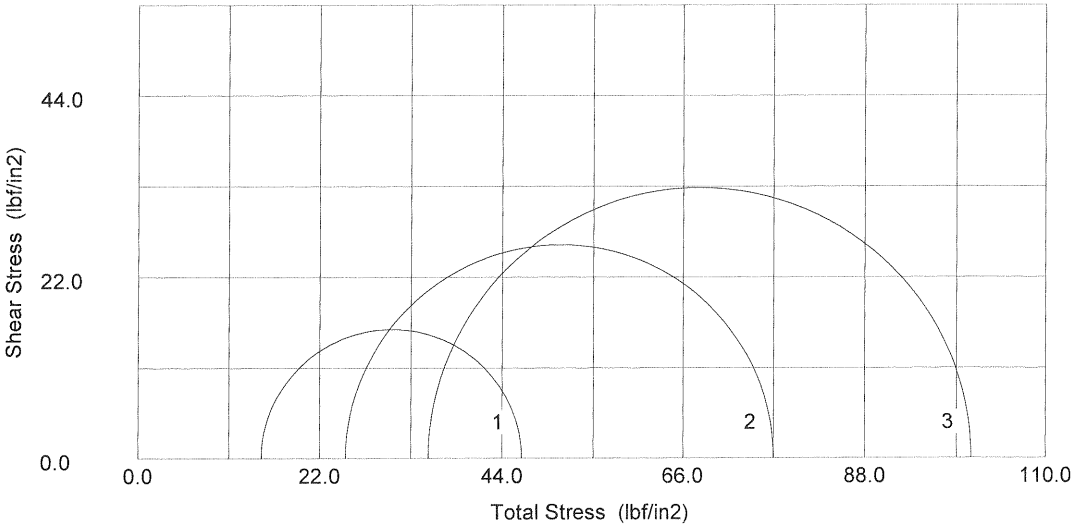




| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-19-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-2 |
| | Jobfile: E:\41109084.JOB | Borehole: | B-7 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

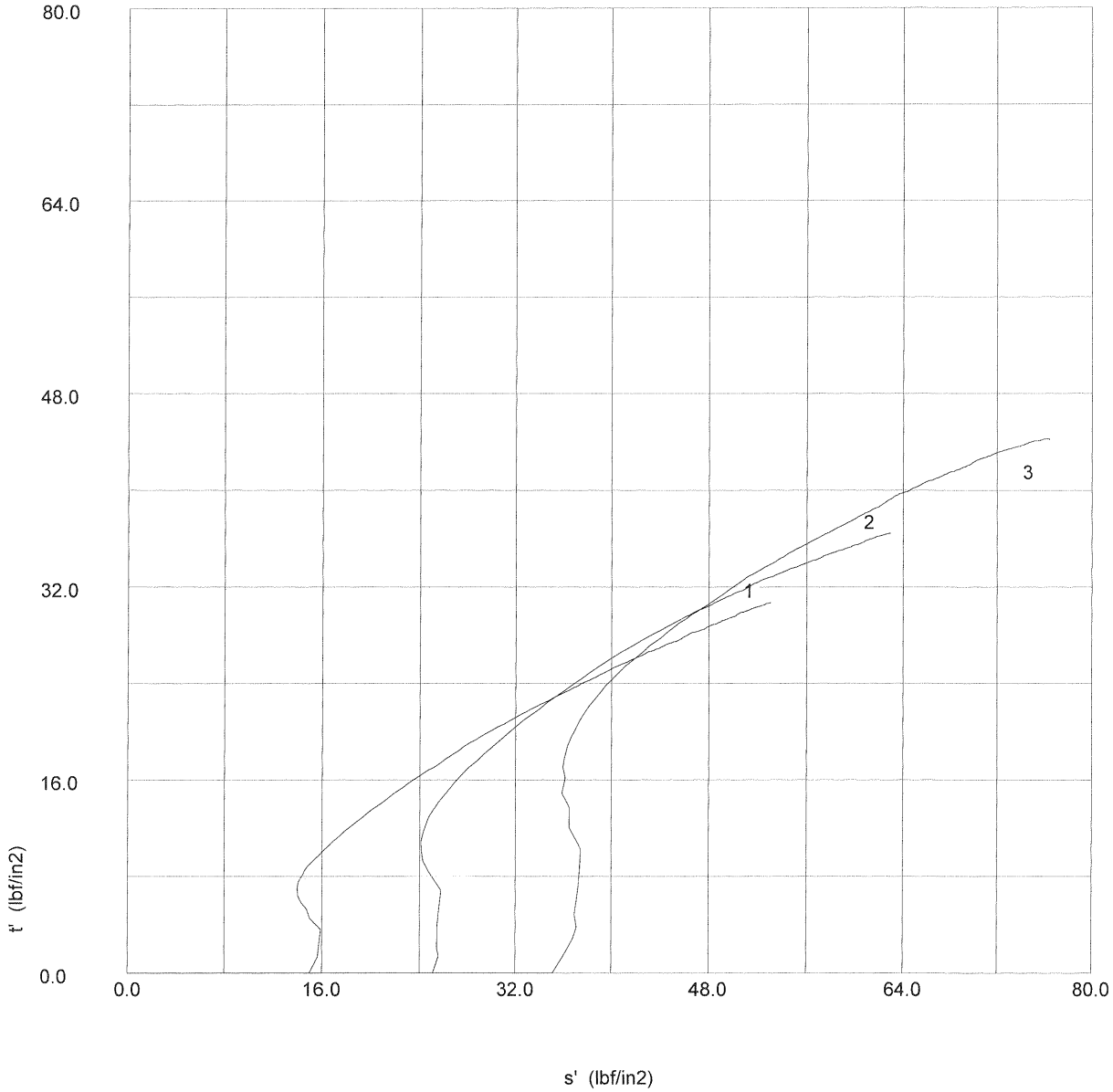



| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-19-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-2 |
| | Jobfile: E:\41109084.JOB | Borehole: | B-7 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



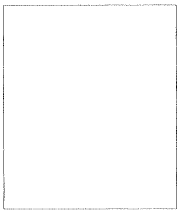

| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-19-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-2 |
| | Jobfile: E:\41109084.JOB | Borehole: | B-7 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

***Sample details***

***Sketch showing specimen location in original Sample***



Depth 65.6 - 67.6 ft.
Description: Red-Brown Sandy CLAY (CL)

| | Specimen 1 | Specimen 2 |
|---|---|---|
| Type | Undisturbed | Undisturbed |
| Height $H_0$ (in) | 5.98 | 5.974 |
| Diameter $D_0$ (in) | 2.874 | 2.873 |
| Weight $W_0$ (gr) | 1309.6 | 1286.2 |
| Bulk Density $\rho$ (PCF) | 128.60 | 126.52 |
| Particle Density $\rho_s$ | 2.771 (measured) | 2.771 (measured) |

***Initial Conditions***

| | Specimen 1 | Specimen 2 |
|---|---|---|
| Cell Pressure $\sigma_3$ (lbf/in2) | 50.1 | 70.1 |
| Pore Pressure u (lbf/in2) | 0.0 | 0.0 |
| Machine Speed $d_r$(in/min) | 0.0183 | 0.0244 |
| No. of Membranes | 1 | 1 |
| Total Thickness (in) | 0.025 | 0.025 |
| Strain Channel | 1798 | 1798 |
| Load Channel | 1776 | 1776 |
| Pore P. Channel | 1779 | 1779 |
| Volume Channel | Volume Chang | Volume Chang |
| Moisture Content $w_0$% | 20.4 | 21.0 |
| Dry Density $\rho_{d0}$ (PCF) | 106.78 | 104.59 |
| Voids Ratio $e_0$ | 0.62 | 0.65 |
| Deg of Saturation $S_0$% | 91.45 | 88.94 |
| Final B Value | 0.97 | 0.98 |

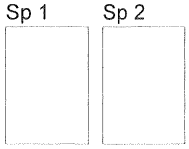
***Final Conditions***

| | Specimen 1 | Specimen 2 |
|---|---|---|
| Moisture Content $w_f$% | 22.7 | 23.3 |
| Dry Density $\rho_d$ (PCF) | 109.71 | 107.78 |
| Voids Ratio $e_f$ | 0.58 | 0.60 |
| Deg of Saturation $S_f$% | 100.00 | 100.00 |
| Failure Criteria | Mx Stress Ratio | Mx Stress Ratio |
| Axial Strain $\varepsilon_f$% | 3.5 | 6.4 |
| Corr Dev Stress $(\sigma_1 - \sigma_3)f$ (lbf/in2) | 75.5 | 103.6 |
| Minor Stress $\sigma_{3f}$ (lbf/in2) | 18.6 | 27.9 |
| Major Stress $\sigma_{1f}$ (lbf/in2) | 94.1 | 131.5 |
| Stress Ratio $(\sigma_1/\sigma_3)_f$ | 5.1 | 4.7 |

Notes:

***Failure Sketch***

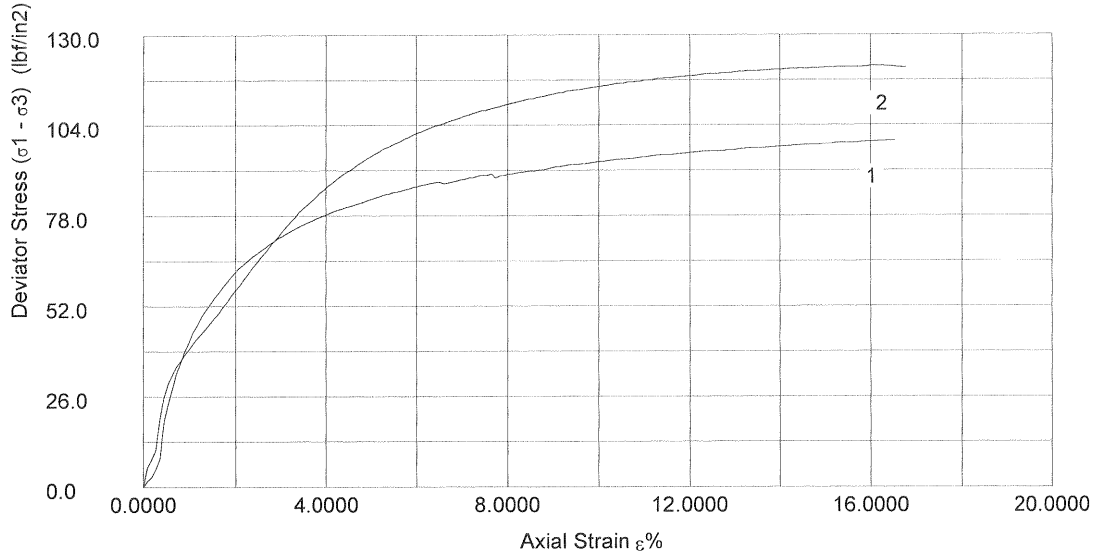
Sp 1 Sp 2

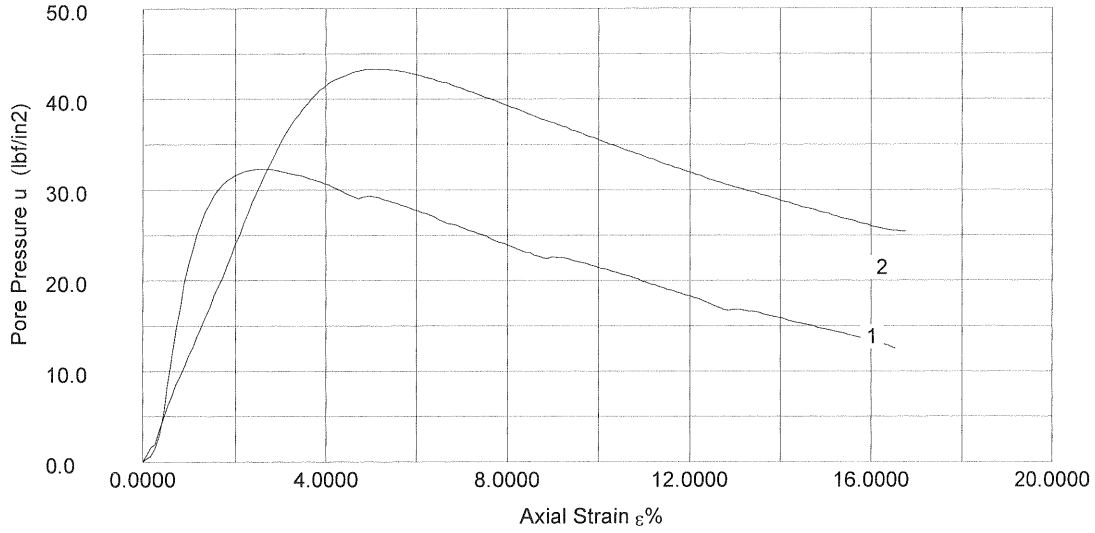


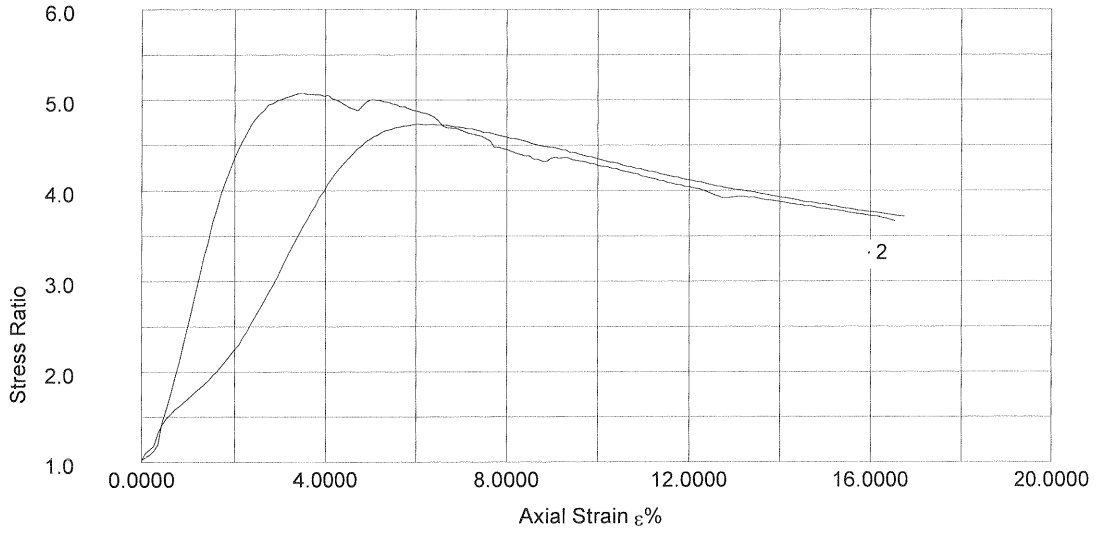
***Surface Inclination***

# Effective Stress Triaxial Compression

## Consolidated Undrained



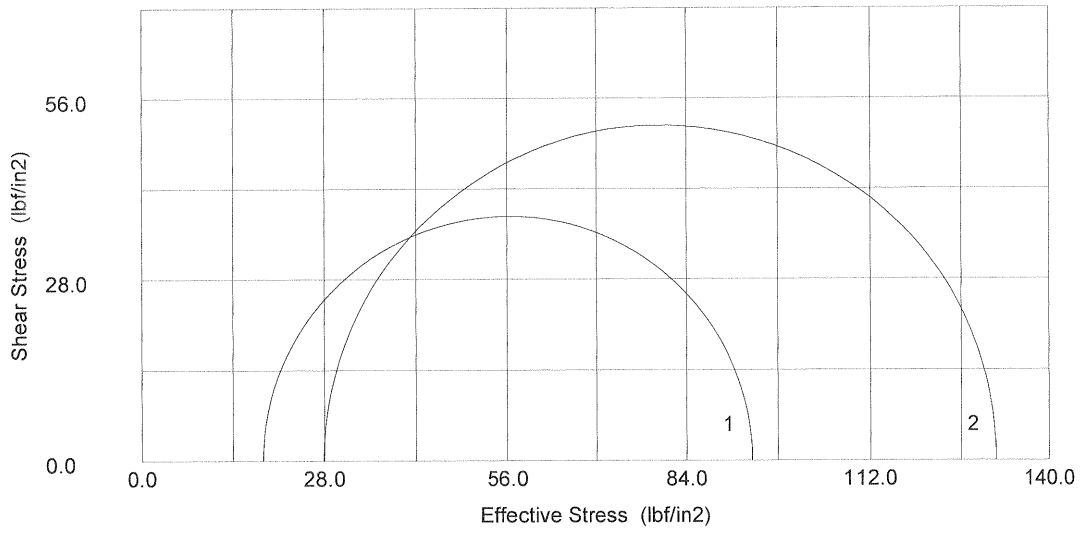



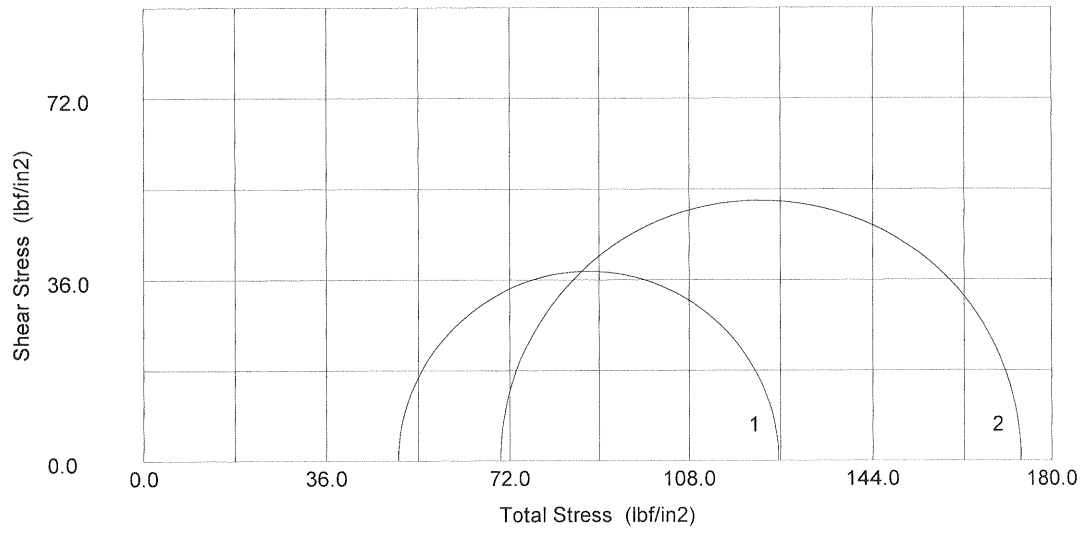




| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-17-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-3 |
| | Jobfile: E:\109084.JOB | Borehole: | B-7 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

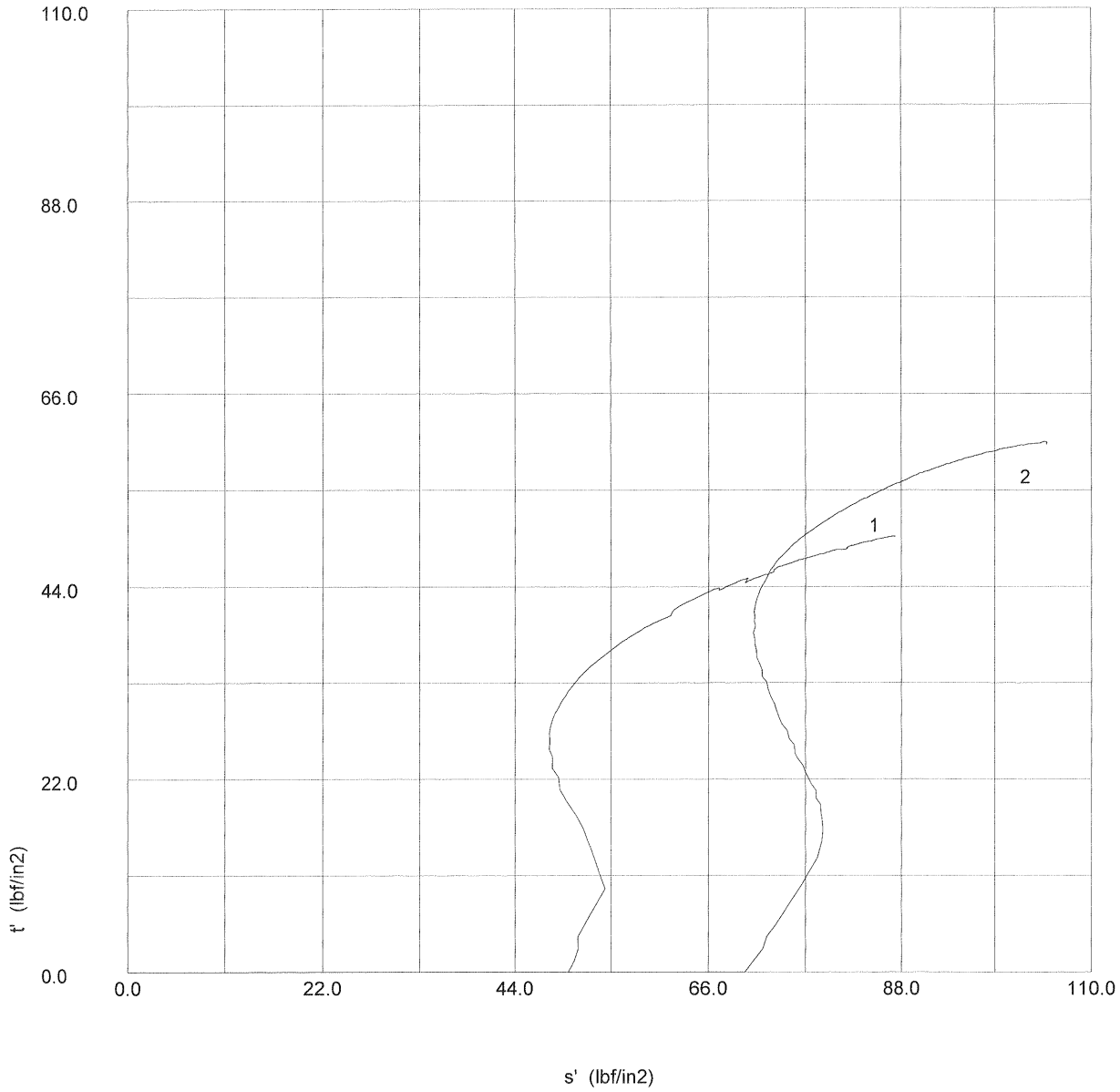



| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name: CU Triaxial (SS, MS) | |
| | | Date of Test: 11-17-09 | |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: ST-3 | |
| | Jobfile: E:\109084.JOB | Borehole: B-7 | |
| | *Operator:* | *Checked:* | *Approved:* |
| Progress Energy Carolinas, Inc., Asheville Plant | | | Attachements Page 1168 |

# Effective Stress Triaxial Compression

## Consolidated Undrained



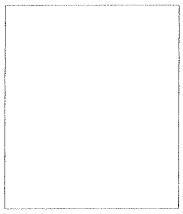

| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name: CU Triaxial (SS, MS) | |
| | | Date of Test: 11-17-09 | |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: ST-3 | |
| | Jobfile: E:\109084.JOB | Borehole: B-7 | |
| | *Operator:* | *Checked:* | *Approved:* |
| Progress Energy | Carolinas, Inc., Asheville Plant | | Attachements Page 1169 |

# Effective Stress Triaxial Compression

## Consolidated Undrained

***Sample details***

***Sketch showing specimen location in original Sample***



Depth: ST-1=18.5-20 ft.; ST-2=28.5-30 ft.
Description: ST-1=Brown Sandy CLAY (CL); ST-2=Red-Brown Sandy CLAY (CL)

| | Specimen 1 | Specimen 2 | Specimen 3 | Specimen 4 |
|---|---|---|---|---|
| Type | Undisturbed | Undisturbed | Undisturbed | Undisturbed |
| Height $H_0$ (in) | 5.849 | 5.765 | 6.02 | 5.933 |
| Diameter $D_0$ (in) | 2.882 | 2.877 | 2.868 | 2.869 |
| Weight $W_0$ (gr) | 1329.9 | 1321.9 | 1362.6 | 1290.5 |
| Bulk Density $\rho$ (PCF) | 132.78 | 134.37 | 133.47 | 128.18 |
| Particle Density $\rho_s$ | 2.729 (measured) | 2.729 (measured) | 2.729 (measured) | 2.771 (measured) |

***Initial Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 | Specimen 4 |
|---|---|---|---|---|
| Cell Pressure $\sigma_3$ (lbf/in2) | 4.8 | 25.1 | 40.4 | 60.2 |
| Pore Pressure u (lbf/in2) | 0.0 | 0.0 | 0.0 | 0.0 |
| Machine Speed $d_r$(in/min) | 0.0292 | 0.0208 | 0.0123 | 0.0301 |
| No. of Membranes | 1 | 1 | 1 | 1 |
| Total Thickness (in) | 0.025 | 0.025 | 0.025 | 0.025 |
| Strain Channel | 1798 | 1798 | 1798 | 1798 |
| Load Channel | 1776 | 1776 | 1776 | 1776 |
| Pore P. Channel | 1779 | 1779 | 1779 | 1779 |
| Volume Channel | Volume Chang | Volume Chang | Volume Chang | Volume Chang |
| Moisture Content $w_0$% | 15.6 | 15.4 | 14.6 | 20.9 |
| Dry Density $\rho_{d0}$ (PCF) | 114.89 | 116.49 | 116.42 | 106.05 |
| Voids Ratio $e_0$ | 0.48 | 0.46 | 0.46 | 0.63 |
| Deg of Saturation $S_0$% | 88.14 | 90.71 | 86.38 | 91.70 |
| Final B Value | 0.96 | 0.97 | 0.97 | 0.98 |

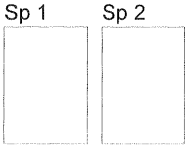
***Final Conditions***

| | Specimen 1 | Specimen 2 | Specimen 3 | Specimen 4 |
|---|---|---|---|---|
| Moisture Content $w_f$% | 18.3 | 17.0 | 17.2 | 22.6 |
| Dry Density $\rho_d$ (PCF) | 115.97 | 118.91 | 118.73 | 109.49 |
| Voids Ratio $e_f$ | 0.47 | 0.43 | 0.43 | 0.58 |
| Deg of Saturation $S_f$% | 100.00 | 100.00 | 100.00 | 100.00 |
| Failure Criteria | Mx Stress Ratio | Mx Stress Ratio | Mx Stress Ratio | Mx Stress Ratio |
| Axial Strain $\varepsilon_f$% | 4.0 | 3.0 | 3.9 | 5.0 |
| Corr Dev Stress $(\sigma_1 - \sigma_3)f$ (lbf/in2) | 42.4 | 61.8 | 73.5 | 88.7 |
| Minor Stress $\sigma_{3f}$ (lbf/in2) | 0.9 | 7.1 | 10.9 | 20.0 |
| Major Stress $\sigma_{1f}$ (lbf/in2) | 43.3 | 68.9 | 84.4 | 108.7 |
| Stress Ratio $(\sigma_1/\sigma_3)_f$ | 48.1 | 9.7 | 7.7 | 5.4 |

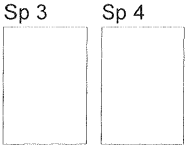
Notes: Specimen #4 from ST-2 (28.5 - 30 ft)

***Failure Sketch***

Sp 1 Sp 2



Sp 3 Sp 4

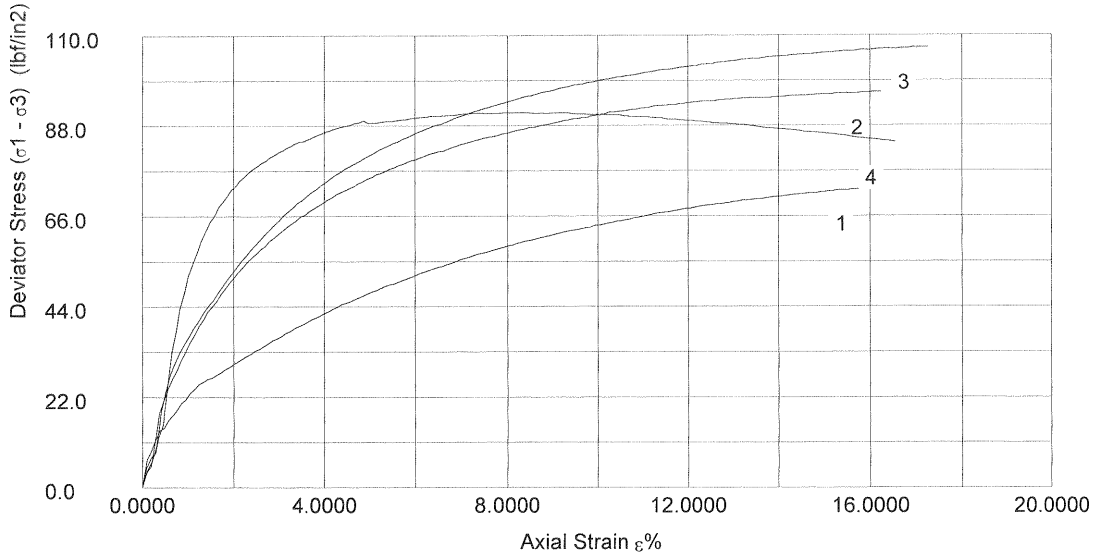


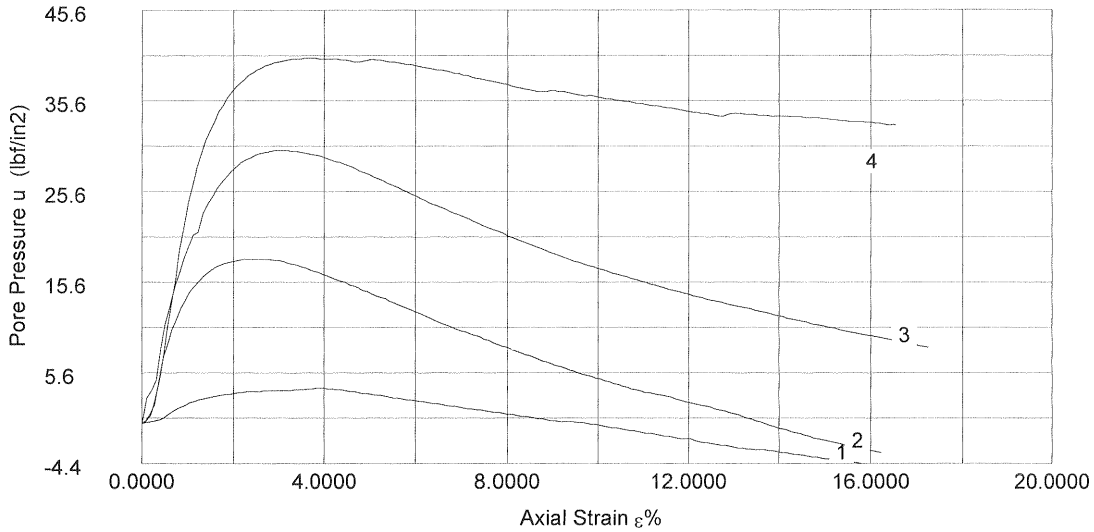
***Surface Inclination***

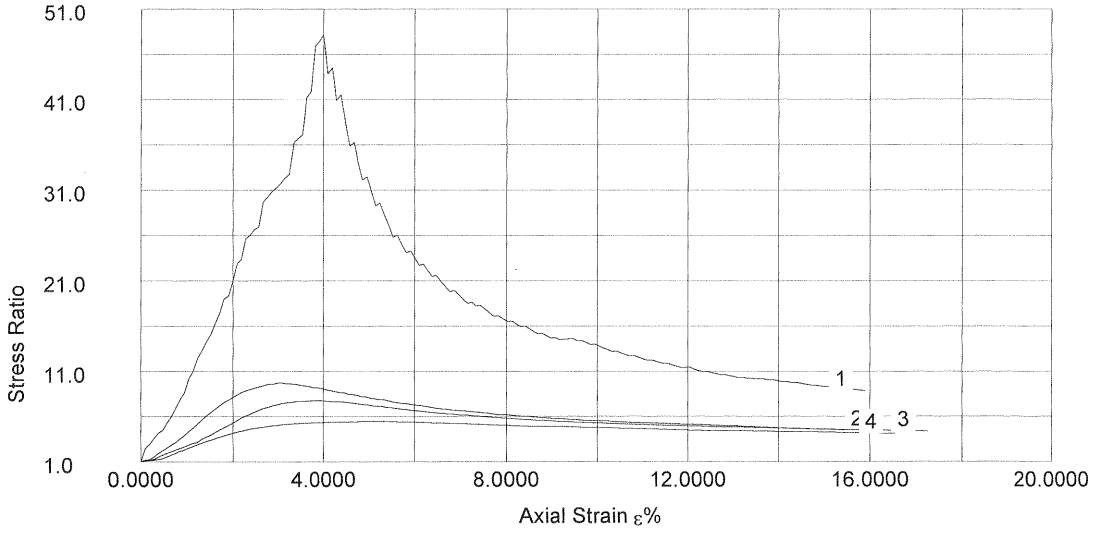
| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name: CU Triaxial (SS, MS) | |
| | | Date of Test: 11-17-09 | |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: ST-1 & ST-2 | |
| | Jobfile: E:\109084.JOB | Borehole: B-4 | |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained



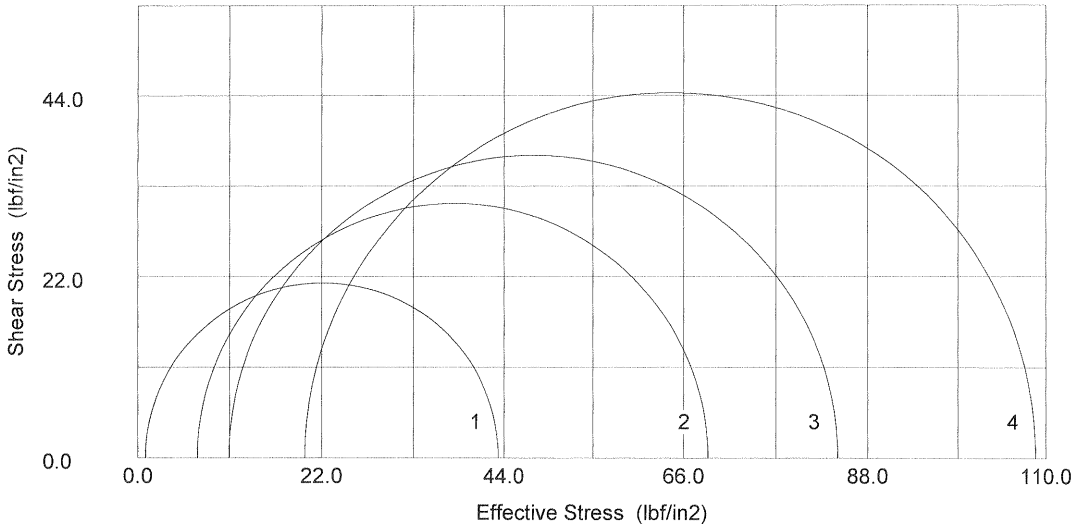



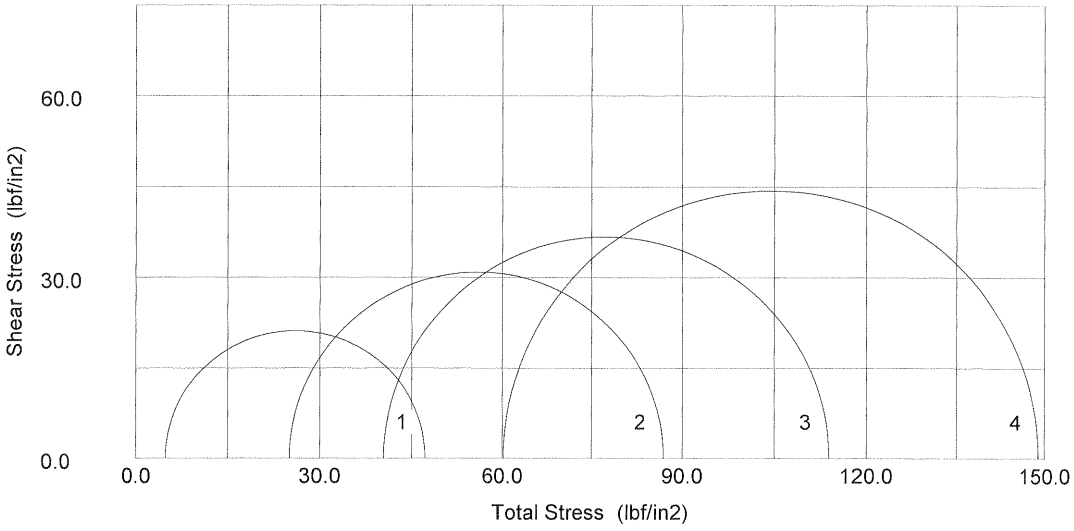




| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-17-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 & ST-2 |
| | Jobfile: E:\109084.JOB | Borehole: | B-4 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained

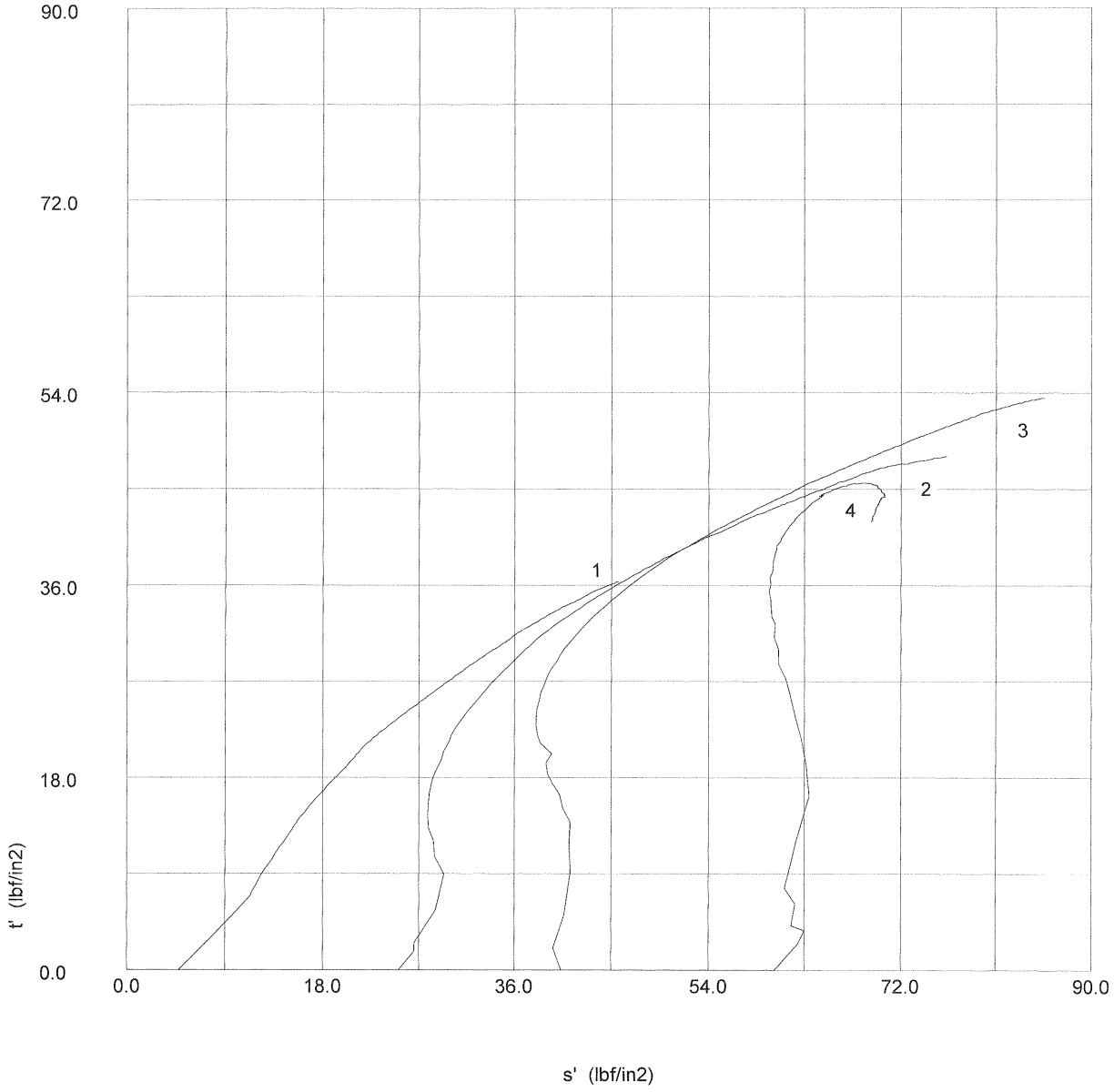



| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name | CU Triaxial (SS, MS) |
| | | Date of Test: | 11-17-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: | ST-1 & ST-2 |
| | Jobfile: E:\109084.JOB | Borehole: | B-4 |
| | *Operator:* | *Checked:* | *Approved:* |

# Effective Stress Triaxial Compression

## Consolidated Undrained




| | | | |
|---|---|---|---|
| S&ME | Test Method: ASTM D4767-95 | Test name: CU Triaxial (SS, MS) | Date of Test: 11-17-09 |
| | Site Reference: Asheville S.E.P.-1964 Ash Basin | Sample: ST-1 & ST-2 | |
| | Jobfile: E:\109084.JOB | Borehole: B-4 | |
| | *Operator:* | *Checked:* | *Approved:* |

## Appendix IV – Slope Stability Analysis

- Figure S-1 - Section 9+00 Stability of Combined 1964/71 Slope and Upper Slope
- Figure S-2 - Section 9+00 – Stability of Lower 1964 Slope
- Figure S-3 - Section 13+50 – Stability of 1971 Dike Section
- Figure S-4 - Stability of 1971 Typical Section - 55-foot height, 1.5:1 Slope.

Station 9+00
Long-term Effective Stress, Steady State Seepage
Overall Stability of Combined 1964/71 Section and Local Stability of Upper/1971 Slope

Material: Zone 1 (core)
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 200 psf
Friction Angle: 32 degrees

Material: Zone 2 (rock fill)
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 45 degrees

Material: Zone 3 (random fill)
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees

Material: Zone 4 (drainage zone)
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 36 degrees

Material: cofferdam fill
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees

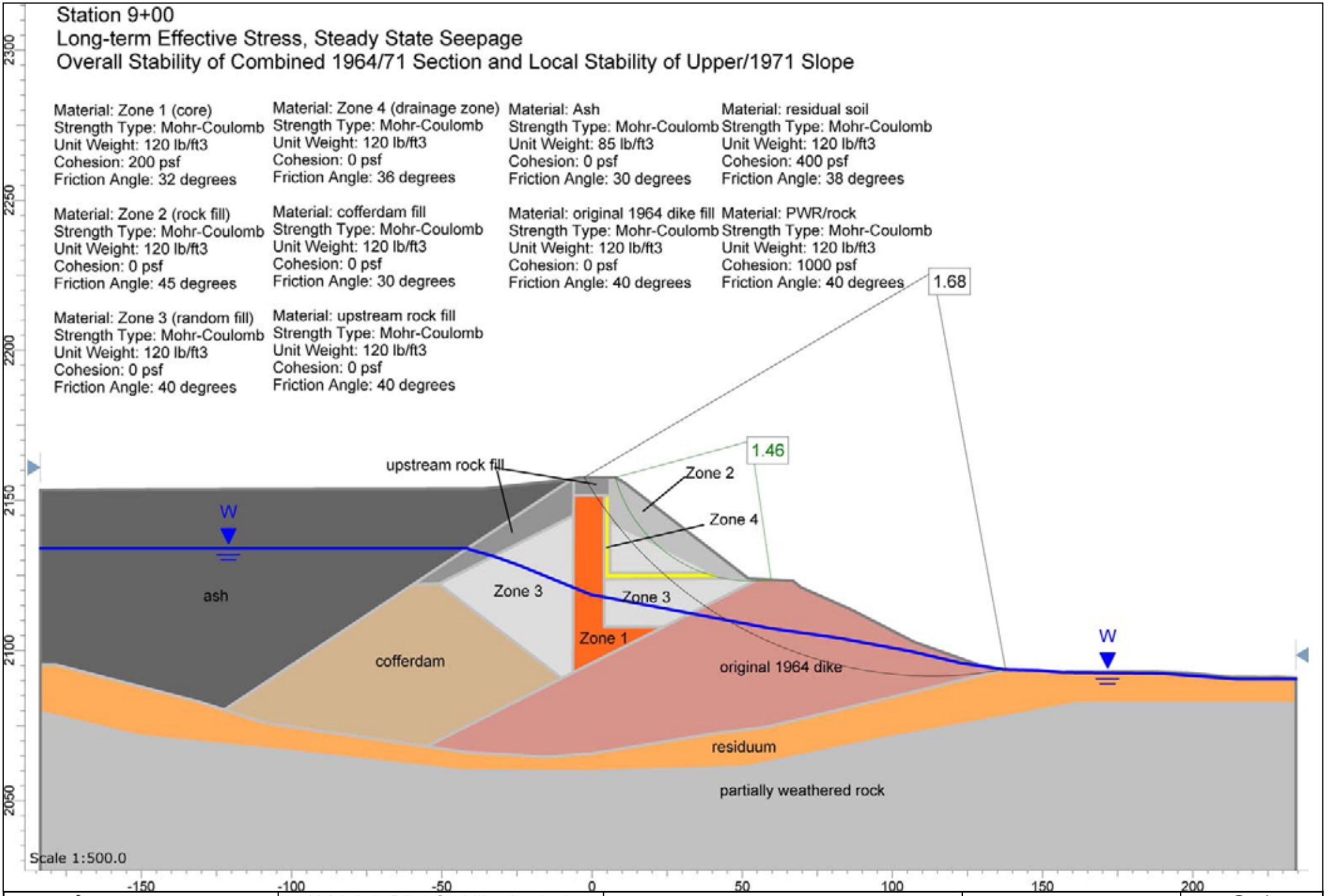
Material: upstream rock fill
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees

Material: Ash
Strength Type: Mohr-Coulomb
Unit Weight: 85 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees

Material: original 1964 dike fill
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees

Material: residual soil
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 400 psf
Friction Angle: 38 degrees

Material: PWR/rock
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 1000 psf
Friction Angle: 40 degrees




| | | | | |
|---|---|---|---|---|
| S&ME | 1964 Ash Dike Stability Analysis<br>Progress Energy Asheville Plant | Section at Station 9+00 | Project No: 1411-09-084<br>Date: April 2010 | S-1<br>Figure No. |

Station 9+00
Long-term Effective Stress, Steady State Seepage
Local Stability of Lower/1964 dike with water infiltration from crest

Material: Zone 1 (core)
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 200 psf
Friction Angle: 32 degrees

Material: Zone 2 (rock fill)
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 45 degrees

Material: Zone 3 (random fill)
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees

Material: Zone 4 (drainage zone)
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 36 degrees

Material: cofferdam fill
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees

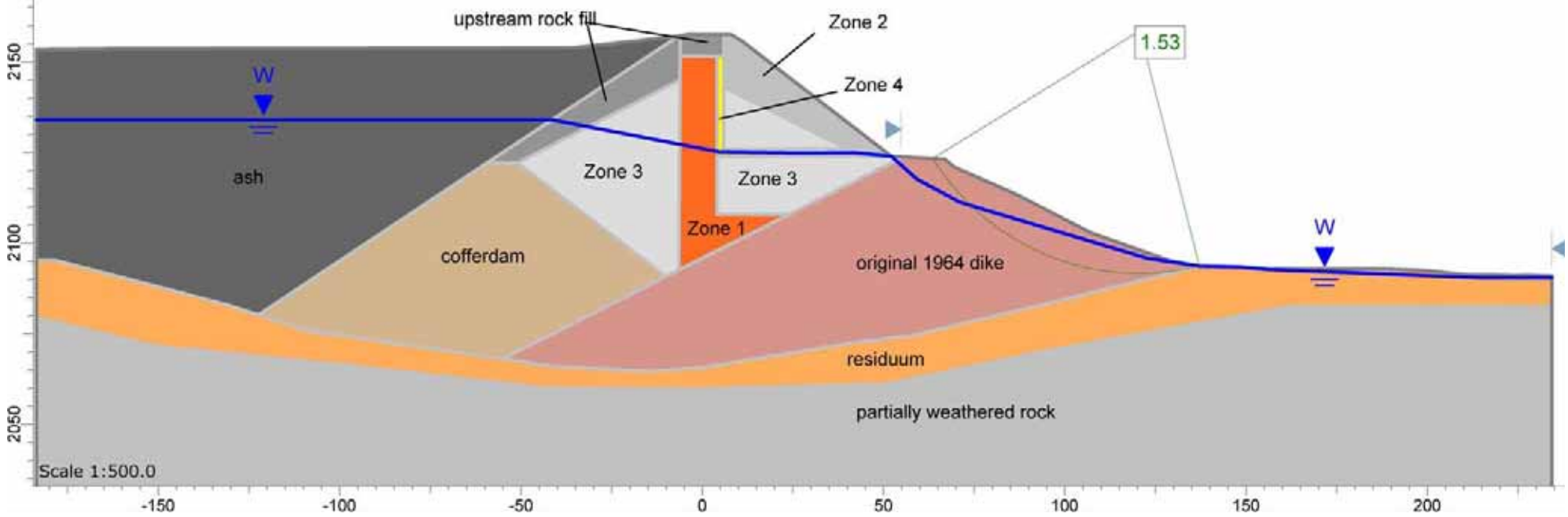
Material: upstream rock fill
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees

Material: Ash
Strength Type: Mohr-Coulomb
Unit Weight: 85 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees

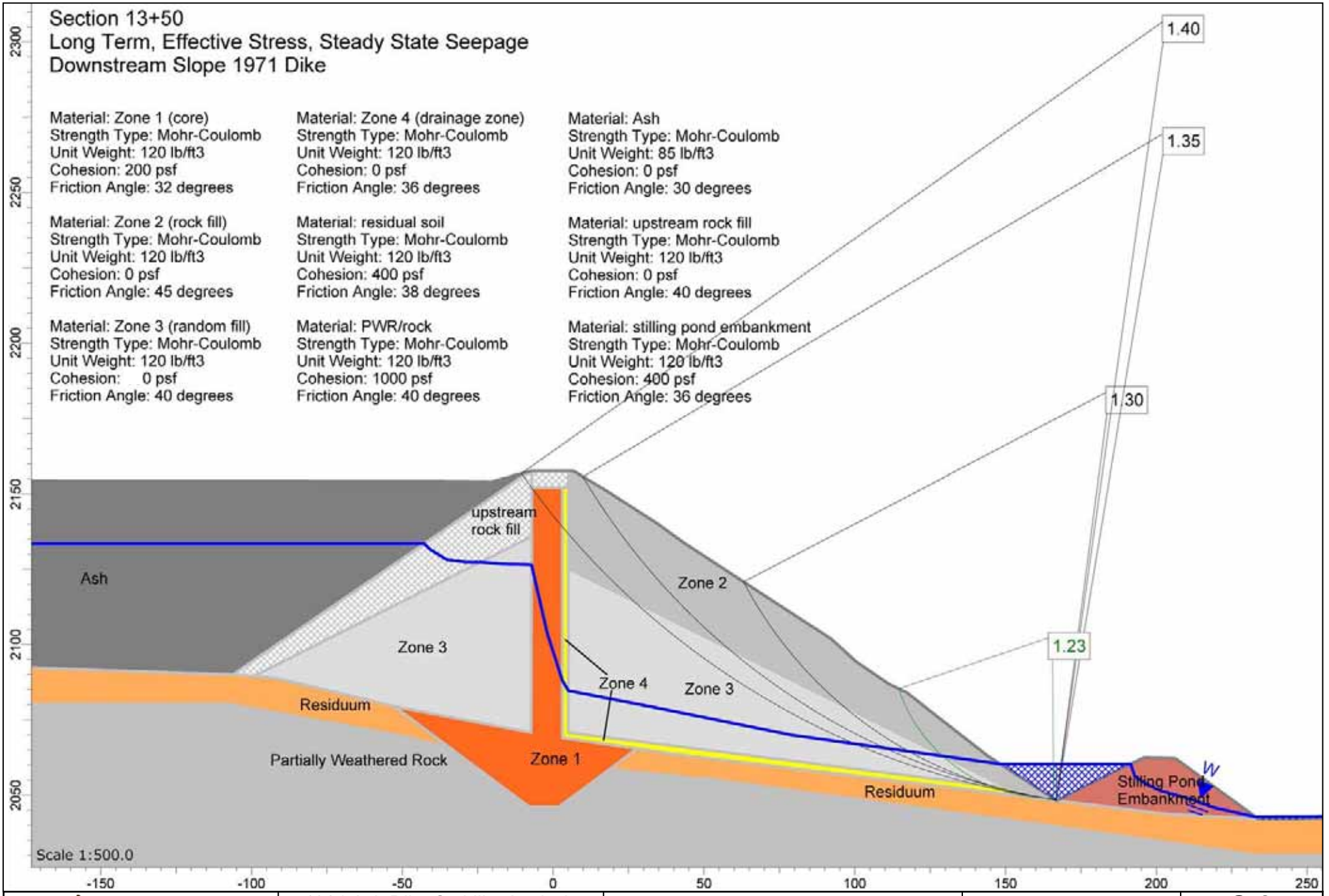
Material: original 1964 dike fill
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees

Material: residual soil
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 400 psf
Friction Angle: 38 degrees

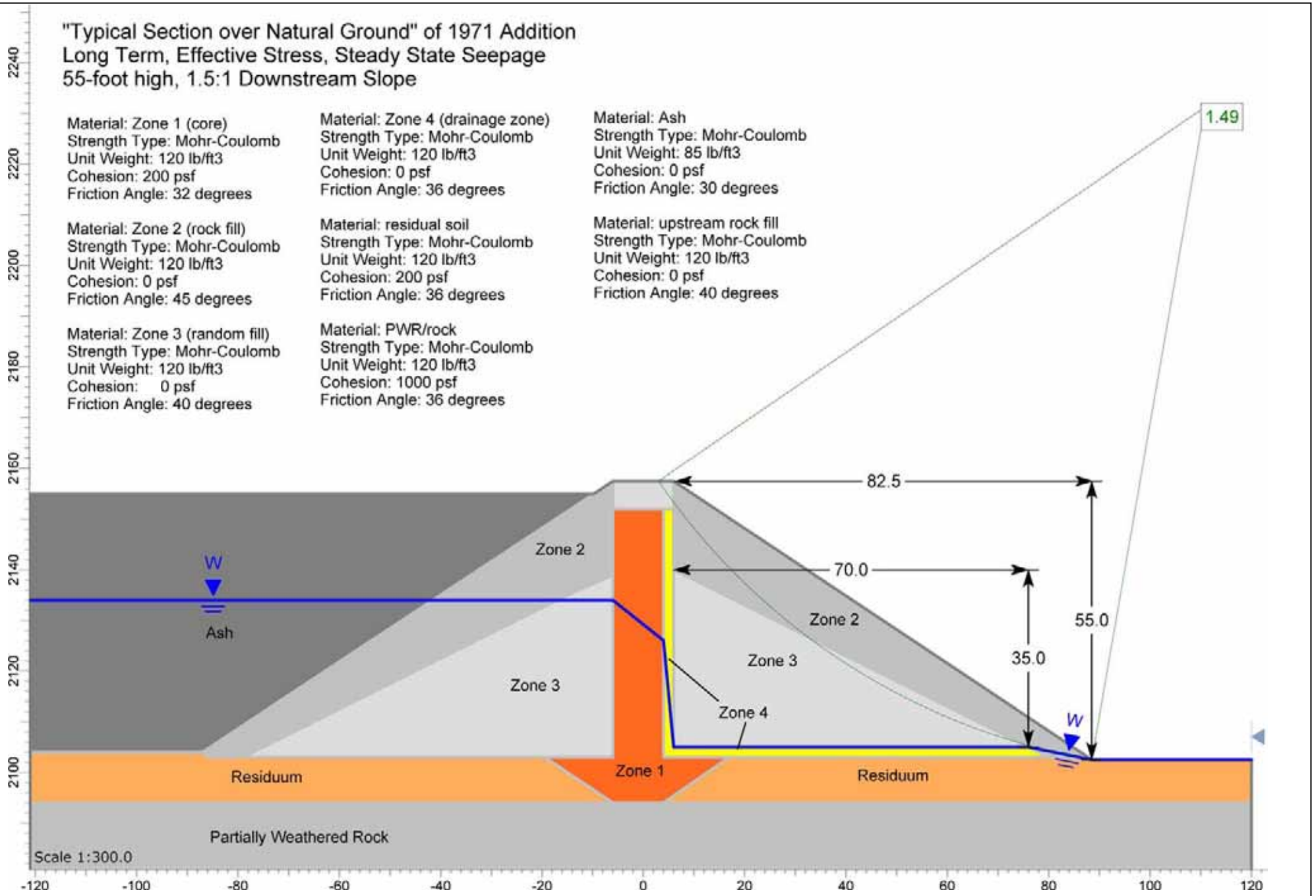
Material: PWR/rock
Strength Type: Mohr-Coulomb
Unit Weight: 120 lb/ft3
Cohesion: 1000 psf
Friction Angle: 40 degrees




| | | | | |
|---|---|---|---|---|
| S&ME | 1964 Ash Dike Stability Analysis<br>Progress Energy Asheville Plant | Section at Station 9+00 | Project No: 1411-09-084<br>Date: April 2010 | S-2<br>Figure No. |



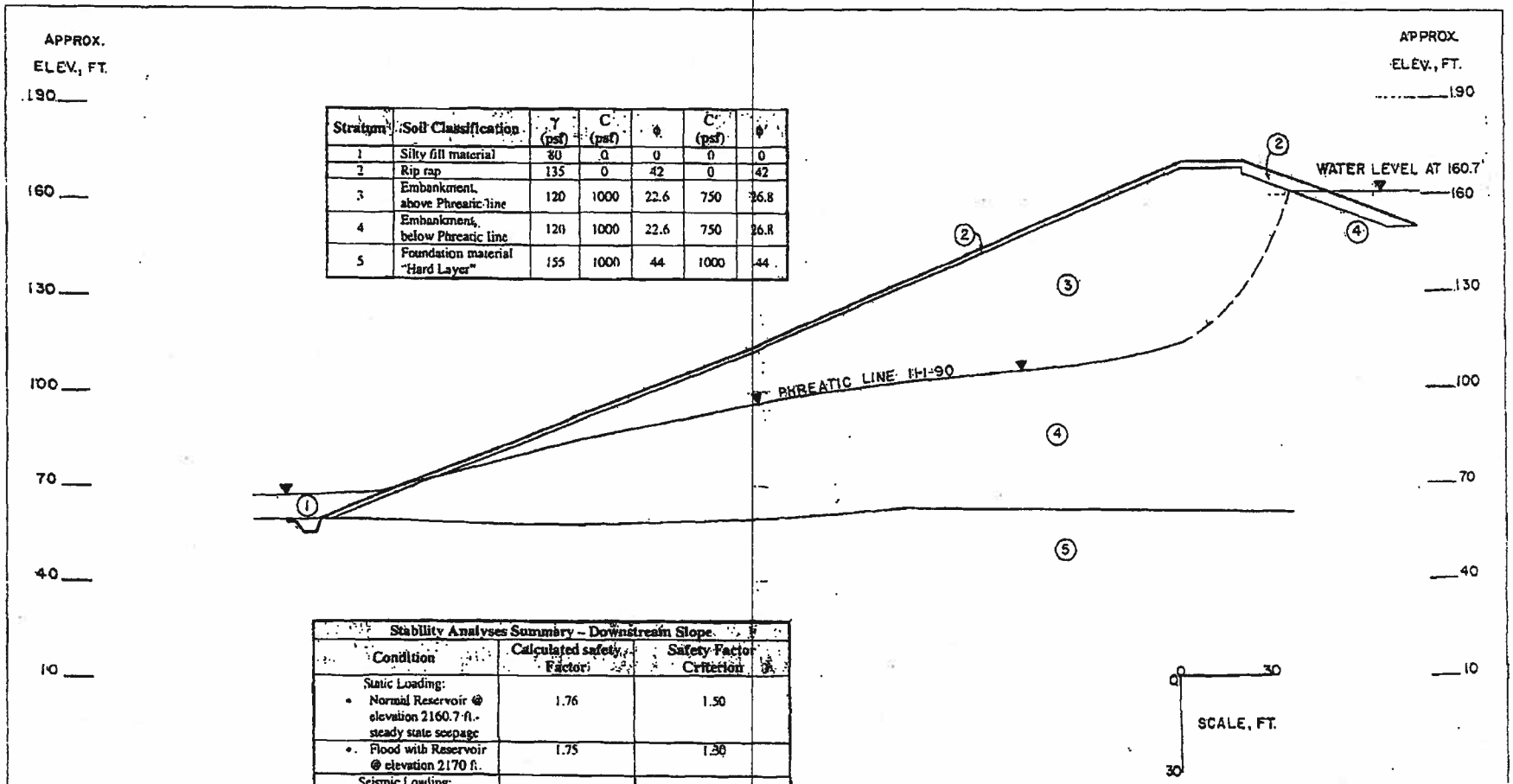

| | | | | |
|---|---|---|---|---|
| S&ME | 1964 Ash Dike Stability Analysis<br>Progress Energy Asheville Plant | Section at Station 13+50 | Project No: 1411-09-084<br>Date: April 2010 | S-3<br>Figure No. |




| | | | | |
|---|---|---|---|---|
| S&ME | 1964 Ash Dike Stability Analysis<br>Progress Energy Asheville Plant | 55 foot high, 1.5:1 - Typical Section | Project No: 1411-09-084<br>Date: April 2010 | S-4<br>Figure No. |

**Appendix O**

Slope Stability Models
Question 17




| Stratum | Soil Classification | γ (psf) | C (psf) | φ | C' (psf) | φ' |
|---|---|---|---|---|---|---|
| 1 | Silty fill material | 80 | 0 | 0 | 0 | 0 |
| 2 | Rip rap | 135 | 0 | 42 | 0 | 42 |
| 3 | Embankment, above Phreatic line | 120 | 1000 | 22.6 | 750 | 26.8 |
| 4 | Embankment, below Phreatic line | 120 | 1000 | 22.6 | 750 | 26.8 |
| 5 | Foundation material "Hard Layer" | 155 | 1000 | 44 | 1000 | 44 |

| Stability Analyses Summary – Downstream Slope | | |
|---|---|---|
| Condition | Calculated safety Factor | Safety Factor Criterion |
| Static Loading:<br>• Normal Reservoir @ elevation 2160.7 ft.- steady state seepage | 1.76 | 1.50 |
| • Flood with Reservoir @ elevation 2170 ft. | 1.75 | 1.30 |
| Seismic Loading:<br>• Normal Reservoir @ elevation 2160.7 ft.- steady state seepage | 1.20 | 1.0 |

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ASHEVILLE, NORTH CAROLINA

STABILITY MODEL - DOWNSTREAM SLOPE - COOLING LAKE DAM
PROGRESS ENERGY
ASHEVILLE STEAM ELECTRIC PLANT
SKYLAND, NORTH CAROLINA

| | | |
|---|---|---|
| DRAWN: | DATE: MAY 2007 | EXHIBIT 5 |
| ENG CHECK: | SCALE: AS SHOWN | |
| APPROVAL: | JOB No.: 6468-07-1670 | |

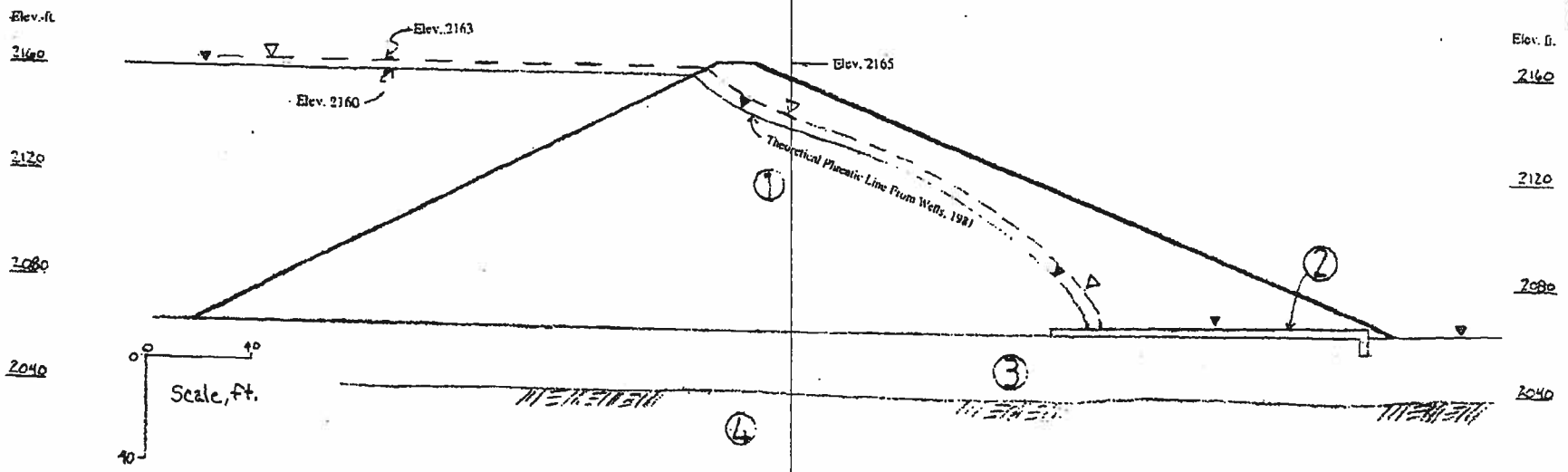
REFERENCE: LAW ENGINEERING REPORT DATED DECEMBER 7, 1990. PROJECT NO. CH7094, FIGURE 6.

22-1

| Legend | Material | γ (psf) | Consolidated-Undrained Strength-Parameters | | Effective Stress Strength-Parameters | |
|---|---|---|---|---|---|---|
| | | | C (psf) | ϕ | C' (psf) | ϕ' |
| 1 | Embankment | 120 | 1000 | 23 | 370 | 30 |
| 2 | Sand Drain | 120 | 0 | 36 | 0 | 36 |
| 3 | Foundation Soil (Saprolite) | 130 | 650 | 30 | 400 | 32 |
| 4 | Weathered Rock | 135 | 10,000 | 45 | 10,000 | 45 |

Value obtained from Wells, 1981 – otherwise assumed based on experience with similar soils.

| Stability Analyses Summary – Downstream Slope | | |
|---|---|---|
| Condition | Calculated safety Factor | Safety Factor Criterion |
| Static Loading: | | |
| • Reservoir @ elevation 2160 ft.-steady state seepage | 1.68 | 1.50 |
| • Reservoir @ elevation 2163 ft.-steady state seepage | 1.63 | 1.50 |
| Seismic Loading: | | |
| • Reservoir @ elevation 2160 ft.-steady state seepage | 1.07 | 1.0 |
| • Reservoir @ elevation 2163 ft.-steady state seepage | 1.03 | 1.0 |

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MACTEC ENGINEERING AND CONSULTING, INC.
ASHEVILLE, NORTH CAROLINA

STABILITY MODEL - DOWNSTREAM SLOPE - 1982 ASH POND DAM
PROGRESS ENERGY
ASHEVILLE STEAM ELECTRIC PLANT
SKYLAND, NORTH CAROLINA

| | | | |
|---|---|---|---|
| DRAWN: | | DATE: | MAY 2007 |
| ENG CHECK: | | SCALE: | AS SHOWN |
| APPROVAL: | | JOB No.: | 6468-07-1670 |

EXHIBIT 12

REFERENCE: LETTER TO L.B. WILSON, CP&L FROM WILLIAM L. WELLS DATED FEBRUARY 6, 1981 SUBJECT "ASHEVILLE STEAM ELECTRIC PLANT ASH POND ADDITION ANALYSIS OF DESIGN EARTH DAM", SK-4. LAW ENGINEERING REPORT OF ASH POND CAPACITY EVALUATION DATED JANUARY 19, 1998.

69-1

**Appendix P**

Inundation Maps
Question 17

SEE DRAWING 5 OF 10
SEE DRAWING 4 OF 10
SEE DRAWING 3 OF 10
SEE DRAWING 2 OF 10
Approximate IDF Breach Inundation
Progress Energy Asheville Facility
Interstate
US Highway
NC Highway
State Road
French Broad River
Lake Julian
Buncombe County
20-Foot Contours
0 4,000 8,000 12,000 Feet
REFERENCE:
STREET GIS DATA WAS OBTAINED FROM THE BUNCOMBE COUNTY GIS DEPARTMENT WEBSITE. THE FRENCH BROAD RIVER AND LAKE JULIAN GIS DATA WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET. CONTOUR GIS DATA WAS OBTAINED FROM THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.
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ASH BASIN IDF BREACH INUNDATION OVERVIEW
PROGRESS ENERGY - ASHEVILLE FACILITY
BUNCOMBE COUNTY, NORTH CAROLINA
CXR
JMR
1411-09-081
1" = 4,000'
04/23/10
1
8

SEE DRAWING 2A (MAP A - INSET 2)

SEE DRAWING 2A (MAP A - INSET 1)

Approximate IDF Breach Inundation
100-Year Floodplain
Progress Energy Asheville Facility
Interstate
US Highway
NC Highway
State Road
French Broad River
Lake Julian
Tax Parcels
20-Foot Contours

0 1,000 2,000 Feet

REFERENCE:
STREET GIS DATA WAS OBTAINED FROM THE BUNCOMBE COUNTY GIS DEPARTMENT WEBSITE. THE FRENCH BROAD RIVER AND LAKE JULIAN GIS DATA WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET. FLOODPLAIN GIS DATA WAS OBTAINED FROM THE NC FLOODPLAIN MAPPING PROGRAM. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

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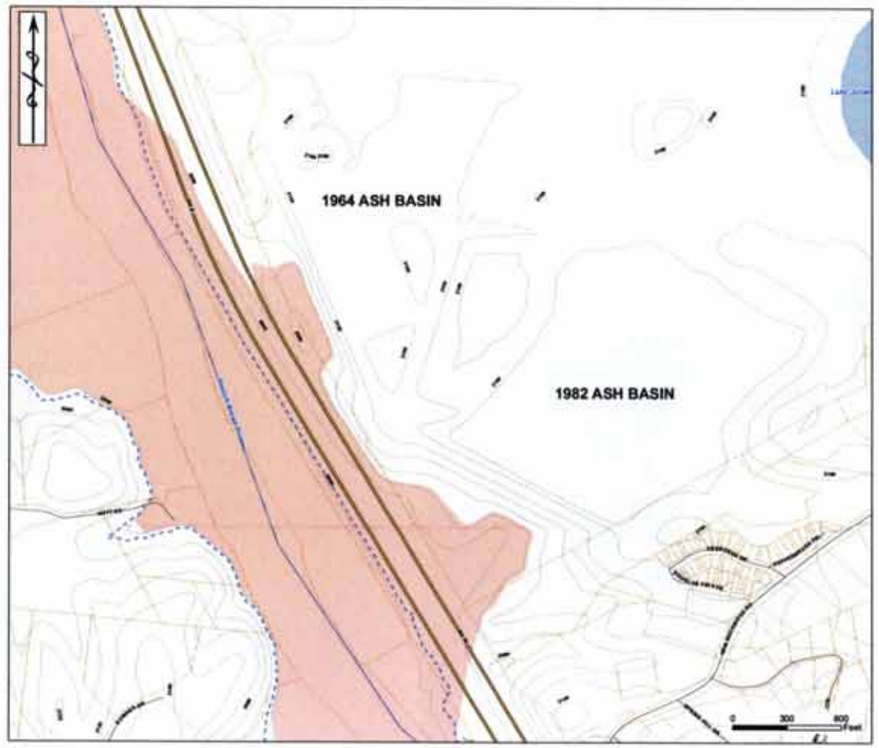
ASH BASIN IDF BREACH INUNDATION MAP A

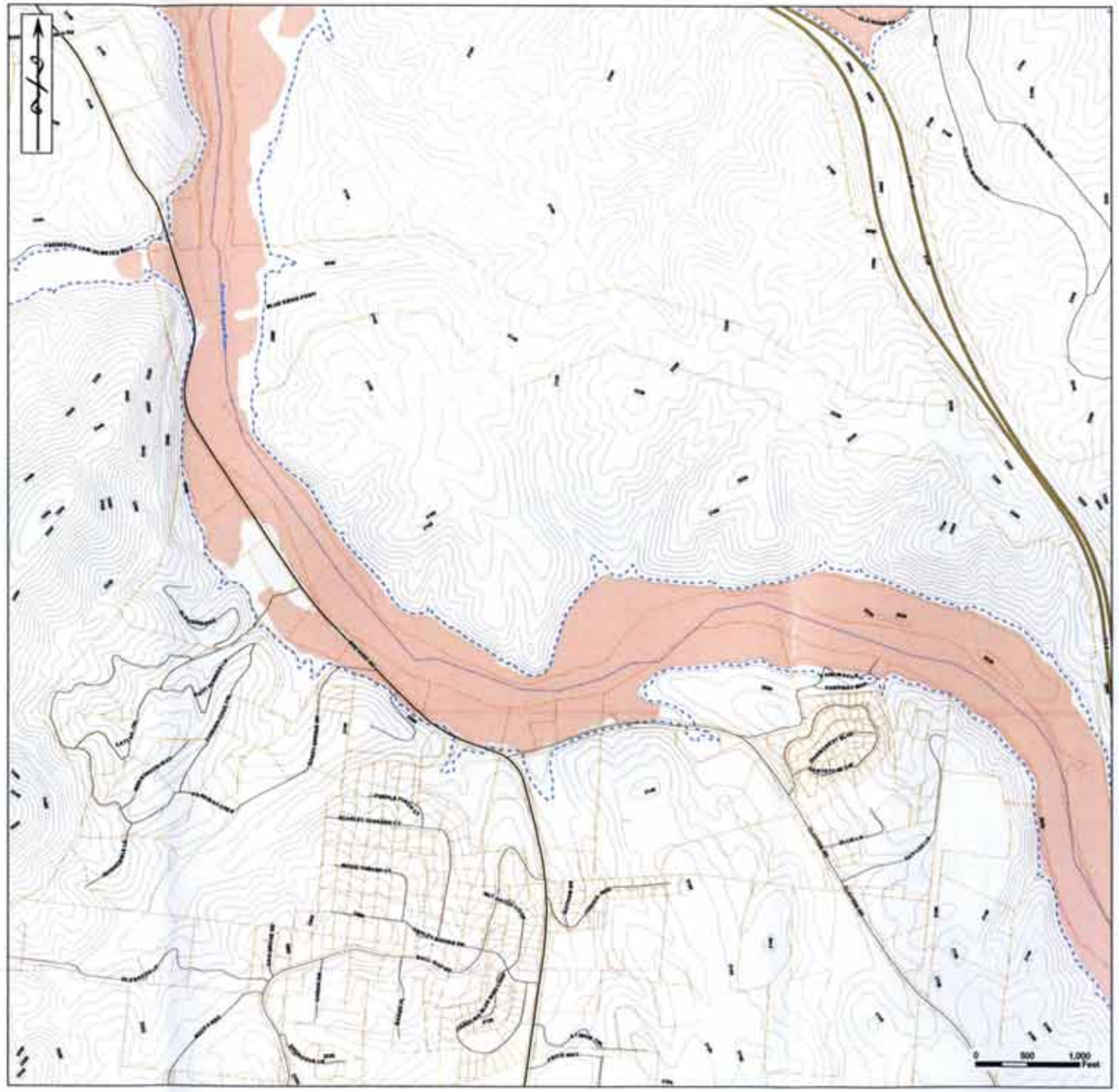
PROGRESS ENERGY - ASHEVILLE FACILITY
BUNCOMBE COUNTY, NORTH CAROLINA

DRAWN BY: CSR
CHECKED BY: JMB
APPROVED BY:
PROJECT NO: 1411-09-391
SCALE: AS SHOWN
DATE: 04/23/10
SHEET NO: 2
OF: 8

MAP A - INSET 1




MAP A - INSET 2




- Approximate IDF Breach Inundation
- 100-Year Floodplain
- Interstate
- US Highway
- NC Highway
- State Road
- French Broad River
- Lake Julian
- Tax Parcels
- 20-Foot Contours

**REFERENCE:**
STREET GIS DATA WAS OBTAINED FROM THE BUNCOMBE COUNTY GIS DEPARTMENT WEBSITE. THE FRENCH BROAD RIVER AND LAKE JULIAN GIS DATA WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET. FLOODPLAIN GIS DATA WAS OBTAINED FROM THE NC FLOODPLAIN MAPPING PROGRAM. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

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ASH BASIN IDF BREACH
INUNDATION MAP A - INSET MAPS

PROGRESS ENERGY - ASHEVILLE FACILITY
BUNCOMBE COUNTY, NORTH CAROLINA

| | |
|---|---|
| DRAWN BY | CKR |
| CHECKED BY | JMS |
| PROJECT NO. | 1411-09-087 |
| SCALE | AS SHOWN |
| DATE | 04/23/10 |
| DRAWING | 2A |
| OF | 8 |

SEE DRAWING 1A (MAP A - INSET 2)
SEE DRAWING 1A(MAP B - INSET 1)
Approximate IDF Breach Inundation
100-Year Floodplain
Progress Energy Asheville Facility
Interstate
US Highway
NC Highway
State Road
French Broad River
Tax Parcels
20-Foot Contours
1,000
2,000
Feet
REFERENCE:
STREET GIS DATA WAS OBTAINED FROM THE BUNCOMBE COUNTY GIS DEPARTMENT WEBSITE. THE FRENCH BROAD RIVER AND LAKE JULIAN GIS DATA WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET. FLOODPLAIN GIS DATA WAS OBTAINED FROM THE NC FLOODPLAIN MAPPING PROGRAM. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.
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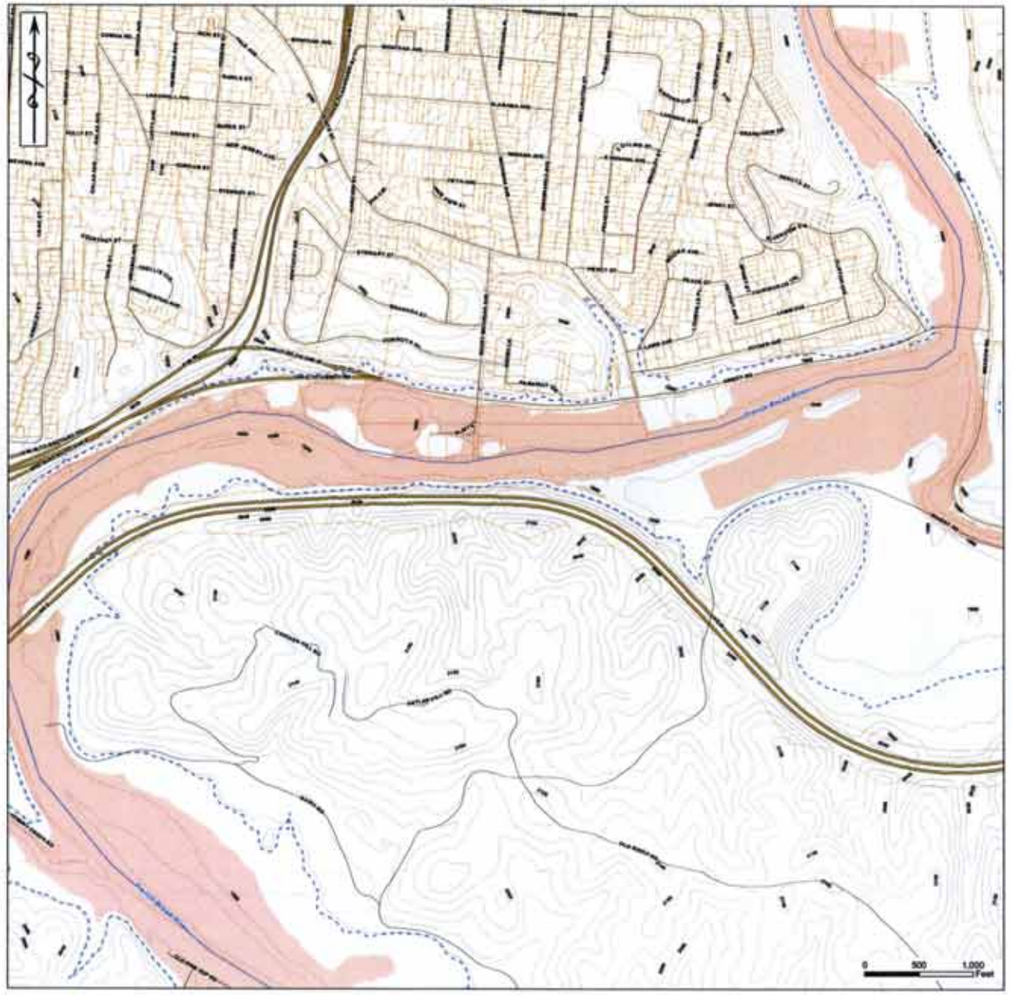
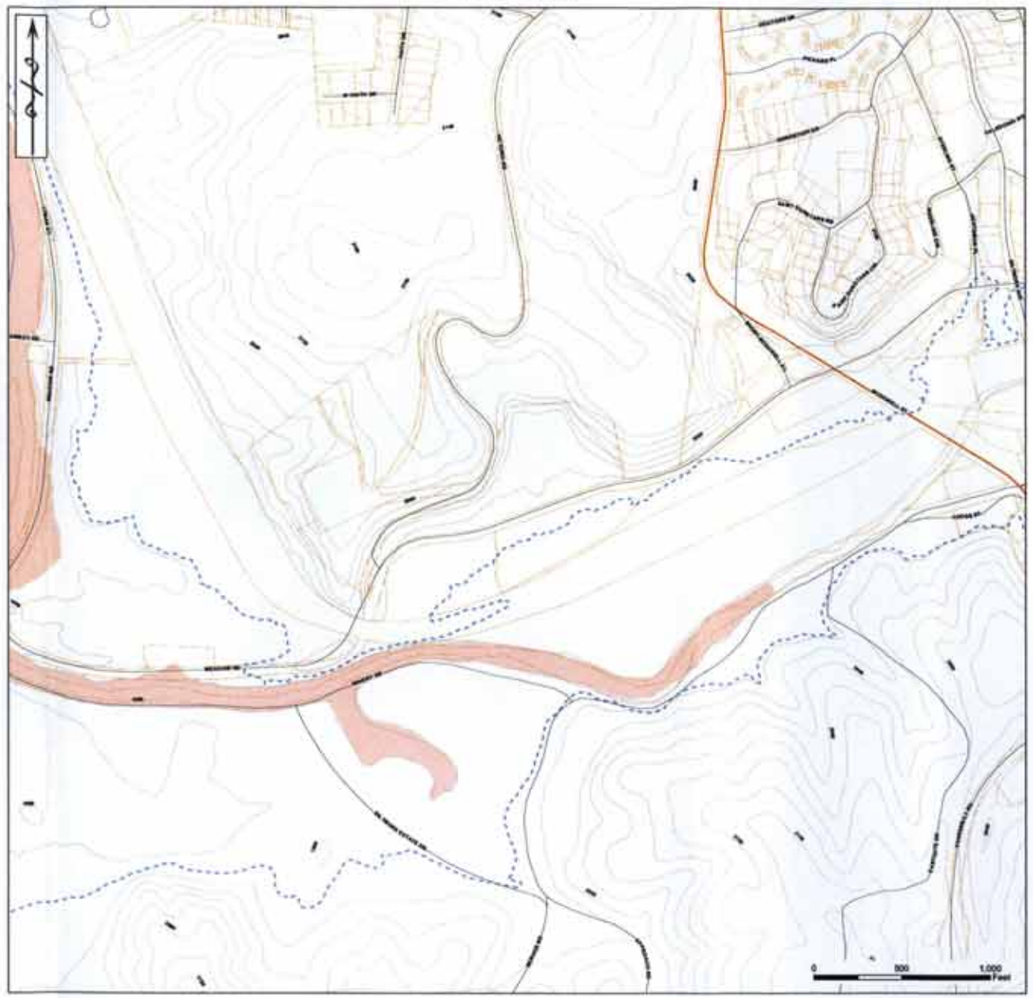
ASH BASIN IDF BREACH INUNDATION MAP B
PROGRESS ENERGY - ASHEVILLE FACILITY
BUNCOMBE COUNTY, NORTH CAROLINA
CKR
JMR
1411-09-081
AS SHOWN
3
8

MAP B - INSET 1




MAP B - INSET 2




Approximate IDF Breach Inundation
100-Year Floodplain
Interstate
US Highway
NC Highway
State Road
French Broad River
Tax Parcels
20-Foot Contours

REFERENCE:
STREET GIS DATA WAS OBTAINED FROM THE BUNCOMBE COUNTY GIS DEPARTMENT WEBSITE. THE FRENCH BROAD RIVER AND LAKE JULIAN GIS DATA WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET. FLOODPLAIN GIS DATA WAS OBTAINED FROM THE NC FLOODPLAIN MAPPING PROGRAM. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

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ASH BASIN IDF BREACH
INUNDATION MAP B - INSET MAPS

PROGRESS ENERGY - ASHEVILLE FACILITY
BUNCOMBE COUNTY, NORTH CAROLINA

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

| DRAWN BY | CHECKED BY |
|---|---|
| CKR | JMI |
| DESIGNED BY | APPROVED BY |
| — | |
| PROJECT NO. | |
| 1411-09-091 | |
| SCALE | DATE |
| AS SHOWN | 04/23/10 |
| DRAWING | OF |
| 3A | 8 |

SEE DRAWING 4A (MAP C - INSET 2)

SEE DRAWING 4A (MAP C - INSET 1)

Approximate IDF Breach Inundation
100-Year Floodplain
Progress Energy Asheville Facility
Interstate
US Highway
NC Highway
State Road
French Broad River
Tax Parcels
20-Foot Contours

0 1,000 2,000

REFERENCE:
STREET GIS DATA WAS OBTAINED FROM THE BUNCOMBE COUNTY GIS DEPARTMENT WEBSITE. THE FRENCH BROAD RIVER AND LAKE JULIAN GIS DATA WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET. FLOODPLAIN GIS DATA WAS OBTAINED FROM THE NC FLOODPLAIN MAPPING PROGRAM. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

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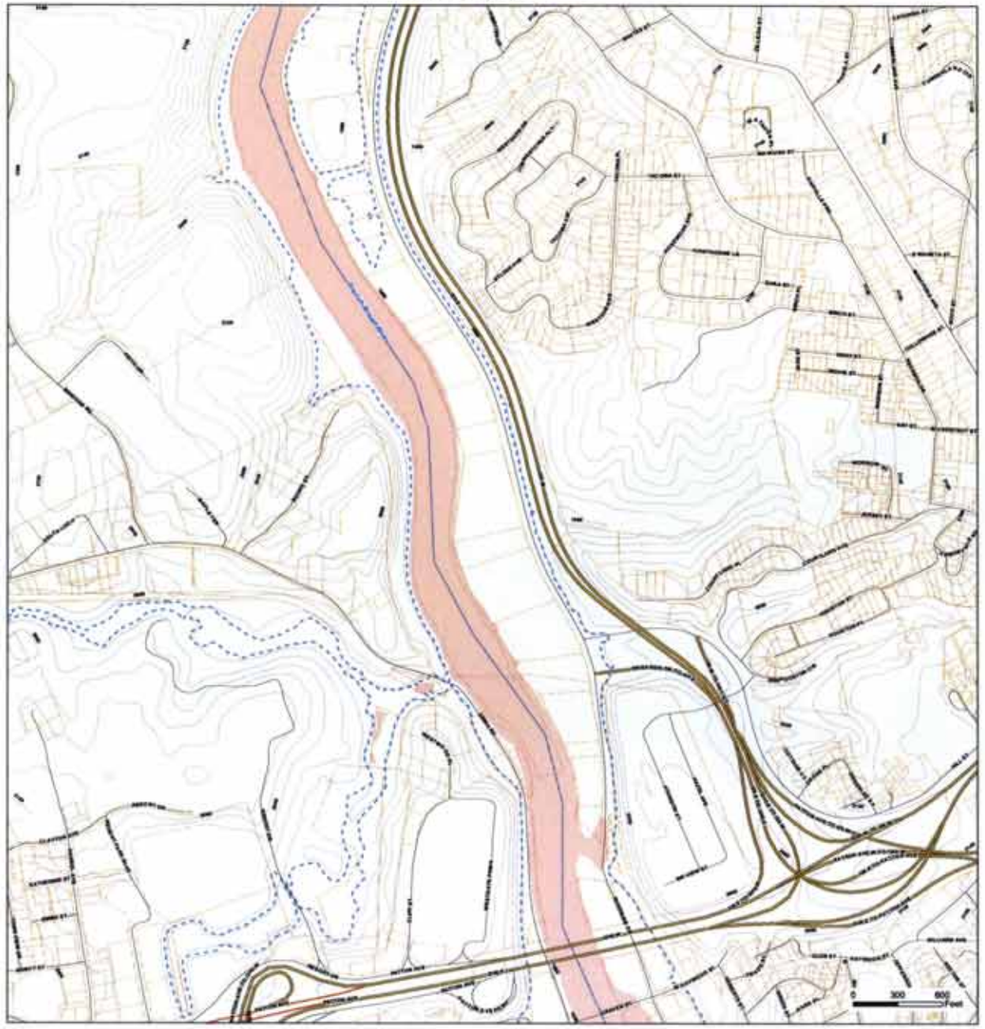
ASH BASIN IDF BREACH INUNDATION MAP C

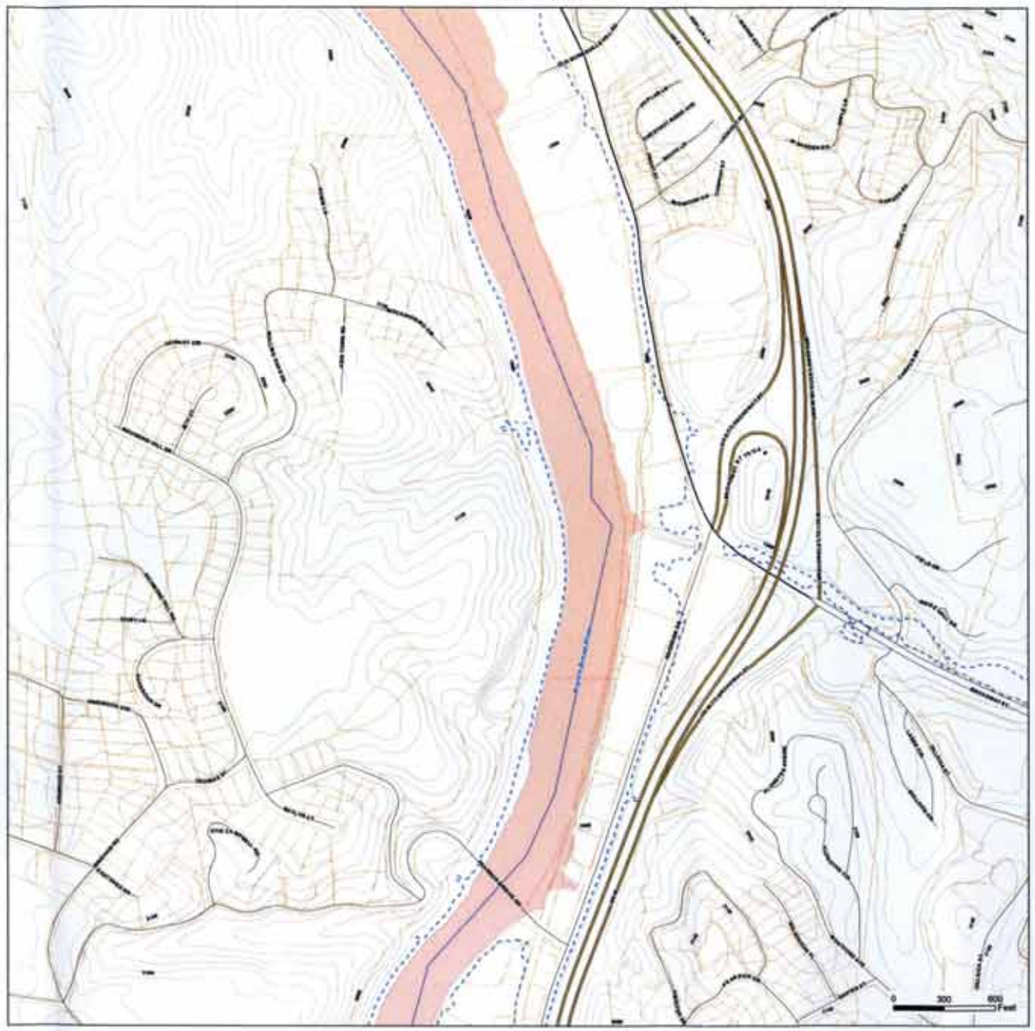
PROGRESS ENERGY - ASHEVILLE FACILITY
BUNCOMBE COUNTY, NORTH CAROLINA

DRAWN BY: CKR
CHECKED BY: JMR
REVISED BY:
APPROVED BY:
PROJECT NO: 1411-09-081
SCALE: AS SHOWN
DATE: 04/23/10
DRAWING: 4
OF: 8

MAP C - INSET 1




MAP C - INSET 2




- Approximate IDF Breach Inundation
- 100-Year Floodplain
- Interstate
- US Highway
- NC Highway
- State Road
- French Broad River
- Tax Parcels
- 20-Foot Contours

**REFERENCE:**
STREET GIS DATA WAS OBTAINED FROM THE BUNCOMBE COUNTY GIS DEPARTMENT WEBSITE. THE FRENCH BROAD RIVER AND LAKE JULIAN GIS DATA WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET. FLOODPLAIN GIS DATA WAS OBTAINED FROM THE NC FLOODPLAIN MAPPING PROGRAM. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

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ASH BASIN IDF BREACH
INUNDATION MAP C - INSET MAPS

PROGRESS ENERGY - ASHEVILLE FACILITY
BUNCOMBE COUNTY, NORTH CAROLINA

| DRAWN BY | CHECKED BY |
|---|---|
| CXR | JWR |
| REVIEWED BY | APPROVED BY |
| — | |

PROJECT NO.
1411-09-081

| SCALE | DATE |
|---|---|
| AS SHOWN | 04/23/10 |

| DRAWING | OF |
|---|---|
| 4A | 8 |

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|

Approximate IDF Breach Inundation
100-Year Floodplain
Progress Energy Asheville Facility
Interstate
US Highway
NC Highway
State Road
French Broad River
Tax Parcels
20-Foot Contours
S&ME
WWW.SMEINC.COM
ASH BASIN IDF BREACH INUNDATION MAP D
PROGRESS ENERGY - ASHEVILLE FACILITY
BUNCOMBE COUNTY, NORTH CAROLINA
1411-08-081
AS SHOWN
04/23/10
5
8

**Appendix Q**

Waste Manifests
Table 3 and Question 7

...form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

| ...AZARDOUS ...E MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|---|
| | NCD000830638 | 1 | Chemtec 800-424-9300 | 003373941 JJK |

...erator's Name and Mailing Address
Progress Energy Carolinas
200 CP&L Drive
Arden, NC 28704
828-687-5247

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Shamrock Environmental Corporation — U.S. EPA ID Number: NCD000942144

7. Transporter 2 Company Name: Advanced Environmental Options Inc — U.S. EPA ID Number: SCR000768671

8. Designated Facility Name and Site Address
Chemical Waste Management, Inc
36964 Alabama Highway 17
Emelle, AL 35459
205-652-9721

U.S. EPA ID Number: ALD000622464

Facility's Phone:

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|---|---|---|---|---|---|---|
| X | 1. RQ, NA3077, Hazardous Wate Solid, N.O.S. (lead) CH3692 9, PG III (RQ 10 lbs.) ERG #171 | 005 | DM | 00500 ~~00750~~ | P | D008 |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |

14. Special Handling Instructions and Additional Information
02-WHD-10-0237 5 x 55DM

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Laurie L. Moorhead — Signature: Laurie L. Moorhead — Month 2 Day 17 Year 10

**INT'L**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John F. Thomas — Signature: — Month 2 Day 17 Year 10

Transporter 2 Printed/Typed Name: MIKE PALMER — Signature: — Month 2 Day 17 Year 10

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Corrected Profile per Beth McElveen 4/13/10
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| H132 | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY TO GENERATOR

...int or type. (Form designed for use o... 12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

| UNIFORM HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|---|
| | NCD 000 830 638 | 1 | 1-800-881-1098 | 003373791 JJK |

5. Generator's Name and Mailing Address

Progress Energy Carolinas
200 CP&L Drive
Arden, NC 28704

Generator's Phone: (828) 687-5246

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Shamrock Environmental Corporation — U.S. EPA ID Number: NC0000942144

7. Transporter 2 Company Name: Advanced Environmental Options, Inc — U.S. EPA ID Number: SCR 000074575

8. Designated Facility Name and Site Address

Chemical Waste Management, INC.
36964 AL Hwy 17
Emelle, AL 35459

Facility's Phone:

U.S. EPA ID Number: ALD000622464

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|---|---|---|---|---|---|---|
| X | 1. UN 3432, Polychlorinated Biphenyls Solid, 9, PGIII RQ 1 lb. in ballast | 001 | DF | ~~020~~ 00044 | K | |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |

14. Special Handling Instructions and Additional Information

AL185456
9b.1. AL185456 PE-01
02-WHD-09-1053 OOS 9/28/09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Laurie L. Moorhead — Signature: Laurie L. Moorhead — Month 10 Day 09 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: M. Blake Webster — Signature: M. Blake Webster — Month 10 Day 09 Year 09

Transporter 2 Printed/Typed Name: Kim Garrett — Signature: Kim Garrett — Month 10 Day 13 Year 09

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type 10/29/09 ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Sec. 14 profile corrected per Beth Samrock via Shadate Burrell

18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| H132 | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Anna Gaines — Signature: Anna Gaines — Month 10 Day 09 Year 09

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

PA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

1044357 133414-09

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator ID Number: NCD 000 830 638
2. Page 1 of 3
3. Emergency Response Phone: 1-800-881-1098
4. Manifest Tracking Number: 003373790 JJK

5. Generator's Name and Mailing Address: Progress Energy Carloinas, 200 CP&L Drive, Arden, NC 28704

Generator's Site Address (if different than mailing address):

Generator's Phone: (828) 687-5246

6. Transporter 1 Company Name: Shamrock Environmental Corporation — U.S. EPA ID Number: NC0000042144

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Republic Env. Sys (PA), Inc., 2869 Sandstone Dr., Hatfield, PA 19440 — U.S. EPA ID Number: PAD085690502

Facility's Phone: (215) 822-8995

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
|---|---|---|---|---|---|---|---|---|
| X | 1. UN 1950, Waste Aerosols, 2.1 | 01 | DM | ~~00338~~ 00150 ~~0150~~ | ~~K~~ P | D001 | D035 | |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |

14. Special Handling Instructions and Additional Information

9b.1. 426159 ~~RLP# 4041~~ TL

02-WHD-09-1053 ~~order # 1043724~~ TL

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Laurie L. Moorhead — Signature: Laurie L. Moorhead — Month 10 Day 09 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: M. Blake Webster — Signature: M. Blake Webster — Month 10 Day 09 Year 09

Transporter 2 Printed/Typed Name: M. Blake Webster — Signature: [signature] — Month 10 Day 15 Year 09

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: KENNETH WALKER — Signature: [signature] — Month 10 Day 28 Year 09

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

...type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

**...FORM HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|
| NCD000830638 | 1 | 18004249300 | 004441686 JJK |

5. Generator's Name and Mailing Address
PROGRESS ENERGY CAROLINAS
200 CP&L DRIVE
ARDEN, NC 28704

Generator's Site Address (if different than mailing address)

Generator's Phone: 828-687-5247

6. Transporter 1 Company Name: SHAMROCK ENVIRONMENTAL CORPORATION — U.S. EPA ID Number: NC0000942144

7. Transporter 2 Company Name: CWM Transportation — U.S. EPA ID Number: ALD000622464

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
36964 ALABAMA HWY 17
EMELLE, AL 35459

U.S. EPA ID Number

Facility's Phone: 205-652-9721 — ALD000622464

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|---|---|---|---|---|---|---|
| X | 1. NA3077, HAZARDOUS WASTE SOLID, N.O.S. (LEAD), 9, PG III | 1 | DF | 20 | P | D008 |
| X | 2. UN3432, POLYCHLORINATED BIPHENYLS SOLID, 9, PG III | 1 | DF | 041 | K | |
| | 3. | | | | | |
| | 4. | | | | | |

14. Special Handling Instructions and Additional Information
9b.1. ~~CU-3692~~ [illegible]
9b.2. AL-185456 Out of Service Date: 10/5/2008, PE-01
02-WHD-09-0277

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Kevin L. Marshead — Signature: [signature] — Month 3 Day 3 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Anthony Wilson — Signature: [signature] — Month 3 Day 3 Year 09

Transporter 2 Printed/Typed Name: Jerry Watt — Signature: Jerry Watt — Month 03 Day 09 Year 09

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| 11132 | 11132 | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [signature] — Signature: [signature] — Month 03 Day 10 Year 09

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

# STRAIGHT BILL OF LADING – ORIGINAL – NOT NEGOTIABLE

Shipper's No. _____

Carrier's No. NC0000942144

Carrier SHAMROCK ENVIRONMENTAL CORPORATION | SCAC | Date

| TO: Consignee | PROGRESS ENERGY CAROLINAS | FROM: Shipper | PROGRESS ENERGY CAROLINAS |
|---|---|---|---|
| Street | 1406 MECHANICAL BLVD. | Street | 200 CP&L DR. |
| Destination | GARNER, NC Zip 27529 | Origin | ARDEN, NC Zip 28704 |
| Route | | Vehicle Number | U.S. DOT Hazmat Reg. No. 06260655201900 |

| Number and Type of Packages | HM | Description of Articles | Total Quantity (mass, volume, or activity) | Weight (subject to correction) | Class or Rate |
|---|---|---|---|---|---|
| 1 DF | X | UN3432, POLYCHLORINATED BIPHENYLS SOLID, 9, PG II, RQ (1 LB)<br>10 POUNDS | | | |

Scott Conrad
PEC
8-5-08

02-WND-08-0934

Laurie L. Moorhead Laurie L. Moorhead
08/04/08

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations; the Property described above, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

**NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).**

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: _____ CARRIER: _____

PER: _____ DATE: _____ PER: _____ DATE: _____

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

10-BLS-C4 492
(REV. 3/07)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator ID Number: CEBOG
2. Page 1 of 1
3. Emergency Response Phone: 800-535-5033
4. Manifest Tracking Number: 000968124 JJK

5. Generator's Name and Mailing Address
Progress Energy, Carolinas
200 CP & L Drive
Arden, NC 28704
Generator's Phone: 828-687-5240

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: A&D Environmental & Industrial
U.S. EPA ID Number: NCD986232221

7. Transporter 2 Company Name: HMHTK Responsive INC
U.S. EPA ID Number: NJR000011578

8. Designated Facility Name and Site Address
Clean Harbors Reidsville, LLC
208 Watlington Industrial Drive
Reidsville, NC 27320
Facility's Phone: 336-342-6106
U.S. EPA ID Number: NCD000648451

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
|---|---|---|---|---|---|---|---|---|
| X | 1. RQ, Hazardous waste, solid, n.o.s., (Lead), 9, NA3077, PGIII (D008) | 1 | DF | 5gal | G | D008 | | |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |

14. Special Handling Instructions and Additional Information
9b) PR2071-001 / ERG# 171 DC1341176
PO# GSO1117

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: SELENAH SEABROOKS
Signature: [signature]
Month 12 Day 5 Year 06

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Guy Summers
Signature: [signature]
Month 12 Day 05 Year 06
Transporter 2 Printed/Typed Name: [signature] Jason Gere
Signature: [signature]
Month 12 Day 05 Year 06

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H121 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05). Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

| UNIFORM HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|---|
| | CESQG | 1 | 800-434-7750 | 000265182 FLE |

GENERATOR

5. Generator's Name and Mailing Address
Progress Energy
200 CP&L Drive
Arden, NC 28704
Generator's Phone: 828-687-5240

Generator's Site Address (if different than mailing address)
Progress Energy
200 CP&L Drive
Arden, NC 28704

6. Transporter 1 Company Name: A&D Environmental
U.S. EPA ID Number: NCD984232221

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ECOFIO, Inc
2750 Patterson Street
Greensboro, NC 27407
Facility's Phone: 336-855-7023
U.S. EPA ID Number: NCD980842132

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|---|---|---|---|---|---|---|
| X | 1. Waste Paint Related Material 3, UN-1263, PG-II | 1 | DM | 55 | E | F003 D001 |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |

14. Special Handling Instructions and Additional Information
Approval # 36ABQ-01

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: SELEMAN TRAILBOOKS
Signature: [signature]
Month 12 Day 05 Year 06

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Guy Summers
Signature: [signature]
Month 12 Day 05 Year 06

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| [illegible] | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (pitch) typewriter.)

Form Approved OMB No. 2050-0039.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NCD000830638 Manifest Document No. 07196

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Progress Energy Co. 200 CP&L Drive Arden, N.C. 28704

4. Generator's Phone (828) 687-5240

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: A&D ENVIRONMENTAL

6. US EPA ID Number: NCD986232221

C. State Transporter's ID

D. Transporter's Phone (336) 434-7750

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: E.Q. North Carolina 1005 Investment Blvd. Apex, N.C. 27502

10. US EPA ID Number: NCD982170292

G. State Facility's ID

H. Facility's Phone (919) 363-4700

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|---|
| a. Hazardous waste, Solid, N.O.S. 9, NA3077, PG III (Lead) | | 2 | DM | 1000 | P | D008 |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above: 11a) NC 61445

K. Handling Codes for Wastes Listed Above: S01

15. Special Handling Instructions and Additional Information

Emergency Name & Number: Eric McManus @ (800) 434-7750

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Selenah Seabrooks | Signature: Selenah Seabrooks | Month Day Year: 07 19 06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Steve Flinchum | Signature: [signature] | Month Day Year: 07 19 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: SE | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Troy Ball | Signature: [signature] | Month Day Year: 07 28 06

GENERATOR / TRANSPORTER / FACILITY

Style CF 17 LABELMASTER® (800) 621-5808 www.labelmaster.com

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.



PRINTED ON RECYCLED PAPER USING SOYBEAN INK — PRINTED WITH SOY INK

ORIGINAL - RETURN TO GENERATOR

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

Emergency Contact Telephone Number
1-800 434-7750

Form Approved. OMB No. 2050-0039. Expires 9-30-99

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N.C.D.0.0.0.8.3.0.6.3.8
Manifest Document No. 6 2 0 0 6
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

**GENERATOR**

3. Generator's Name and Mailing Address
Progress Energy
200 CP&L Drive
Arden, N.C. 28704

4. Generator's Phone ( 828 ) 687-5240

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
ADD ENVIRONMENTAL

6. US EPA ID Number
N.C.D.9.8.6.2.3.2.2.2.1

C. State Transporter's ID

D. Transporter's Phone (336) 434-7750

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
E.Q. North Carolina
1005 Investment Blvd.
Apex, N.C. 27502

10. US EPA ID Number
N.C.D.9.8.2.1.7.0.2.9.2

G. State Facility's ID

H. Facility's Phone (919) 363-4700

| | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|---|---|
| a. | R.Q. WASTE Hazardous Solid, N.O.S. 9 NA 3077, PG.III (Lead) | X | 001 | DM | 55 00012 lbs | P | D008 |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
1/4) NC61445

K. Handling Codes for Wastes Listed Above
501

15. Special Handling Instructions and Additional Information
Emergency NAME & Number: Eric McManus @ (800) 434-7750

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimized the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Diane Elledge | Diane Elledge | 06 | 02 | 06 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Junior ESSARY | Junior Essary | 06 | 02 | 06 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Steve Tinnemeier | | 06 | 09 | 06 |

EPA Form 8700-22 (Rev. 9-96) Previous edition obsolete.

Emergency Contact Telephone Number
1-800-434-7750

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-99

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N.C.D.0.0.8.3.0.6.3.8
Manifest Document No.: 0.4.2.3.6
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

**GENERATOR**

3. Generator's Name and Mailing Address
Progress Energy
200 CPSL Drive
Arden, N.C. 28704

4. Generator's Phone ( 828 ) 687-5240

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: A&D ENVIRONMENTAL
6. US EPA ID Number: N.C.D.9.8.6.2.3.2.7.2.1
C. State Transporter's ID
D. Transporter's Phone: (336) 434-7950

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
E.Q. North Carolina
1005 Investment Blvd.
Apex, N.C. 27502
10. US EPA ID Number: N.C.D.9.8.2.1.7.0.2.9.2
G. State Facility's ID
H. Facility's Phone: (919) 363-4700

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | HM | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|---|
| a. RQ. Hazardous waste Solid, N.O.S. 9, NA3077, PG III (Lead) | X | 001 | DM | 00050 | P | D008 |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
11A) NC61445

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Name & Number: Eric McManus @ (800) 434-7750

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimized the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: SELENAH SEABROOKS
Signature
Month Day Year: 04 23 06

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RICK TRAUGHBER
Signature
Month Day Year: 04 23 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Richard Joyce
Signature
Month Day Year: 04 28 06

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: PATRICK HUDSON
Signature
Month Day Year: 04 28 06

EPA Form 8700-22 (Rev. 9-96) Previous edition obsolete.

ORIGINAL — RETURN TO GENERATOR

7-BLS-C6 (Rev. 10/96)

12560-C

# South Carolina Department of Health and Environmental Control

154831

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 896-4000
Emergency & Holidays: (803) 253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. / Manifest Document No.: N C D 0 0 0 8 3 0 6 3 8 0 8 0 8 5

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
Progress Energy Company
200 CP&L DRIVE
ARDEN, NC 28704
4. Generator's Phone ( 828 ) 687-5240

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: A&D ENVIRONMENTAL & INDUSTRIAL
6. U.S. EPA ID Number: N C D 9 8 6 2 3 2 2 2 1

C. State Transporter's ID

D. Transporter's Phone (800) 434-7750

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Southeastern Chemical & Solvent
755 INDUSTRIAL ROAD
SUMTER, SC 29151

10. U.S. EPA ID Number: S C D 0 3 6 2 7 5 6 2 6

G. State Facility's ID

H. Facility's Phone (803) 773-1400

| 11. U.S. Dot Description (including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste Number |
|---|---|---|---|---|---|
| a. WASTE FLAMMABLE LIQUIDS, N.O.S. 3, UN1993, PG II, ERG# 128 (ACETONE) | 001 | DM | 500 | P | D001 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
11A) S/E 80807

K. Handling Codes for Wastes Listed Above
(SOL) ATD

15. Special Handling Instructions and Additional Information
Emergency Contact & Phone number: Eric McManue @ 800-434-7750

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| SELENA A SEABROOKS | Selena A Seabrooks | 09 | 08 | 05 |

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Type Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Richard Joyce | Richard Joyce | 09 | 08 | 05 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

FACILITY

19. Discrepancy Indication Space

a 500 lbs. c lbs.

b lbs. d lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

12560-C1

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| NCD000830638 | 1 | 800-881-1098 | 00001 |

**GENERATOR**

5. Generator's Name and Mailing Address
Progress Energy Carolinas
200 CP&L Drive
Arden, NC 28704
828-687-5240
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Shamrock Environmental Corporation — U.S. EPA ID Number: NC0000942144

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Veolia Environmental Services
342 Harpan Lane
Tallahassee, FL 32305
850-878-2259
Facility's Phone:
U.S. EPA ID Number: FL0000207449

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | UN2795, Batteries Wet, Filled with Acid, 8, PG III | 1 | CW | 300 | P | |
| 2. | UN2809, Mercury Contained in Manufactured Articles, 8, PG II | 2 | F | 2 | P | |
| 3. | [illegible] | 1 | CF | 40 | P | |
| 4. | [illegible] | 1 | CF | 0 | P | |

13. Special Handling Instructions and Additional Information
02-WND-10-0558

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name — Signature — Month 5 — Day 28 — Year 10

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name [illegible] — Signature — Month 5 — Day 28 — Year 10
Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

**DESIGNATED FACILITY**

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month — Day — Year

12560-E-01

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| NCD000830638 | 1 | 800-881-1098 | [illegible]002 |

**GENERATOR**

5. Generator's Name and Mailing Address
Progress Energy Carolinas
200 CP&L Drive
Arden, NC 28704
828-687-5240

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Shamrock Environmental Corporation — U.S. EPA ID Number: NC0000942144

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Veolia Environmental Services
342 Marpan Lane
Tallahassee, FL 32305
850-878-2259

U.S. EPA ID Number: FL0000207449

Facility's Phone:

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. |
|---|---|---|---|---|---|
| 1. | [illegible] WASTE [illegible] 10 yd | 1 | CF | 10 | P |
| 2. | [illegible] | 1 | DF | 20 | P |
| 3. | [illegible] | 1 | DF | 30 | P |
| 4. | [illegible] | 2 | [illegible] | [illegible] | P |

13. Special Handling Instructions and Additional Information

02-WND-10-0558

**14. GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name | Signature | Month 5 | Day 28 | Year 10

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tony Wilson | Signature | Month 5 | Day 28 | Year 10

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

12560-C-01

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Document Number |
|---|---|---|---|
| NCD000830638 | 1 | 800-881-1098 | 05 2910 |

**GENERATOR**

5. Generator's Name and Mailing Address
Progress Energy Carolinas
200 CP&L Drive
Arden, NC 28704
828-687-5240
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
SHAMROCK ENVIRONMENTAL CORPORATION
U.S. EPA ID Number
N.C.0.0.0.0.9.4.2.1.4.4

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
SHAMROCK ENVIRONMENTAL CORPORATION
519 PATTON AVE., GREENSBORO, NC 27406
(336)-375-1989
Facility's Phone:
U.S. EPA ID Number
N.C.D.9.9.1.2.7.7.7.3.2

| HM | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | Approval Codes |
|---|---|---|---|---|---|---|
| | 1. Non-Hazardous, Non-Regulated Material (oily rags) | 4 | DM | 800 | P | 2005-0304-04 |
| | 2. NOn-Hazardous, Non-Regulated Material (oily rock) | 6 | DM | 3600 | P | 2005-0216-04 |
| | 3. | | | | | |
| | 4. | | | | | |

SHAMROCK ENVIRONMENTAL CORPORATION

13. Special Handling Instructions and Additional Information

Power Unit ST4 Trailer #

Job # 02-WND-10-0558

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: LAURIE L.MOORHEAD
Signature: Laurie L. Moorhead
Month 5 Day 28 Year 10

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Anthony Wilson
Signature:
Month 5 Day 28 Year 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

| 9.1 | 9.2 | 9.3 | 9.4 |
|---|---|---|---|
| HM84 | HM84 | | |

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Ray Southern
Signature: Ray Southern
Month 6 Day 1 Year 10

DESIGNATED FACILITY TO GENERATOR

C-01

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|---|
| | NCD000830638 | 1/2 | 800-881-1098 | 00001 |

5. Generator's Name and Mailing Address
Progress Energy Carolinas
200 CP&L Drive
Arden. NC 28704
828-687-5247

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: SHamrock Environmental Corporiaton — U.S. EPA ID Number: NC0000942144

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Veolia Environmental Services
342 Marpan Lane
Tallahassee, FL 32305
866-877-8299

U.S. EPA ID Number: FL0000207449

Facility's Phone:

| 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. |
|---|---|---|---|---|
| 1. UN2800, Batteries, Wet, Non-Spillable, 8, PG III ERG # 154 | 001 | DF | 00050 | P |
| 2. UN3090, Lithium Batteries, 9, PG II ERG # 238 | 001 | DF | 00010 | P |
| 3. Universal Waste Batteries Batteries, Dry, Sealed, N.O.S. (Nickel/Cadmium Batteres) | 001 | DF | 00005 | P |
| 4. Universal Waste batteries Batteries, Dry, Sealed, N.O.S (Alkaline Battereis) | 001 | DF | 00050 | P |

13. Special Handling Instructions and Additional Information

02-WHD-10-0237
24 Hour Emergency Responder : Chemtec 800-424-9300

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Laurie L. Moorhead — Signature: Laurie L. Moorhead — Month 2 Day 17 Year 10

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John F. Thomas — Signature: John F. Thomas — Month 2 Day 17 Year 10

Transporter 2 Printed/Typed Name: James Nippor — Signature: James Nippor — Month 03 Day 23 Year 10

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Albert Head — Signature: [signature] — Month 04 Day 08 Year 10

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N.C.D.0.0.0.8.3.0.6.3.8 | Manifest Document No. 0.0.0.0.1 | 2. Page 1 of 2/2

3. Generator's Name and Mailing Address: Progress Energy Carolinas, 208 CP&L Dr., Arden, NC 28704

4. Generator's Phone ( ): 828-687-5247

5. Transporter 1 Company Name: Shamrock Envi Corp. | 6. US EPA ID Number: N.C.0.0.0.0.9.4.2.1.4.4 | A. Transporter's Phone: 336-375-1989

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address: Veolia Environmental Services, 342 Marpan Lane, Tallahassee, FL 32305 | 10. US EPA ID Number: FL0000207449 (~~8.6.6.8.7.7.8299~~) | C. Facility's Phone: 866-877-8299

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Universal waste lamps, 4' lamps 36 bulbs. | 001 | CF | 00030 | P |
| b. Universal waste lamps, 8' Lamps 37 lamps | 001 | CF | 00045 | P |
| c. Universal waste Lamps, Metal Halide 72 lamps | 001 | CF | 00025 | P |
| d. UN2809, Mercury, contained in manufactured articles, 8, III | 001 | DF | 00005 | P |

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Laurie L. Moorhead | Signature: Laurie L. Moorhead | Month 10 Day 21 Year 10

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John F. Thomas | Signature: John F. Thomas | Month 10 Day 21 Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Nipper | Signature: James Nipper | Month 10 Day 23 Year 10

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month . Day . Year .

GENERATOR / TRANSPORTER / FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

12-BLC-M6

12560-C-01

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NCD006830638
Manifest Document No.:
2. Page 1 of: 1-800-422-9300

3. Generator's Name and Mailing Address: Progress Energy Car. 200 CP+L Dr Arden, NC 28704
4. Generator's Phone (826) 687-5240

5. Transporter 1 Company Name: Shamrock Environmental
6. US EPA ID Number: NCD000094214 4
A. Transporter's Phone: 336-375-1989

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address: Veolia Environmental 342 Marpan Ln Tallahassee, Fl 32305
10. US EPA ID Number: FL000020269
C. Facility's Phone: 650-878-2239

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. ~~Universal Waste Lamp (4')~~ (M) | | | | |
| b. Mercury Contained in Manufactured Articles 8, UN2809, PG III | ✓ 1 | DF | 10 | P |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above:
E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information

11b) 1x 5gal Pail

02-WND-09-1276

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Laurie L. Moorhead | Laurie L. Moorhead | 12 | 07 | 09 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Anthony Wilson | [signature] | 12 | 07 | 09 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| James Nipper | [signature] | 01 | 27 | 10 |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Albert Head | [signature] | 02 | 08 | 10 |

GENERATOR / TRANSPORTER / FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

12-BLC-M6

12560-C-01

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NCD 000 830 638 | Manifest Document No. | 2. Page 1 of 1 | 10909

3. Generator's Name and Mailing Address
Progress Energy Carolinas
200 CP&L Drive
Arden, NC 28704

4. Generator's Phone ( 828) 687-5246

5. Transporter 1 Company Name: Shamrock Environmental Corporation
6. US EPA ID Number: NC0000942144
A. Transporter's Phone: (336) 375-1989

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Veolia Environmental Services
342 Marpan Lane
Tallahassee, FL 32305
10. US EPA ID Number: FL0000207449
C. Facility's Phone: (850) 878-2259

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. ~~UN, Lithium Battery, 9, PGII~~ (CN) | | | | P |
| b. UN 2800, Batteries, Wet, Nonspillable,8, PGIII | 004 | DF | 0160 | P |
| c. Alkaline Batteries, DOT non-regulated | 002 | DF | 0060 | P |
| d. ~~Universal Waste Lamps (UV Lamps)~~ _____ Tubes | | | | P |

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
02-WHD-09-1053

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Laurie L. Moorhead | Laurie L Moorhead | 10 | 09 | 09 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| M. Blake Webster | M Blk Wet | 10 | 09 | 09 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| James Nipper | James Nipper | 10 | 20 | 09 |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Linda Dunwoody | Linda Dunwoody | 10 | 8 | 09 |

GENERATOR — TRANSPORTER — FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

12-BLC-M6

12560-C-01

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(Form designed for use on elite (12-pitch) typewriter.)

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NCD 000 830 638 | Manifest Document No. | 2. Page 1 of 1 | 10099

3. Generator's Name and Mailing Address
Progress Energy Carolinas
200 CP&L Drive
Arden, NC 28704

4. Generator's Phone ( 828 ) 687-5246

5. Transporter 1 Company Name: Shamrock Environmental Corporation
6. US EPA ID Number: NC0000942144
A. Transporter's Phone: (336) 375-1989

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Veolia Environmental Services
342 Marpan Lane
Tallahassee, FL 32305
10. US EPA ID Number: FL0000207449
C. Facility's Phone: (850) 878-2259

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Universal Waste Lamps (4') 08 Tubes | 001 | DF | 00050 | P |
| b. Universal Waste Lamps (4' U-Shaped 09 Tubes | 001 | DF | 00050 | P |
| c. Universal Waste Lamps (8') 242 Tubes | 006 | DF | 00200 | P |
| d. Universal Waste Lamps (Metal Halides) + 20 Sodium Bulbs 062 Tubes | 001 | DF | 00050 | P |

D. Additional Descriptions for Materials Listed Above
Universal Waste Lamps (6')
025 Tubes

E. Handling Codes for Wastes Listed Above
001 DF 00050 P

15. Special Handling Instructions and Additional Information
02-WHD-09-1053

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: Laurie L. Moorhead | Signature: Laurie L. Moorhead | Month Day Year: 10 09 09

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: M. Blake Webster | Signature: M. Blake Webster | Month Day Year: 10 09 09

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Nipper | Signature: James Nipper | Month Day Year: 12 02 09

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Linda Dunwoody | Signature: Linda Dunwoody | Month Day Year: 12 07 09

GENERATOR / TRANSPORTER / FACILITY

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Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

12-BLC-M6

12560-C-01

9-80059-02

D-09172270

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No. 0.0.0.1

2. Page 1 of 1

3. Generator's Name and Mailing Address: Progress Energy 200 CP&L Dr. Asheville Plant

4. Generator's Phone (828) 687-5239 Arden N.C. 28704

5. Transporter 1 Company Name: NEO Corporation

6. US EPA ID Number: NCR 00000 9423

A. Transporter's Phone: (828) 456-4332

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address: JBR 210 Alice ST Spartanburg S.C. 29305

10. US EPA ID Number

C. Facility's Phone: 864-583-2717

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. NON Reg Waste N.O.S (Water & mud) | 01 | VT | 1200 | GAL |
| b. | | | | |
| c. | | | | |
| d. | | | | |

WWT sump Sump — pumped dry sludge / clarifier tank PMs / inspection.

D. Ac

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Emtpy WT 27760 lbs

Full WT 37708 lbs = 9948 lbs

4.97 Tons

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Mark Laughter

Signature: Mark E Laughter

Month 09 Day 17 Year 09

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mike Holt

Signature: Mike Holt

Month 09 Day 17 Year 09

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

Approved for Disposal. NP-0909104, WM3219.

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

JBR, Inc.

Printed/Typed Name: MARK A. SCHOOLCRAFT

Signature: Mark A Schoolcraft

Month 9 Day 17 Year 09

GENERATOR

TRANSPORTER

FACILITY

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Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

12 PLS 0312 Rev. 12/98

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# NON-HAZARDOUS WASTE MANIFEST

| 1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of |
|---|---|---|
| N C D 0 0 0 8 3 0 6 3 8 | 03391 | |

3. Generator's Name and Mailing Address
PROGRESS ENERGY CAROLINAS
200 CP&L DRIVE
ARDEN, NC 28704

4. Generator's Phone ( 828 ) 687-5247

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| SHAMROCK ENVIRONMENTAL CORPORATION | N C 0 0 0 0 9 4 2 1 4 4 | 336-375-1989 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| VEOLIA ENVIRONMENTAL SERVICES<br>342 MARPAN LANE<br>TALLAHASSEE, FL 32305 | F L 0 0 0 2 0 7 4 4 9 | 850-878-2259 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. UN2794, BATTERIES WET, FILLED WITH ACID, 8, PG III | 2 | DF | 150 | P |
| b. NON-HAZARDOUS, NON-REGULATED MATERIAL (ALKALINE BATTERIES) | 1 | DF | 50 | P |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

02-WHD-09-0277

**GENERATOR**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Laurie L. Moorhead — Signature: Laurie L. Moorhead — Month 10 Day 03 Year 09

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Anthony Wilson — Signature — Month 10 Day 03 Year 09

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Nipper — Signature: James Nipper — Month 10 Day 07 Year 09

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Linda Dunwoody — Signature: Linda Dunwoody — Month 10 Day 15 Year 09

ORIGINAL - RETURN TO GENERATOR

12-BLC-M6

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# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N.C.D.0.0.8.3.0.6.3.8. .
Manifest Document No. 2.3.10
2. Page 1 of

3. Generator's Name and Mailing Address
PROGRESS ENERGY CAROLINAS
200 CP&L DRIVE
ARDEN, NC 28704

4. Generator's Phone ( 828 ) 687-5247

5. Transporter 1 Company Name
SHAMROCK ENVIRONMENTAL CORPORATION

6. US EPA ID Number
N.C.0.0.0.0.9.4.2.1.4.4. .

A. Transporter's Phone
336-375-1989

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
VEOLIA ENVIRONMENTAL SERVICES
342 MARPAN LANE
TALLAHASSEE, FL 32305

10. US EPA ID Number
F.L.0.0.0.0.2.0.7.4.4.9. .

C. Facility's Phone
850-878-2259

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. UNIVERSAL WASTE LAMPS 4' LAMPS 139 TUBES | 2 | CF | 100 | P |
| b. UNIVERSAL WASTE LAMPS 8' LAMPS 87 TUBES | 1 | CF | 50 | P |
| c. UNIVERSAL WASTE LAMPS (Curved Lamps) 39 TUBES | 2 | CF | 80 | P |
| d. UNIVERSAL WASTE LAMPS (HIDs) ~~[illegible]~~ LAMPS 52 | 1 | CF | 40 | P |

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

02-WHD-09-0277

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Laurie L. Muschead
Signature: Laurie L. Muschead
Month 03 Day 03 Year 09

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Anthony Wilson
Signature:
Month 03 Day 03 Year 09

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: ~~[illegible]~~ James Nipper
Signature: James Nipper
Month 04 Day 07 Year 09

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Linda Dunwoody
Signature: Linda Dunwoody
Month 04 Day 15 Year 09

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL - RETURN TO GENERATOR

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12-BLC-M6

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator ID Number: N C D 0 0 0 8 3 0 6 3 8
2. Page 1 of: 1
3. Emergency Response Phone: 03633
4. Manifest Document Number:

5. Generator's Name and Mailing Address: PROGRESS ENERGY CAROLINAS, 200 CP&L DRIVE, ARDEN, NC 28704
Generator's Site Address (if different than mailing address):
Generator's Phone: 828-687-5247

6. Transporter 1 Company Name: SHAMROCK ENVIRONMENTAL CORPORATION
U.S. EPA ID Number: N.C.0.0.0.0.9.4.2.1.4.4

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: SHAMROCK ENVIRONMENTAL CORPORATION, 519 PATTON AVE., GREENSBORO, NC 27406, (336)-375-1989
U.S. EPA ID Number: N.C.D.9.9.1.2.7.7.7.3.2
Facility's Phone:

| HM | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | Approval Codes |
|---|---|---|---|---|---|---|
| | 1. NON-HAZARDOUS, NON-REGULATED MATERIAL (OILY GRAVEL) | 1 | DM | 500 | P | 2005-0216-04 |
| | 2. NON-HAZARDOUS, NON-REGULATED MATERIAL (OILY ABSORBANTS) | 1 | DM | 150 | P | 2005-0304-04 |
| | 3. NON-HAZARDOUS, NON-REGULATED MATERIAL (OILS) | 1 | DM | 200 | P | 2005-0306-02 |
| | 4. | | | | | |

13. Special Handling Instructions and Additional Information

Power Unit _____ Trailer # _____

Job # 02-WHD-09-0277

**14. GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Laurie L. Muirhead
Signature: Laurie L. Muirhead
Month 3 Day 3 Year 09

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter Signature (for exports only): Date leaving U.S.: _____

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Anthony Wilson
Signature:
Month 3 Day 3 Year 0

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Y

| 9.1 | 9.2 | 9.3 | 9.4 |
|---|---|---|---|
| 1mo4 | 1mo4 | 1mo5 | |

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Dennis Jones
Signature:
Month Day Y

DESIGNATED FACILITY TO GENERA

Print or type
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# NON-HAZARDOUS WASTE MANIFEST

| 1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 1 |
|---|---|---|
| | | |

**GENERATOR**

3. Generator's Name and Mailing Address: PROGRESS ENERGY CAROLINAS
200 CP&L DR.
ARDEN, NC 28704

4. Generator's Phone (828 )687-5240

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| SHAMROCK ENVIRONMENTAL CORPORATION | N.C.0.0.0.0.9.4.2.1.4.4. . | 336-375-1989 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | . . . . . | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| VEOLIA ENVIRONMENTAL SERVICES<br>342 MARPAN LANE<br>TALLAHASSEE, FL 32305 | F.L.0.0.0.2.0.7.4.4.9. . | 850-878-2259 |

| 11. Waste Shipping Name and Description | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. UNIVERSAL WASTE LAMPS (GREATER THAN 4' 65 ) | 005 | CP | 40 | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

| D. Additional Descriptions for Materials Listed Above | E. Handling Codes for Wastes Listed Above |
|---|---|
| | |

15. Special Handling Instructions and Additional Information

02-WND-08-0934

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Laurie L. Moorhead | Laurie L. Moorhead | 10 | 8 | 08 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| James Nipper | | 10 | 9 | 08 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Brenna Henley | | 10 | 10 | 08 |

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ORIGINAL - RETURN TO GENERATOR

12-BLC-M6

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone: 1-800-881-1098

4. Manifest Document Number

**GENERATOR**

5. Generator's Name and Mailing Address: PROGRESS ENERGY CAROLINAS
200 CP&L DR.
ARDEN, NC 28704

Generator's Site Address (if different than mailing address)

Generator's Phone: 828-687-5240

6. Transporter 1 Company Name: **SHAMROCK ENVIRONMENTAL CORPORATION**

U.S. EPA ID Number: N.C.0.0.0.0.9.4.2.1.4.4

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**SHAMROCK ENVIRONMENTAL CORPORATION**
519 PATTON AVE., GREENSBORO, NC 27406
(336)-375-1989

U.S. EPA ID Number: N.C.D.9.9.1.2.7.7.7.3.2

Facility's Phone:

| HM | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | Approval Codes |
|---|---|---|---|---|---|---|
| | 1. NON-HAZARDOUS, NON-REGULATED MATERIAL (PARTS WASH FLUID) | 1 | DM | 250 | P | 2008-0244-12 |
| | 2. NON-HAZARDOUS, NON-REGULATED MATERIAL (PARTS WASH FLUID) | 2 | DF | 40 | P | 2008-0244-12 |
| | 3. Parts wash fluid (spent paint) | 2 | DF | 40 | P | 2008-0244-12 |
| | 4. | | | | | |

13. Special Handling Instructions and Additional Information

91. 55-Gal 92. 5-Gal

Power Unit _____ Trailer # _____

Job # 02-WND-08-0934

**14. GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Laurie L. Moorhead

Signature: Laurie L. Moorhead

Month 08 Day 04 Year 08

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____

Transporter Signature (for exports only): Date leaving U.S.: _____

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Anthony Wilson

Signature

Month 08 Day 04 Year 08

Transporter 2 Printed/Typed Name

Signature

Month Day Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

| 9.1 | 9.2 | 9.3 | 9.4 |
|---|---|---|---|
| 1/mo 5 | 1/mo 5 | | |

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Nathan Hoover

Signature

Month 8 Day 4 Year 08

DESIGNATED FACILITY TO GENERATOR

8-01

# NON-HAZARDOUS WASTE MANIFEST

| 1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 1 |
|---|---|---|
| | | |

3. Generator's Name and Mailing Address: PROGRESS ENERGY CAROLINAS
200 CP&L DR.
ARDEN, NC 28704

4. Generator's Phone 828 687-5240

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| SHAMROCK ENVIRONMENTAL CORPORATION | NC0000942144 | 336-375-1989 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| VEOLIA ENVIRONMENTAL SERVICES<br>342 MARPAN LANE<br>TALLAHASSEE, FL 32305 | FL0000207449 | 850-878-2259 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. UN2794, BATTERIES WET, FILLED WITH ACID, 8, PG III | ✓ 0.01 | D.F | .90 | P |
| b. Batteries Dry, (Alkaline Batteries) | ✓ .1 | D.F | 8.0 | P |
| c. UNIVERSAL WASTE LAMPS (METAL HALIDE 26 BULBS) | 0.1 | C.F | .20 | P |
| d. UNIVERSAL WASTE LAMPS (LESS THAN 4' ~~4ft.~~ 25¢) | ~~0.01~~ 7 | C.F | .50 | P |

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

02-WND-08-0934

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Laurie L. Moorhead | Laurie L. Moorhead | 09 | 04 | 08 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Anthony Wilson | | 09 | 04 | 08 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| James Nipper | James Nipper | 09 | 04 | 08 |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Tajuna Henley | | | | |

GENERATOR / TRANSPORTER / FACILITY

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Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

12-BLC-M6

13560 C-01

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Document Number |
|---|---|---|---|
| | 1 | 800-551-1098 | 04165 |

5. Generator's Name and Mailing Address
PROGRESS ENERGY CAROLINAS
200 CP&L DR.
ARDEN, NC 28704

Generator's Site Address (if different than mailing address)

Generator's Phone: 828-687-5240

6. Transporter 1 Company Name
**SHAMROCK ENVIRONMENTAL CORPORATION**

U.S. EPA ID Number
N.C.0.0.0.0.9.4.2.1.4.4

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**SHAMROCK ENVIRONMENTAL CORPORATION**
**519 PATTON AVE., GREENSBORO, NC 27406**
**(336)-375-1989**
Facility's Phone:

U.S. EPA ID Number
N.C.D.9.9.1.2.7.7.7.3.2

| HM | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | Approval Codes |
|---|---|---|---|---|---|---|
| | 1. NON-HAZARDOUS, NON-REGULATED MATERIAL (OILY WATER) | 003 | DM | 01000 | P | 2005-0305-02 |
| | 2. NON-HAZARDOUS, NON-REGULATED MATERIAL (OILY ABSORBANT) | 001 | DM | 00100 | P | 2005-0304-04 |
| | 3. NON-HAZARDOUS, NON-REGULATED MATERIAL (ETHYLENE GLYCOL) | 003 | DM | 00900 | P | 2005-0322-19 |
| | 4. NON-HAZARDOUS, NON-REGULATED MATERIAL (OILY ROCKS) | 001 | DM | 00300 | P | 2005-0216-04 |

13. Special Handling Instructions and Additional Information

Power Unit ST04 Trailer #

Job # 02-WND-08-0509

**14. GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Laurie L. Moorhead
Signature: Laurie L. Moorhead
Month 4 Day 16 Year 08

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TRACY PETERSON
Signature:
Month 04 Day 16 Year 08

Transporter 2 Printed/Typed Name
Signature
Month Day Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

| 9.1 | 9.2 | 9.3 | 9.4 |
|---|---|---|---|
| 1M01 | 1M04 | 1M08 | 1M04 |

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Nathan Hoover
Signature:
Month 4 Day 21 Year 08

DESIGNATED FACILITY TO GENERATOR

# ATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

**Environmental Services, Inc.**

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No. 021508

Page 1 of 1

A & D Job No. 30378

## GENERATOR INFORMATION

Name: Progress Energy

US EPA ID No.:

Street Address: Progress Energy, 200 CP+L Dr., Arden NC 28704

Mailing Address: Progress Energy, 200 CP+L Dr., Arden NC 28704

Phone No.: 828-678-5240

Contact: Lori More Head

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | Universal Waste Non Light bulbs Hazardous | NA | NA | NA | 8 | CF | 250 | P |
| b. | | Universal Waste Non Batteries Hazardous | NA | NA | NA | 2 | DF | 160 | P |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|
| a. 177-4ft, 30-8Ft, 11-4's, 24-6Ft | | | |
| b. Batteries | | | |
| c. | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: Laurie L. Moorhead

Signature: Laurie L. Moorhead

Mo. / Day / Yr.: 2/15/08

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL SERVICES, INC

Address: 2718 UWHARRIE ROAD, ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.: 52

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature: Brad Burton

Shipment Date: 02-15-08

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature: Brad Burton

Delivery Date: 2-15-08

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL SERVICES, INC

Address: 2718 UWHARRIE ROAD, ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ~~JIM PARKER~~ Tim Parker

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature: A Clapp

Receipt Date: 2-15-08

Discrepancies / Routing Codes / Handling Methods

a. Rerouted

b.

c.



ORIGINAL - Facility Retain | COPY 2 - Return to Generator | COPY 3 - Transporter Retain | COPY 4 - Generator Retain

# ATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

**A & D Environmental and Industrial Services, Inc.**

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.

Page 1 of 1

A & D Job No. 72049

## GENERATOR INFORMATION

Name: Progress Energy

US EPA ID No.

Street Address: 200 CP+L Dr. Arden, N.C. 28704

Mailing Address: Progress Energy 200 CP+L DR. Arden, N.C. 28704

Phone No. 828-678-5240

Contact: Lori Morehead

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | NON Hazardous liquids (N.O.S.) | N/A | N/A | N/A | 4 | DM | 400 | P |
| b. | | NON Hazardous Solids (N.O.S) | N/A | N/A | N/A | 3 | DF | 150 | P |
| c. | | Mercury contained w manufactured devices | | | | | | | |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | Vibratory Eliminators / used oil | | | |
| b. | Florecent light bulbs. = Transfered to 8111 for recycling | | | |
| c. | | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: Laurie L. Moorhead

Signature: Laurie L. Moorhead

Mo. / Day / Yr.: 9/6/2007

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.: ST - 3

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transpor from the generator site listed above.*

Signature: Jonathon L. McMahan

Shipment Date: 9-6-07

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature: Jonathon L. McMahan

Delivery Date: 09-06-0

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature

Receipt Date: 9-6-07

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.



ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

FILE 12560-C-01

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of 1 | 3. Emergency Response Phone 1-800-881-1098 | 4. Waste Tracking Number 07057 |
|---|---|---|---|---|

5. Generator's Name and Mailing Address: Progress Energy, 200 LP+L Drive, Arden, NC 28704

Generator's Site Address (if different than mailing address):

Generator's Phone: 828-768-0312

6. Transporter 1 Company Name: SHAMROCK ENVIRONMENTAL CORPORATION — U.S. EPA ID Number: N.C.0.0.0.0.9.4.2.1.4.4

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: SHAMROCK ENVIRONMENTAL CORPORATION, 6106 CORPORATE PARK DR., BROWNS SUMMIT, NC 27214 — U.S. EPA ID Number: N.C.0.0.0.0.9.4.2.1.4.4

Facility's Phone: (336)-375-1989

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | non-Hazardous, non-Regulated material (oily water) | 001 | TT | 0213 | G | 2005-0305-B |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information

02-EMR-07-0932

RT-9/T-4

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: X Brad Farrow — Signature: X Brad Farrow — Month 07 Day 05 Year 07

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Michael Barker — Signature: Michael Barker — Month 07 Day 05 Year 07

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

1mo 1mo5 10gal oil pH-6.0 Cl-<100ppm PCB-<1ppm

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [signature] — Signature: [signature] — Month 07 Day 06 Year 07

DESIGNATED FACILITY TO GENERATOR

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

# MATERIAL MANIFEST

12560-CD

**Environmental and Industrial Services, Inc.**

EMERGENCY PHONE NO. (800) 434-7750

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No. AD07/205

Page 1 of 1

A & D Job No. AD07/205

## GENERATOR INFORMATION

Name: Progress Energy

US EPA ID No.:

Street Address: 200 CP&L DR. Arden N.C. 28704

Mailing Address: 200 CP&L DR. Arden N.C. 28704

Phone No.: 828-678-5240

Contact: Selenah Seabrook

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | X | Batteries, wet filled with Acid 8 UN2794 PG III | 8 | UN 2794 | ~~III~~ | 1 | DF | 4 | N/A |
| b. | X | Mercury contained in manufactured particles. | 8 | UN 2809 | III | 3 | DF | 30 | LB |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | Batteries for recycle | | | |
| b. | fluresent Lights for recycling | | | [illegible] |
| c. | | | | [illegible] |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: X Regina Elledge

Signature: X Regina G. Elledge

Mo. / Day / Yr.: 05/22/07

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.: ST-2

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature: Jeffrey Delander

Shipment Date: 05/22/07

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature: [signature]

Delivery Date: 05/22/07

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature: [signature]

Receipt Date: 5-22-07

Discrepancies / Routing Codes / Handling Methods

a. Recycle

b.

c.

ORIGINAL - Facility Retain  COPY 2 - Return to Generator  COPY 3 - Transporter Retain  COPY 4 - Generator Retain

# THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 808-678 5240

(Carrier) A+D Environmental SCAC. _____ Carrier's No. 336-434-7750

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at _____, date 3-15-07 from _____

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

**TO:** (Mail or street address of consignee for purposes of notification only.)
Consignee A+D Environmental
Street 2718 Wharrie Rd
Destination Archdale NC Zip 27263

**FROM:**
Shipper Progress Energy
Street 200 CP+L Dr
Origin Arden NC 28704 Zip

Route:

Delivering Carrier | Trailer Initial/ Number | U.S. DOT Hazmat Reg. Number

| No. of packages | HM | Description of articles, special marks, and exceptions | Hazard Class | I.D. Number | Packing Group | *Weight (subject to correction) | Class or rate | Labels required (or exemption) | Check column |
|---|---|---|---|---|---|---|---|---|---|
| | X | Mercury Contained in | 8 | UN 2809 | III | | | corrosive | |
| | | manufactured Articles | | Batteries | | 88 pcs | | | |
| | | Lift | 166 pcs | | | | | | |
| | | 8 ft | 40 pcs | | | | | | |
| | | small + Bulb acc | 31 pcs | | | | | | |

Remit C.O.D. to:
Address:
City: State: Zip:

**COD** AMT: $

Charges Advanced $ _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

**C. O. D. FEE:** Prepaid ☐ Collect ☐ $

**FREIGHT CHARGES** ☐ Prepaid ☐ Collect

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note. – where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per Progress Energy

**PLACARDS REQUIRED**

**PLACARDS SUPPLIED** ☐ YES ☐ NO - FURNISHED BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: Jolenda Dearborn

PER: _____ DATE: 3/15/07

CARRIER: A+D Environmental

PER: Charles Chavis DATE: 3-15-07

**EMERGENCY RESPONSE TELEPHONE NUMBER:** ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604)

Permanent post office address of shipper

29-BLS-A3 (Rev. 7/95)

Attachments Page 1223
Progress Energy Carolinas, Inc., Asheville Plant

A&D 10

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

A & D *Environmental and Industrial Services, Inc.*

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.

Page of

A & D Job No. A00725 C

## GENERATOR INFORMATION

| Name | US EPA ID No. |
|---|---|
| Progress Energy | |
| **Street Address** / Mailing Address | Phone No. |
| Mebane NC | Contact |

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vo |
|---|---|---|---|---|---|---|---|---|---|
| a. | | non Hazardous liquid | n/a | NA | NA | 1 | DM | 55 | 9. |
| b. | | | | | | | | | |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|
| a. | | | |
| b. | | | |
| c. | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certi that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state la and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiab levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

| Printed / Typed Name | Signature | Mo. / Day / Yr. |
|---|---|---|
| | | 30 |

## TRANSPORTER INFORMATION

Transporter
A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address
2718 UWHARRIE ROAD
ARCHDALE, NC 27263

Transporter or EPA ID No. NCD986232221

Unit No. 573

Phone (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transp from the generator site listed above.*

Signature [signature] Shipment Date

*I hereby acknowledge that the above-described materials were receive from the generator site and were transported to the facility listed below.*

1-30-07

Signature [signature] Delivery Date

## FACILITY INFORMATION

Facility
A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address
2718 UWHARRIE ROAD
ARCHDALE, NC 27263

Facility or EPA ID No. NCD986232221

Phone (336) 434-7750

Contact ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifes except for any discrepancy noted below.*

Signature [signature] 1-30-07 Receipt Date

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|---|
| | CESOG | 1 | 800-535-5033 | G1117 |

5. Generator's Name and Mailing Address
Progress Energy, Carolinas
200 CP & L Drive
Arden, NC 28704
Generator's Phone: 828-687-5240

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: A&D Environmental & Industrial
U.S. EPA ID Number: NCD986232221

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Southern Logistics, Inc.
312 Orville Wright Drive
Greensboro, NC 27409
Facility's Phone: 336-662-0292
U.S. EPA ID Number:

| 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. |
|---|---|---|---|---|
| 1. RQ, Mercury contained in manufactured aritcles, 8, UN2809, PGIII (Universal Waste) (7 MANOMETERS) | 4 | CF | 500 | P |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |

13. Special Handling Instructions and Additional Information
9b) ERG# 172

PO# GSO1117

**14. GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: SELENAH SEABROOKS
Signature: Selenah Seabrooks
Month 12 Day 05 Year 06

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Guy Summers
Signature: Guy Summers
Month 12 Day 05 Year 06
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [illegible]
Signature: [illegible]
Month 12 Day 13 Year 06

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY



169-BLC-O 6 10498 (Rev. 8/06) DESIGNATED FACILITY TO GENERATOR

A&D 10 / 9

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

A & D Environmental and Industrial Services, Inc.

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.

Page 1 of 1

A & D Job No. 3560

## GENERATOR INFORMATION

Name: Progress Energy, CarolinAS

US EPA ID No.: NA

Street Address: 200 CP+L Drive Arden, NC 28704

Mailing Address: 200 CP+L Drive Arden, NC 28704

Phone No.: 828-687-5240

Contact: Selenah Seabrooks

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | Nonregulated Liquids | NA | NA | NA | 1 | DM | 55 | Gals. |
| b. | | | | | | | | | |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | (1) drum Used Oil | | | |
| b. | | | | |
| c. | | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: SELENAH SEABROOKS

Signature: [signature]

Mo. / Day / Yr.: 12/05/06

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.: 572

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature: Guy Summers

Shipment Date: 12/05/06

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature: Guy Summers

Delivery Date: 12/05/06

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature: E. D. McManus

Receipt Date: 12/05/06

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.



ORIGINAL - Facility Retain COPY 2 - Return As Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

A & D Environmental and Industrial Services, Inc.

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.

Page 1 of 1

A & D Job No. AD063441

## GENERATOR INFORMATION

Name: PROGRESS ENERGY

US EPA ID No.

Street Address: ARDEN, NC

Mailing Address

Phone No. (828) 687-5240

Contact: SELINA STABROOKS

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | NON HAZARDOUS liquid N.O.S | N/A | N/A | N/A | 6 | DM | 330 | G |
| b. | | NON HAZARDOUS solids N.O.S | N/A | N/A | N/A | 2 | DM | 1000 | P |
| c. | | NON Regulated solids CENTRIFUGE PARTS | N/A | N/A | N/A | 4 | | | P |

| ADDITIONAL INFORMATION | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|
| a. | | | |
| b. | | | |
| c. | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: SELINA STABROOKS | Signature | Mo. / Day / Yr. 10/17/06

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD, ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221 | Unit No.: ST2

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature | Shipment Date: 10/17/06

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature | Delivery Date: 10/17/06

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD, ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature | Receipt Date: 10-17-06

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.



ORIGINAL - Facility Retain | COPY 2 - Return to Generator | COPY 3 - Transporter Retain | COPY 4 - Generator Retain

October 3, 2006

Progress Energy Carolinas, Inc.
200 CP&L Drive
Arden, North Carolina 28704

Attention: Ms. Selenah Seabrooks
Sr. Environmental Specialist

Reference: **Disposal Manifests and Weigh Tickets**
Progress Energy Asheville Steam Plant
200 CP&L Drive
Arden, North Carolina 28704
S&ME Project No. 1411-06-054

Dear Ms. Seabrooks:

S&ME, Inc. (S&ME) is providing the disposal manifests and weight tickets for the stockpiled soil located at the referenced site. According to the weigh tickets, 106.26 tons of soil was hauled by A&D Environmental and Industrial Services, Inc. (A&D Environmental) to Palmetto Landfill in Wellford, South Carolina. Copies of the disposal manifest and weigh tickets were provided by A&D Environmental and are attached. Please contact David Loftis at (828) 687-9080, if you have any questions concerning this report.

Sincerely,

**S&ME, Inc.**

David R. Loftis, P.E.
Project Engineer

DRL\drl

cc: North Carolina Department of Environment
and Natural Resources
Division of Waste Management
UST Section
2090 US Highway 70
Swannanoa, North Carolina 28301
Attention: Mr. Michael Streeter, M.Sci, L.G.
Hydrogeologist

Progress Energy Service Company, LLC
410 South Wilmington Street
PEB 4A
Raleigh, North Carolina 27601
Attention: Mr. Kerry MacPherson

Attachments: Disposal Manifests
Weigh Tickets

A&D 10 / 95

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

A & D Environmental and Industrial Services, Inc.

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.

Page of

A & D Job No.

## GENERATOR INFORMATION

Name: Progress Energy

US EPA ID No.

Street Address: 200 CPDL Dr. Arden, NC

Mailing Address

Phone No.

Contact

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | UNIVERSAL WASTE | N/A | N/A | N/A | 1 | BK | 10 | P |
| b. | | | | | | | | | |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | manometer | | | |
| b. | | | | |
| c. | | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: Selenia Seabrooks

Signature: [signature]

Mo. / Day / Yr.: 7/20/06

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD
ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.: ST-2

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature: [signature] Shipment Date: 7/19/06

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature

Delivery Date

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD
ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature: E. D. McManus Receipt Date: 7.19.06

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.

ORIGINAL - Facility Retain  COPY 2 - Return to Generator  COPY 3 - Transporter Retain  COPY 4 - Generator Retain

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

**A & D Environmental and Industrial Services, Inc.**

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

| Manifest Document No. | |
|---|---|
| 61506-01 | |
| Page 1 | of 1 |
| A & D Job No. AD062233 | |

## GENERATOR INFORMATION

| Name | US EPA ID No. |
|---|---|
| Progress Energy | |
| **Street Address** 200 CP+L Dr Aiden NC 28704 | **Mailing Address** |
| **Phone No.** 828-687-5240 | **Contact** Selenah Seabrooks |

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | Non Hazardous Material NOS | NA | NA | NA | 1 | TT | 596 | gal |
| b. | | | | | | | | | |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|
| a. oil sand + water (sludge) | | | |
| b. | | | |
| c. | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

| Printed / Typed Name | Signature | Mo. / Day / Yr. |
|---|---|---|
| BRIAN NEAL | Brian Neal | 06/15/06 |

## TRANSPORTER INFORMATION

| Transporter | *I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.* |
|---|---|
| A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES | |
| **Address** 2718 UWHARRIE ROAD ARCHDALE, NC 27263 | Signature Rodney Ritter — 6-15-06 Shipment Date |
| **Transporter or EPA ID No.** NCD986232221 — **Unit No.** VT 12 | *I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.* |
| **Phone** (336) 434-7750 | Signature Rodney Ritter — 6-15-06 Delivery Date |

## FACILITY INFORMATION

| Facility | *I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.* |
|---|---|
| A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES | |
| **Address** 2718 UWHARRIE ROAD ARCHDALE, NC 27263 | Signature Eric D McManus — Receipt Date |
| | **Discrepancies / Routing Codes / Handling Methods** |
| **Facility or EPA ID No.** NCD986232221 | a. |
| **Phone** (336) 434-7750 | b. |
| **Contact** ERIC McMANUS | c. |



ORIGINAL - Facility Retain | COPY 2 - Return to Generator | COPY 3 - Transporter Retain | COPY 4 - Generator Retain

A&D 10 / 2

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

A & D Environmental and Industrial Services, Inc.
POST OFFICE BOX 484
HIGH POINT, NC 27261
TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.

Page of

A & D Job No. ADOG7245

## GENERATOR INFORMATION

Name: Progress Energy

US EPA ID No.:

Street Address: 200 CP&L Dr
Aiden NC 28704

Mailing Address:

Phone No.: 828-687-5240

Contact: Selenah Seabrooks

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | Non Hazardous material NOS | NA | NA | NA | 1 | TT | 498 | gal |
| b. | | | | | | | | | |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | oil + sand | | | |
| b. | | | | |
| c. | | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: JEFF STEPHENS FOR SELENAH SEABROOKS

Signature:

Mo. / Day / Yr.: 6/7/06

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD
ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.: VT12

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature: Rodney R. [illegible]

Shipment Date: 6-7-06

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature: Rodney R. [illegible]

Delivery Date: 6-7-06

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD
ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature:

Receipt Date: 6-8-06

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.



ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

A&D 10 / 95

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

A & D Environmental and Industrial Services, Inc.

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.

Page of

A & D Job No. AD 66 2 114

## GENERATOR INFORMATION

Name: Progress Energy

US EPA ID No.

Street Address: 200 Cpt C D Arden NC

Mailing Address

Phone No. 828-687-5247

Contact: Diane Elledge

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | Universal Waste Bulbs | N/A | N/A | N/A | 3 | CF | | |
| b. | | Non Hazardous Mat | N/A | N/A | N/A | 4 | CF | 40 | Pds |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | 3 Boxes 4ft Bulbs | | | |
| b. | Used Grease | | | |
| c. | | | | |

## GENERATOR'S CERTIFICATION

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Printed / Typed Name: Diane Elledge

Signature: Diane Elledge

Mo. / Day / Yr. 06/02/06

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Transporter or EPA ID No. NCD986232221

Unit No. ST 2

Phone (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature

Shipment Date

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature

Delivery Date

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Facility or EPA ID No. NCD986232221

Phone (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature: E. D. McManus

Receipt Date: 6.2.06

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.



ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

A & D Environmental and Industrial Services, Inc.

POST OFFICE BOX 484
HIGH POINT, NC 27262

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No. 14921

Page 1 of 1

A & D Job No. AD04971

## GENERATOR INFORMATION

Name: PROGRESS ENERGY COMPANY

US EPA ID No.:

Street Address: 200 CAEL DRIVE ARDEN, NC

Mailing Address:

Phone No.:

Contact:

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | NON HAZARDOUS liquid | N/A | N/A | N/A | 9 | DM | 495 | G |
| b. | | | | | | | | | |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | TURBINE oil | | | |
| b. | | | | |
| c. | | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: SELENAH SEABROOKS

Signature: [signature]

Mo. / Day / Yr.: 04/23/06

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.: 52

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature: [signature] Shipment Date: 4/23/06

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature: [signature] Delivery Date: 4/23/06

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature: [signature] Receipt Date: 4-24-06

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.



ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

A&D 10 / 95

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

**A & D Environmental and Industrial Services, Inc.**
POST OFFICE BOX 484
HIGH POINT, NC 27261
TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.

Page 1 of 1

A & D Job No. AD06842

## GENERATOR INFORMATION

Name: FLUOR (Progress Energy)

US EPA ID No.

Street Address: 200 CP+L Rd
Arden NC 28704

Mailing Address: Same

Phone No. 828 650 7128

Contact: Don Mitchell

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | N/A | Universal Waste | NA | NA | NA | 1 | CF | 75 | P |
| b. | N/A | Non hazardous Solid Nos Flat FLR | NA | NA | NA | 12 | DF | 6000 | P |
| c. | N/A | Non hazardous solid Nos | NA | NA | NA | 3 | DM | 1500 | P |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | 12 Batteries | NA | | |
| b. | Soil (hydraulic fluid contaminated) | NA | | |
| c. | Soil (hydraulic fluid contaminated) | NA | | |

## GENERATOR'S CERTIFICATION

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Printed / Typed Name: Earl F Gillette JR

Signature

Mo. / Day / Yr.: 4/7/06

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD
ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature

7 Apr 06 — Shipment Date

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature

7 Apr 06 — Delivery Date

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD
ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC McMANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature

4-7-06 — Receipt Date

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.



ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No. 32906

2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address
Progress Energy
208 CPL Drive
Asheville NC 28704

4. Generator's Phone (828) 687 5246

5. Transporter 1 Company Name
ADD Environmental

6. US EPA ID Number
N.C.D.986233222

A. Transporter's Phone
(336) 434-7750

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
ADD Environmental
2718 Wharton Rd
Archdale, N.C. 27263

10. US EPA ID Number
N.C.D.986233222

C. Facility's Phone
(336) 434-7750

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. mercury contained in manufactured Articles 8 UN 2809 PG III | 2 | DF | 50 | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
11A) 93.4 FT Tubes, 5 - U-shaped Lamps, 8 FT

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name | Signature | Month | Day | Year

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Steve Flinchum | Signature | Month 03 | Day 29 | Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Dennis Clapp | Signature | Month 03 | Day 29 | Year 06

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

12-BLS-C5 Rev. 12/98

ment No. | of 1 | 2.10 | brook | Total Quantity 850 | Unit Wt./Vol. P

Facility Use

nd labeled, and are in ation. I further certify y applicable state law, ot contain quantifiable

Mo. / Day / Yr.

ed materials for transport

Shipment Date 11/17/05

materials were received facility listed below.

Delivery Date

# THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. _____

(Carrier) A&D Environmental SCAC. _____ Carrier's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at _____, date _____ from _____

property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this tract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee for purposes of notification only.)

**TO:**
Consignee
Street
Destination Zip

**FROM:** Progress Energy
Shipper Arden NC
Street
Origin Zip

Route:

Delivering Carrier | Trailer Initial/ Number | U.S. DOT Hazmat Reg. Number

| No. of packages | HM | Description of articles, special marks, and exceptions | Hazard Class | I.D. Number | Packing Group | *Weight (subject to correction) | Class or rate | Labels required (or exemption) | Check column |
|---|---|---|---|---|---|---|---|---|---|
| 2 | | universal waste Ballast | | | | | | | |
| 1 | | universal waste Bulds 8ft | | | | | | | |
| 1 | | universal waste Bulds 4ft | | | | | | | |
| 2 | | universal waste Bulds lamps | | | | | | | |
| 2 | | universal waste Bulds mercury vapor lamps | | | | | | | |

Remit C.O.D. to:
Address:
City: State: Zip:

**COD** AMT: $

Charges Advanced $

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

**C. O. D. FEE:** 22
Prepaid ☐
Collect ☐ $

**FREIGHT CHARGES**
☐ Prepaid ☑ Collect

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".
Note. – where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per _____

**PLACARDS REQUIRED**

**PLACARDS SUPPLIED** ☐ YES ☐ NO - FURNISHED BY CARRIER

DRIVER'S SIGNATURE: 3-mercury

SHIPPER: _____ CARRIER: _____

PER: _____ DATE: _____ PER: _____ DATE: _____

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604)

Permanent post office address of shipper

29-BLS-A3 (Rev. 7/95)

Signature

## FACILITY INFORMATION

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature [signature] Receipt Date 11/17/05

Discrepancies / Routing Codes / Handling Methods

a. Receipt

b.

c.

Facility A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Facility or EPA ID No. NCD986232221

Phone (336) 434-7750

Contact

ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

Progress Energy Carolinas, Inc., Asheville Plant

Attachements Page 1236

# THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbo' ' retained by the Agent

12560 - C - 1

pper's No. _____

(Carrier) ADD ENVIRONMENTAL SCAC. _____ Carrier's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at _____, date _____ from _____

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee for purposes of notification only.)

**TO:**
Consignee ADD ENVIRONMENTAL
Street 2718 Uwharrie Rd
Destination Archdale, N.C. Zip 27263

**FROM:** Progress Energy
Shipper 200 CP&L Drive
Street
Origin Arden, N.C. Zip 28704

Route:

Delivering Carrier | Trailer Initial/ Number | U.S. DOT Hazmat Reg. Number

| No. of packages | HM | Description of articles, special marks, and exceptions | Hazard Class | I.D. Number | Packing Group | *Weight (subject to correction) | Class or rate | Labels required (or exemption) | Check column |
|---|---|---|---|---|---|---|---|---|---|
| | | Mercury Contained in Manufactured Articles | 8 | UN 2809 | III | 101 4 ft<br>39 6 ft<br>32 small | | | |
| 18 | | Universal Waste Batterys | 8 | UN 2809 | III | | | | |
| 21 | | Universal Waste Therm. | 8 | UN 2809 | III | | | | |

Remit C.O.D. to:
Address:
City: State: Zip:

**COD** AMT: $

Charges Advanced $

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

**C. O. D. FEE:**
Prepaid ☐
Collect ☐ $

**FREIGHT CHARGES**
☐ Prepaid ☐ Collect

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".
Note. – where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Per _____

**PLACARDS REQUIRED**

**PLACARDS SUPPLIED** ☐ YES ☐ NO - FURNISHED BY CARRIER
DRIVER'S SIGNATURE:

SHIPPER: [signature]
PER: Progress Energy DATE: 8/8/05

CARRIER: Richard Joyce
PER: A+D Environmental DATE: 8-8-05

EMERGENCY RESPONSE TELEPHONE NUMBER: (336)-434 7750

Permanent post office address of shipper

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

1-800-434-7750

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NCD000830638
Manifest Doc. No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address: Progress Energy, 200 CP&L Drive, Arden, NC 28704

4. Generator's Phone (828) 687-5240

5. Transporter 1 Company Name: ADD ENNVIRONMENTAL
6. US EPA ID Number: NCD98623222 1
A. Transporter's Phone: (336) 434-7750

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address: ADD ENVIRONMENTAL, 2718 Uwharrie Rd., Archdale, NC 27263
10. US EPA ID Number: NCD98623222 1
C. Facility's Phone: (336) 434-7750

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. NON Regulated Liquid | 06 | DM | 330 | G |
| b. ~~NON-Regulated Liquid~~ NJ/SIS | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
11A) Pulv. Oil
~~11b) High Flash Solvent~~ NJ/SIS

E. Handling Codes for Wastes Listed Above
S01
~~S01~~

15. Special Handling Instructions and Additional Information

Emergency Name & Number: Eric McManus @ (800) 434-7750

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Selfman Searlines | [signature] | 08 | 08 | 05 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Richard Joyce | Richard Joyce | 08 | 08 | 05 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | M | | | |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Eric McManus | [signature] | | | 05 |

GENERATOR / TRANSPORTER / FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

12-BLS-C5 Rev. 12/98

**THIS MEMORANDUM** is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

125[illegible]-C1

Shipper's No. _____

(Carrier) A&D ENVIRONMENTAL SCAC. _____ Carrier's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at _____, date _____ from _____

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

**TO:** (Mail or street address of consignee for purposes of notification only.)
Consignee A&D ENVIRONMENTAL
Street 2718 Uwharrie Rd.
Destination Archdale, NC Zip 27263

**FROM:** Progress Energy
Shipper 200 CP&L Dr.
Street
Origin Arden, N.C. Zip 28704

Route:

Delivering Carrier | Trailer Initial/Number | U.S. DOT Hazmat Reg. Number

| No. of packages | HM | Description of articles, special marks, and exceptions | Hazard Class | I.D. Number | Packing Group | *Weight (subject to correction) | Class or rate | Labels required (or exemption) | Check column |
|---|---|---|---|---|---|---|---|---|---|
| 14 | | mercury contained in manufactured articles | 8 | UN 2809 | III | | | | |
| | | 242 4' blubs, 25 8' blubs, 14 U shaped blubs, 9 screw blubs | | | | | | | |
| 2 | | Universal WASTE Batteries | | | | | | | |
| | | 4 lead Acid, 7 Nickel Cadmium, 1 Ballast | | | | | | | |

Remit C.O.D. to:
Address:
City: State: Zip:

**COD** AMT: $

Charges Advanced $ _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

**C. O. D. FEE:**
Prepaid ☐
Collect ☐ $

**FREIGHT CHARGES**
☐ Prepaid ☑ Collect

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".
Note. – where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per _____

**PLACARDS REQUIRED**

**PLACARDS SUPPLIED** ☐ YES ☐ NO - FURNISHED BY CARRIER
DRIVER'S SIGNATURE: [signature]

SHIPPER: [signature]
PER: _____ DATE: 2/2/05

CARRIER: _____
PER: _____ DATE: _____

**EMERGENCY RESPONSE TELEPHONE NUMBER:** (800) 434-7750

Permanent post office address of shipper

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604)

29-BLS-A3 (Rev. 7/95)

12560-C1

A&D 10/95

# MATERIAL MANIFEST

EMERGENCY PHONE NO.
( 800 ) 434 - 7750

A & D Environmental and Industrial Services, Inc.
POST OFFICE BOX 484 HIGH POINT, NC 27261
TEL (336) 434-7750 FAX (336) 434-7752

Manifest Document No.

Page 1 of 1

A & D Job No.

## GENERATOR INFORMATION

Name: Progress Energy

US EPA ID No.

Street Address: 200 CP+L Drive Arden, N.C 28704

Mailing Address

Phone No. 828-687-5240

Contact: Selenah Seabrooks

## DESCRIPTION OF MATERIALS

| | HM | USDOT Proper Shipping Name (Complete All Items for Hazardous Materials) | Hazard Class or Div. | UN / NA ID No. | Packing Group | Containers Qty. | Containers Type | Total Quantity | Unit Wt./ Vol. |
|---|---|---|---|---|---|---|---|---|---|
| a. | | Non-regulated ~~liquid~~ solids N.O.S. | N/A | N/A | N/A | 5 | DM | 1500 | P |
| b. | | | | | | | | | |
| c. | | | | | | | | | |

| ADDITIONAL INFORMATION | | ERG No. | A & D Profile Code | Facility Use |
|---|---|---|---|---|
| a. | oily materials | N/A | | |
| b. | | | | |
| c. | | | | |

## GENERATOR'S CERTIFICATION

*This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.*

Printed / Typed Name: SELENAH SEABROOKS

Signature

Mo. / Day / Yr.: 02/02/05

## TRANSPORTER INFORMATION

Transporter: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Transporter or EPA ID No.: NCD986232221

Unit No.: ST2

Phone: (336) 434-7750

*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*

Signature

Shipment Date: 2/2/05

*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*

Signature

Delivery Date: 2/2/05

## FACILITY INFORMATION

Facility: A & D ENVIRONMENTAL AND INDUSTRIAL SERVICES

Address: 2718 UWHARRIE ROAD ARCHDALE, NC 27263

Facility or EPA ID No.: NCD986232221

Phone: (336) 434-7750

Contact: ERIC MANUS

*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*

Signature

Receipt Date: 2-2-05

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.



ORIGINAL - Facility Retains COPY 2 - Returned to Generator COPY 3 - Transporter Retains COPY 4 - Generator Retains