



**DEPARTMENT of AGRICULTURE  
and NATURAL RESOURCES**

2050 WEST MAIN SUITE 1  
RAPID CITY SD 57702-2493  
danr.sd.gov

October 24, 2022

Mr. Mike Riker  
Colonial Pine Hills Sanitary District  
7806 Croyle Ave  
Rapid City, SD 57702

RE: Colonial Pine Hills Sanitary District Public Water System On-Site Evaluation (EPA ID # 0263)

Dear Mike:

Enclosed you will find the results of the on-site evaluation conducted by the Department of Agriculture and Natural Resources (DANR) on October 4, 2022. Based on the information obtained during that evaluation, we have some requirements and recommendations to assist you with maintaining compliance with regulations, improving operations, and providing public health protection. The requirements and recommendations are as follows:

**REQUIREMENTS:**

1. As a reminder, the South Dakota Drinking Water Standards requires water systems to retain results of compliance monitoring and records for a defined period. Please see the table below for your systems record keeping requirements:

<b>Records That Must Be Kept</b>	<b>Frequency</b>
Actions taken by your system to correct violations	At least 3 years
Public Notices that your system issues	At least 3 years
Public Notification Rule	At least 3 years
Consumer Confidence Rule	At least 3 years
Microbiological and turbidity analyses	At least 5 years
Chemical analyses	At least 10 years
Sanitary Surveys and written reports and summaries of surveys	At least 10 years
Stage 1 and 2 Disinfectants and Disinfection By-Products Rule	At least 10 years
Lead and Copper Rule - Public Education activities and materials	At least 12 years
Lead and Copper Rule – all associated sample analyses, corrosion control recommendations	At least 12 years

2. Once an Operator is certified they are required to maintain contact hours in order to stay certified. The contact hour requirements for renewal of water and wastewater operator certificates can be seen below:

Operator with one certificate (Class I or II)

10 contact hours every three years

Operator with one certificate (Class III or IV)	20 contact hours every three years
Operator with more than one certificate (and all certificates are Class I or II)	15 contact hours every three years
Operator with more than one certificate (and at least one certificate is class III or IV)	30 contact hours every three years

If there are any questions on certification requirements, please contact Rob Kittay, Secretary of the Board of Operator Certification, at (605) 773-4208. A complete copy of the regulations and more information is available on the Operator Certification Website at <https://danr.sd.gov/OfficeOfWater/DrinkingWater/OperatorCertification/default.aspx>.

**RECOMMENDATIONS:**

1. Colonial Pine Hills Sanitary District does an exceptional job of operating and maintaining its water system, continue the tremendous efforts!
2. Your system had substantial water loss over the past year. Continue your diligent efforts to find and repair water leaks in the distribution system. A high percentage of unaccounted for water represents a waste of resources and loss of water system revenue. Water loss should be kept below 15%.
3. Protection of the water system from acts of vandalism or other threats is a vital part of providing safe water for consumers. Please continue the basic security measures of locking all buildings and reservoirs, limiting access to water facilities, and conducting routine visual checks of the system. Contact the Drinking Water Program at (605) 773-3754 for more information or to report any water quality concerns. For assistance after work hours, holidays, and weekends, contact Emergency Management at (605) 773-3231.

For technical assistance contact the DANR's Drinking Water Program at 523 East Capitol, Pierre, SD 57501, (605) 773-3754 or the South Dakota Association of Rural Water Systems (SDARWS) at PO Box 815 (301 Seaton Circle), Spearfish, SD 57783, (605) 642-4031. Representatives of your water system are invited to attend seminars and training courses sponsored by DANR and the SDARWS. For additional information, please contact them.

The on-site evaluation report is enclosed along with the laboratory analyses of the water samples collected from the system. If you have questions or comments concerning the on-site evaluation, please call me at (605) 394-6745.

Sincerely,



Jaime Haueter  
Environmental Scientist  
Drinking Water Program

Enclosures

Cc: Drinking Water Office, Pierre – via email only

**South Dakota Department of Agriculture and Natural Resources**  
**Drinking Water Program**  
**Public Water System On-Site Evaluation Report**

System Name: Colonial Pine Hills Sanitary District EPA ID #: 0263  
 Address: 7806 Croyle Ave  
Rapid City, SD 57702-8950

County: Pennington

Person Contacted: Mike Riker Work phone: (605)341-7800  
 Address: 7806 Croyle Ave Home phone: \_\_\_\_\_  
Rapid City, SD 57702 Cell phone: (605)209-2811  
 Fax: \_\_\_\_\_  
 E-mail: mike.riker@ae2s.com

Inspected By: Jaime Haueter Date of Inspection: 10/4/22 (mm/dd/yy)

Type of System: (check one)  Community Water System  
 Non-Transient Non-Community

Population: Total Population Served: 1,200 System Population: 1,200

Number of Service Connections: 431 Susceptibility to contamination of water source: moderate

Sources of Water: Water data from year: past 12 mos  
 Own Source(s): Croyle 2, Nonanna, Conifer wells Total produced: 82,460,100 % of total: 100.0%  
 Bulk Supplier: \_\_\_\_\_ Total purchased: \_\_\_\_\_ % of total: 0%  
 Contracted flow rate?: \_\_\_\_\_  
 Total Annual Use: 82,460,100 100.0%

Water Sold to: NA  
 (bulk connections only) \_\_\_\_\_  
 \_\_\_\_\_

How much water can this system supply? 475 gpm (maximum flow rate, gpm)

What major factor limits system's ability to supply water? None

- | yes                                 | no                       | n/a                      | unk                      | note   |
|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> 1 Is there an up-to-date map or schematic of system?               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 2 Is the system capable of meeting demand at all times (excluding fire flow)? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 3 Is good housekeeping evident throughout the system?                         |

Comments: Survey was conducted with Mike Riker, Jim Martin, and Steve Burgad.

1. Updating to GIS map.  
 \_\_\_\_\_  
 \_\_\_\_\_

# Water Usage

yes no n/a unk note

4 Are all customers metered?

5 If not, what entities are not metered?

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6 Total gallons billed: 45,329,177

7 Calculated water loss: 45.0%

yes no n/a unk note 8 Peak month and amount used August 335K gallons

9 Does the system track unaccounted-for water?

Comments: 7. Repaired 9 leaks this year, and repairing another one tomorrow. Since repairs, July water loss averaged 9% and August water loss averaged 18%.

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# Water Sources

Colonial Pine Hills

EPA ID: 0263

Name	Year Built	Diameter (in)	Depth (ft)	GPM	Status	ID
WP MAIN WELL	1978	7	1109	93	Emergency	6
NAYLOR WELL	1976	4	825	30	Abandoned	7
CROYLE 1 WELL	1964	6	725	18	Abandoned	8
NONANNA WELL	2002	7	1055	147	Permanent	10
CLARKSON WELL	1972	8	720	15	Abandoned	12
CONIFER WELL	1997	7	1020	140	Permanent	14
CS MAIN WELL	1994	7	945	44	Emergency	17
CROYLE 2 WELL	2010	13	1010	180	Permanent	19

Name	Water Right #	Aquifer	Location Description	ID
WP MAIN WELL	1726-2	DEADWOOD		6
NAYLOR WELL	1726-2	MADISON AQ.		7
CROYLE 1 WELL	1726-2	MADISON AQ.		8
NONANNA WELL	2461-2	MADISON	8251 Dunsmore Road	10
CLARKSON WELL	2108-2	MADISON		12
CONIFER WELL	2295-2	DEADWOOD	5322 Conifer Lane	14
CS MAIN WELL	2295-2	DEADWOOD		17
CROYLE 2 WELL	2607A-2	MADISON	7804 Croyle Avenue	19

yes no n/a unk note

1 Has a Source Water Protection Plan been developed?

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

2 Is the wellhead/pumphouse protected from unauthorized personnel?

3 Are there any sources of contamination with 1/4 mile?

4 Are pesticides, herbicides, fertilizers applied in the area of the well(s)?

5 Is a pressure gauge provided at each source?

6 Is a sample tap provided at each well for raw water? List locations below.

7 Can flow be measured from each well?

8 Is the well house(s) kept clean, in good repair and not used to store hazardous material?

Comments: 4. Assume residential use of chemicals on nearby lawns.

6. Sample taps located in pumphouses, pre- and post-treatment.

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# Water Treatment

Colonial Pine Hills

EPA ID: 0263

## General Items

- | yes                                 | no                                  | n/a                      | unk                      | note                     |  |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1 Is there continuous online water quality measurements taken?<br>If so, what? (pH, turbidity, chlorine, etc.)<br><u>Cl residual and turbidity at Croyle 2 after contact loops for Croyle 2 and Nonanna well blend. Hach CL 17 chlorine analyzer and Hach 1720E turbidmeter.</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2 Can the treatment process be interrupted by power outages?   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3 Is backup electrical power available?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 Are treatment units designed to be taken out of service without interruption to operations?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5 Is routine maintenance and good housekeeping evident?  |

## Chlorination

- | yes                                 | no                                  | n/a                                 | unk                      | note                     |   |
|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 1 Is continuous disinfection provided?            |
|                                     |                                     |                                     |                          |                          | 2 Type of chemical used: <u>Azone 15</u>          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 3 Is there an anti-siphon valve on the feed pump? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 4 Is there adequate spill containment?            |
|                                     |                                     |                                     |                          |                          | 5 Gas chlorination features:                      |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 Separate room?                                  |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 Positive mechanical ventilation?                |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 Restraints for all cylinders?                   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9 Self-contained air pack present?                |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10 Scale present?                                 |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11 Observation window?                            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12 Automatic leak detectors?                      |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13 Chlorine safety plan?                          |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14 Other chemicals stored in room?                |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 15 Is ammonia used to form chloramines?           |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 16 Is an alternate method of disinfection used?   |

Describe: \_\_\_\_\_  
\_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Presedimentation

yes no n/a unk note

- 1 Does the water require presedimentation?
- 2 Is there a minimum detention time of three hours (Ten States Standards)?  
If not, what is approximate detention time? \_\_\_\_\_
- 3 Is any treatment/conditioning done to water prior to presedimentation?  
Describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 4 Can the basin be bypassed?
- 5 Is there continuous sludge removal?
- 6 Is short circuiting a problem?

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Aeration

yes no n/a unk note

- 1 Is aeration provided?
- 2 What type of aeration is provided? \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Coagulation

yes no n/a unk note

- 1 Does the treatment process include coagulation?
- 2 List chemicals added: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 3 Is the basin equipped with mechanical mixing devices?
- 4 Is the detention period more than 30 seconds (Ten States Standards)?

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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### Flocculation

yes no n/a unk note

- 1 Does the treatment process include flocculation?
- 2 Is there at least 30 minutes of detention time for floc formation?  
If not, what is approximate detention time? \_\_\_\_\_
- 3 Does the inlet and outlet design prevent short-circuiting and destruction?

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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### Sedimentation

yes no n/a unk note

- 1 Is sedimentation part of this treatment process?
- 2 Is there a detention time of at least 4 hours (Ten States Standards)?  
If not, what is approximate detention time? \_\_\_\_\_
- 3 Is there continuous sludge removal? \_\_\_\_\_
- 4 Is sludge dewatered?
- 5 Where does recycled water reenter system? \_\_\_\_\_
- 6 Where is the sludge discharged? \_\_\_\_\_
- 7 Does the facility have the appropriate waste water permits?

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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### Filtration

yes no n/a unk note

- 1 Is filtration provided?
- 2 What type: WesTech brand 0.01 micron ultrafiltration for Nonanna well. 12 filters present, 10 are in use. 50 micron Tekleen screen at Conifer.
- 3 Do records indicate that adequate filtration is being done?
- 4 Filtration area: 7750 square feet with 10 filters in used
- 5 Maximum flow rate: 150-200 gpm
- 6 Backwash frequency: every 30 minutes
- 7 How determined? scheduled and water quality

Comments: Each filter is 775 square feet. Sodium hydroxide, sodium bisulfate, & citric acid used to clean filters. Tekleen screen at Conifer for particulate removal and is not in use at Croyle 2 or Nonanna.



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### Fluoridation

- | yes                                 | no                       | n/a                      | unk                      | note                     |
|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 1 Is fluoridation provided?
- 2 Type of chemical used? Fluorosilicic Acid
- 3 Is there an anti-siphon valve on the feed pump?
- 4 Is there adequate spill containment?
- 5 Do records indicate consistent, acceptable levels are maintained?

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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### Stabilization (pH adjustment, polymers, softening, etc.)

- | yes                                 | no                                  | n/a                      | unk                      | note                     |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 1 Does the water require stabilization?
- 2 Are pH and alkalinity adjusted? (via soda ash, lime, caustic soda, carbon dioxide, sulfuric acid, etc.) How? \_\_\_\_\_  
\_\_\_\_\_
- 3 Is the water softened as part of this treatment process? Describe: \_\_\_\_\_  
\_\_\_\_\_
- 4 Are corrosion inhibitors or sequestering agents used? Describe: Calgon LPC at Conifer for iron sequestration
- 5 Are polymers used for something other than described previously? Aquahawk 607 added at Nonanna to build floc and improve particulate removal

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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### Corrosion Control

- | yes                      | no                                  | n/a                                 | unk                      | note                     |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 1 Does this system require a corrosion control program?
- 2 What chemical is being used? Dosage? \_\_\_\_\_
- 3 Is the corrosion control equipment working properly?
- 4 Do records show WQP's are tested every two weeks?
- 5 What test kits are used for WQP's and are reagents up to date?

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Storage

Colonial Pine Hills

EPA ID: 0263

Description	Service Date	Location	ID
1 Steel Standpipe 504000	2019*	Mountain Pine Ln & Spring Canyon Trail	18

yes    no    n/a    unk    note

- |                                     |                                     |                          |                          |                          |  |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1 Is the area surrounding the ground-level storage structures graded in a manner that will prevent surface water from standing within 50 feet?                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2 Do overflows and drains have free fall discharges which are screened?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3 Are the discharges between 12 and 24 inches above the ground?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 Do the overflows and/or drains discharge to a splash pad or drainage inlet structure that is not connected to a storm or sanitary sewer?                     |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5 Do the storage reservoirs have a watertight roof or cover and are they sloped so that water will drain?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 Are storage structures designed so that they can be isolated from the distribution system without necessitating loss of pressure in the distribution system? |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 Is leakage evident at the time of inspection?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 Are the storage structures vented?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9 Are vents properly protected/screened?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10 Are covers and hatches locked?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11 Are there any weather related problems (freezing, etc.)?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12 Is there a control system to maintain level?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13 Are there high and low level alarms?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14 Are tanks filled automatically, manually or both? <u>auto</u>   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 15 Is there a service contract for cleaning/inspecting the tanks?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16 Are the tanks disinfected after being cleaned or inspected?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 17 Are the storage structures secure from unauthorized access?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 18 Is the area fenced?   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 19 What other steps have been taken to address security?<br><u>locked ladder guard</u>   |

Comments:    \*Tank is cleaned every 5 years.  
SCADA system

# Distribution System

Colonial Pine Hills

EPA ID: 0263

Main sizes and types: 4, 6, 8, 10, 12" PVC

yes	no	n/a	unk	note	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 Is the water system capable of providing sufficient water during maximum demand conditions (excluding fire flow) to maintain a minimum pressure of 20 psi within the system measured at the consumer's tap?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 What is normal operating pressure? <span style="float: right;"><u>50-120</u> psi</span>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 Are there areas with chronic low pressure problems?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 Is an adequate map (shows valve locations, line sizes, etc) of the distribution system maintained?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 Is there a main flushing program? If yes, how often? <span style="float: right;"><u>1x/yr</u></span>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Are all dead-end water mains equipped with a means to flush?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7 Any plans to eliminate dead-ends (via looping of mains, etc.)?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 Are valves exercised regularly? If yes, how often? <span style="float: right;"><u>1x/yr</u></span>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9 Are there fire hydrants on mains less than 6 inches in diameter?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 Does the system disinfect after pipe repairs or new pipe installation?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11 Is the location and nature of each repair documented?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12 Does the system utilize a conservation program at any time?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13 Is the system adequately protected from freezing?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14 Are water and sewer mains separated by a horizontal distance of 10 feet or greater? <b>septic tanks</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15 Is there a cross connection control program?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16 Are audits conducted to check for cross connections in the system?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17 Are backflow preventers installed on all consumer connections?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18 Is the bulk water loading station designed with back flow prevention and appropriate air gap device to prevent contamination?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19 Does the system contain any pressure reducing valves?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20 For systems using chloramines, can you measure a total chlorine residual level of at least 0.5 mg/l in your distribution system at all times?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	21 For systems using chlorine, can you measure a free chlorine residual level of at least 0.3 mg/l in your distribution system at all times?
					22 How often do you take chlorine readings in the distribution system? <u>continuously</u>

Comments (please indicate the question number): \_\_\_\_\_

9. Hydrants are marked with yellow caps and flow bands, fire department aware of these hydrants.

12. June- Sept, even/odd days and certain times.

# Facilities Equipment

Colonial Pine Hills

EPA ID: 0263

yes    no    n/a    unk    note

1 Are any pumps used in the system?  
 If so, describe: well pumps, chemical feed pumps, and a  
30HP high lift pump at Croyle 2 treatment plant to push water to the distribution  
system

2 Are backup pumps available?

3 Is any equipment located in a pit?

4 Do you use a qualified pump contractor to inspect pump equipment?

5 Is food grade lubrication used in all water facilities equipment?

6 Is backup power available in the event of a power loss?

7 Is equipment protected from unauthorized entry or vandalism?

8 Are the facilities and equipment subject to weather related problems?

9 Is there a floor drain?    Where does it drain to? \_\_\_\_\_  
daylight

Comments (please indicate the question number): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Monitoring/Reporting - Entry Point

Colonial Pine Hills

EPA ID: 0263

## SAMPLING

Entry point: Treat Site - Croyle 2/nonanna

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Triennially	No	Oct-20	2023	
	B. Arsenic	Triennially	No	Oct-20	2023	
	C. Barium	Triennially	No	Oct-20	2023	
	D. Beryllium	Triennially	No	Oct-20	2023	
	E. Cadmium	Triennially	No	Oct-20	2023	
	F. Chromium	Triennially	No	Oct-20	2023	
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			State Fluoride Rule Applies
	I. Mercury	Triennially	No	Oct-20	2023	
	J. Nickel	Triennially	No	Oct-20	2023	
	K. Selenium	Triennially	No	Oct-20	2023	
	L. Thallium	Triennially	No	Oct-20	2023	
2	Radiological Chemicals	Every nine years	N/A	Jul-21	2030	
3	VOC Chemicals	Triennially	No	Jul-21	2024	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-21	2024	
	B. Method 524	Triennially	No	Jul-21	2024	
	C. Method 525	Triennially	No	Jul-21	2024	
	D. Method 531.1	Triennially	No	Jul-21	2024	
	E. Method 547	Triennially	No	Jul-21	2024	
	F. Method 548	Triennially	No	Jul-21	2024	
	G. Method 549	Triennially	No	Jul-21	2024	
5	Nitrate	Annually	N/A	Oct-22	2023	Collected during DANR survey
6	Nitrite	Triennially	N/A	Oct-22	2025	Collected during DANR survey

(These values are calculated from available data. Check correspondence for verification.)

# Monitoring/Reporting - Entry Point

Colonial Pine Hills

EPA ID: 0263

## SAMPLING

Entry point: Treat Site - Conifer Well

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	Jul-21		IOC waiver good through 2028
	B. Arsenic	Every nine years	Yes	Jul-21		
	C. Barium	Every nine years	Yes	Jul-21		
	D. Beryllium	Every nine years	Yes	Jul-21		
	E. Cadmium	Every nine years	Yes	Jul-21		
	F. Chromium	Every nine years	Yes	Jul-21		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			State Fluoride Rule Applies
	I. Mercury	Every nine years	Yes	Jul-21		
	J. Nickel	Every nine years	Yes	Jul-21		
	K. Selenium	Every nine years	Yes	Jul-21		
	L. Thallium	Every nine years	Yes	Jul-21		
2	Radiological Chemicals	Triennially	N/A	Jul-21	2024	
3	VOC Chemicals	Triennially	No	Jul-21	2024	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-21	2024	
	B. Method 524	Triennially	No	Jul-21	2024	
	C. Method 525	Triennially	No	Jul-21	2024	
	D. Method 531.1	Triennially	No	Jul-21	2024	
	E. Method 547	Triennially	No	Jul-21	2024	
	F. Method 548	Triennially	No	Jul-21	2024	
	G. Method 549	Triennially	No	Jul-21	2024	
5	Nitrate	Annually	N/A	Oct-22	2023	Collected during DANR survey
6	Nitrite	Triennially	N/A	Oct-22	2025	Collected during DANR survey

(These values are calculated from available data. Check correspondence for verification.)

# Monitoring/Reporting - Distribution

Colonial Pine Hills

EPA ID: 0263

yes    no    n/a    unk    note

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1 Are the following sampling site plans up to date?

- Bacteriological
- Lead and copper
- Disinfection By Products (DBP)

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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2 Are microbiological sampling sites (as approved by DENR) being rotated on a monthly basis for routine sampling?

3 Does the system have a waiver for asbestos sampling?

4 Which of the following records are kept regarding the system?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Operational Data:**

Flow meter readings:

Electrical usage:

Chemical usage:

Hour meter readings:

Storage or reservoir levels:

Sampling data:

- Chlorine residual testing
- Bacteriological sampling
- Fluoride levels
- Asbestos sampling results
- Lead and Copper sampling results
- DBP Monitoring

Other: \_\_\_\_\_

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Maintenance Data:**

Water main repairs:

Main flushing dates:

Valve exercising dates:

Equipment service:

Other: \_\_\_\_\_

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Testing and Testing Equipment

Test kits present at system: Hach digital: chlorine, fluoride, turbidity

yes    no    n/a    unk    note

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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5 Are up to date reagents present?

Tests and frequency performed by operator: \_\_\_\_\_

Cl and turbidity: measured continuously

Fluoride measured monthly

Survey test results: NA

**Bacteriological Monitoring**

Bacteriological sampling and analysis: October 1, 2021 to October 1, 2022

- A Samples submitted: 22
- B Samples required: Two Samples Each Month
- C Survey samples: 0
- D Safe samples: 22
- E Unsafe samples: 0
- F Repeat samples: 0

**Lead and Copper Monitoring**

(These values are calculated from available data. Check correspondence for verification.)

- A Date Last Tested: September 21, 2021
- B Samples required: 10
- C Sampling Frequency: Triennially
- D Date Due Next: 2024
- E Lead - 90% Level: 2 Action Level - 15 ug/l
- F Copper 90% Level: 0.19 Action Level - 1.3 mg/l

**Disinfectant Residual Monitoring**

Residual sampling and analysis: October 1, 2021 to October 1, 2022

- A Samples submitted: 22
- B Samples required: Two Samples Each Month
- C Last Qtr Cl Residual: 1.12 mg/l
- D Running Annual Average: 1.16 mg/l
- E Date of last DBP test: September 9, 2021
- F THM - Qtr Average: 4.01 ug/l
- G Haa5 - Qtr Average: 0 ug/l

**Asbestos**

- A Date of last test: Waiver - Testing Not Required
- B Asbestos Result: \_\_\_\_\_ million fibers per liter

Comments Asbestos waiver good through 2028

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# Managerial Capacity

Colonial Pine Hills

EPA ID: 0263

**Certification Level of Water System:**      Distribution:   I        Treatment:   I  

**Certification Levels:**      Very Small Water System (VSWS)      Water Distribution (WD) I - IV  
    Small Water Treatment System (SWTS)      Water Treatment (WT) I - IV

- |                                     |                          |                          |                          |                          |  |
|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| yes                                 | no                       | n/a                      | unk                      | note                     |  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1 Does the water system have a governing body? <u>Board</u><br>(city council, housing association, district, etc.) |
|                                     |                          |                          |                          |                          | 2 How often does the governing body meet to review water system data?<br><u>monthly</u>                            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3 Are all personnel that make water quality and quantity decisions certified?                                      |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 Is an operator certified at the level of the system available at all times?                                      |

Operator Name and Number	Water	Distribution	WW	Collection	Pond	SWTS	VSWS
Michael Riker (1900)	III	II	II	II			

- |                                     |                                     |                                     |                          |                          |   |
|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|---|
| yes                                 | no                                  | n/a                                 | unk                      | note                     |   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 5 Do you feel you have received adequate training?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 6 Is the number of people adequate to operate the water system?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 7 Do you maintain records to document compliance (up to 10 years)?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 8 Does the system have a written Emergency Response Plan?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 9 Does the system have operations and/or maintenance manuals?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 10 Do you know what to do in the event of a violation?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 11 Have there been any MCL violations or compliance orders for the system in the last 12 months?                              |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12 If so, is there a compliance plan?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 13 Is someone responsible for emergency operations, communications and customer relations?      Who? <u>office phone, Jim</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 14 Are routine operation and maintenance records kept?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 15 Is the system aware of all required sampling for the year?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 16 Does the system have current "as built" engineering drawings of the system facilities?                                     |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 17 Do you keep records of complaints and the actions taken to address each one?   |
|                                     |                                     |                                     |                          |                          | 18 How many complaints do you receive on average each year? <u>  0  </u>  |
|                                     |                                     |                                     |                          |                          | 19 What is general nature of complaints (taste, odor, color, pressure)?<br><u>NA</u>  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 20 Has the latest edition of the Consumer Confidence Report been distributed?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 21 Is a copy of the latest Consumer Confidence Report Available?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | 22 Have any changes been made since the last survey in the management, operations, personnel, budget, etc?                    |

If so, what? \_\_\_\_\_

23 Have the recommendations from the previous survey been addressed?

Comments (please indicate the question number): \_\_\_\_\_

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# Financial Capacity

Colonial Pine Hills

EPA ID: 0263

- | yes                                 | no                                  | n/a                      | unk                      | note                     |  |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1 Does the public water system have an annual budget?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2 Does the water system income exceed operating expenses (including debt service)?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3 Does the water system track budget performance?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 Does the water system have audited financial statements?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5 Are water revenues kept in a separate account?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 Is some of the water revenue set aside in reserve funds for future capital improvement projects?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 Is there a capital improvement long range plan (up to 5 years)?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 Are the water system rates reviewed on at least an annual basis?   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9 Is there a plan for rate increases?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10 Is the rate structure based on metered water use?<br>List rates: \$50/min + \$2.26/100cu ft. increases after 1000cu ft.<br>(example: \$22 minimum plus \$1.75/1000 gallons) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11 Are there procedures in place to handle delinquent accounts?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12 Are more than 5% of your customer accounts delinquent?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13 Are controls available to limit over-expenditures?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14 Are there purchasing procedures?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 15 Does the system utilize computer software (accounting or otherwise) to maintain its financial records?  |

Comments (please indicate the question number):

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# Violations and Significant Deficiencies

Colonial Pine Hills

EPA ID: 0263

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Violations From October 1, 2017 To October 1, 2022

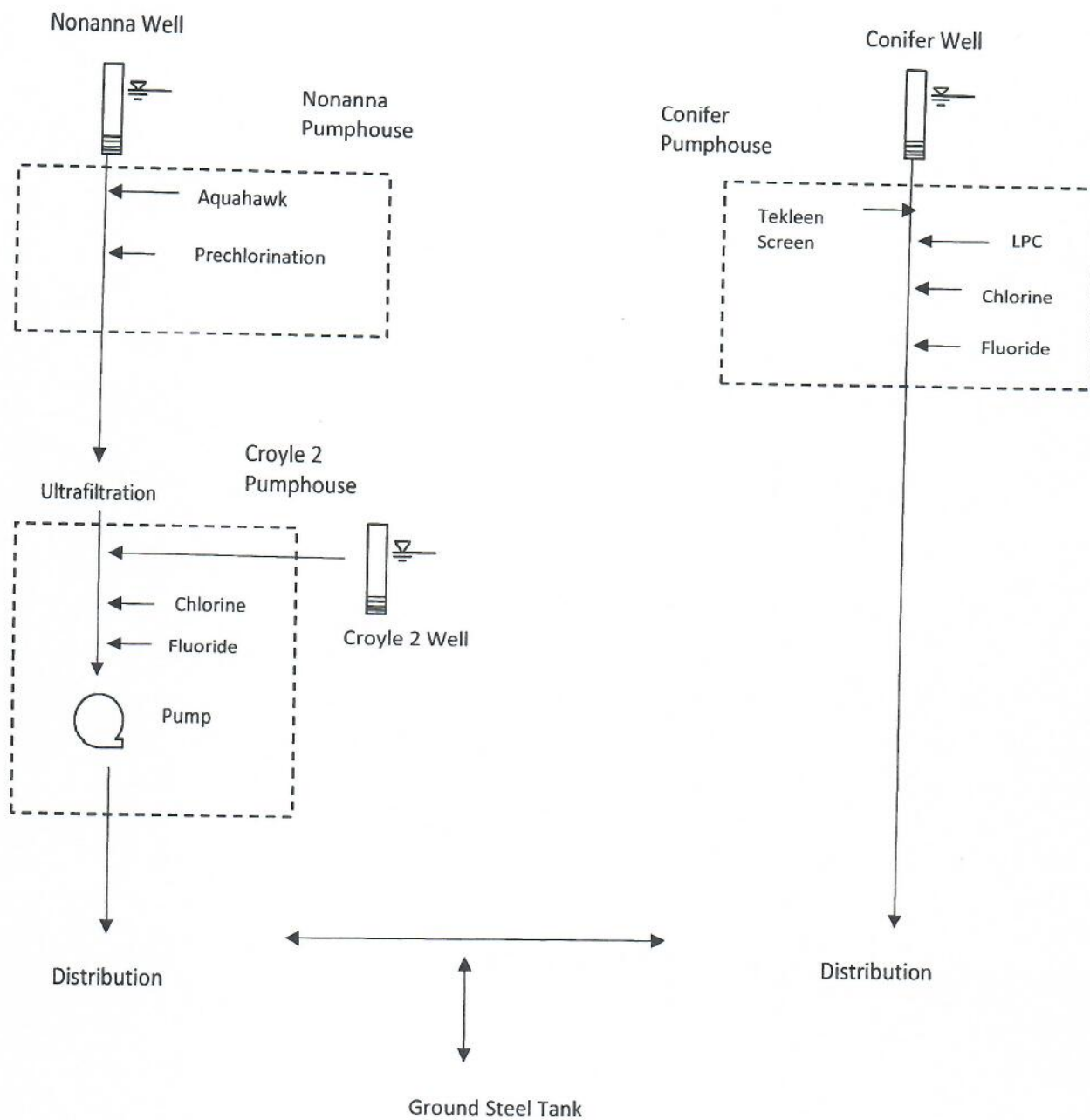
Violation Type	Parameter	Date	Status
No Violations			

Significant Deficiency	Date Identified	Date Corrected
None		

# Drawing/Flow Schematic

Colonial Pine Hills

EPA ID: 0263





2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709  
(605) 348-0111 – www.thechemistrylab.com

Sample Site: **Nonana & Croyle Well**  
 Sampled: 10/04/22 at 09:00 AM  
 by Jaime Haueter  
 Purpose: Routine  
 EPA Number: 0263  
 Colonial Pine Hills  
 Sample Matrix: Water, treated w/chl + fl  
 Lab ID#: 20221004905  
 Received: 10/04/22 at 12:00 PM  
 by Jennifer Hill  
 Account: 8591  
 DANR - Drinking Water Program

JAIME HAUETER  
DANR  
2050 WEST MAIN ST. SUITE #1  
RAPID CITY, SD 57702

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
<b>Physical Properties</b>							
Electrical Conductivity	440	µmhos/cm	1	0.200	5.00	SM 2510B	JAM 10/06/22
Hardness	196	mg/L	1			SM 2340 B	SCR 10/07/22
pH	7.80	S.U.	1			SM 4500-H+ B	JAM 10/05/22
Total Dissolved Solids	233	mg/L	100ml	13.5	50.0	SM 2540 C	MEM 10/05/22
<b>Non-Metallics</b>							
Alkalinity (CaCO3)	183	mg/L	1	0.425	10.0	SM 2320 B	JAM 10/05/22
Bicarbonate	223	mg/L	1	0.519	10.0	SM 2320 B	JAM 10/05/22
Chloride (Cl-)	19.1	mg/L	1	0.231	0.500	SM 4500-Cl E	BLL 10/05/22
Fluoride	0.477	mg/L	1			SM 4500 F-C	TMN 10/05/22
Langelier Scale Index	0.236	LSI	1			Calculation	SCR 10/07/22
Nitrogen, Nitrate (NO3)	1.40	mg/L	10	0.079	0.500	SM 4500-NO3 F	BLL 10/05/22
Nitrogen, Nitrite (NO2)	< 0.050	mg/L	1	0.006	0.050	SM 4500-NO2 B	BLL 10/05/22
Sulfate (SO4)	17.5	mg/L	1	0.928	10.0	SM 4500-SO4 E	BLL 10/05/22
<b>Metals - Dissolved</b>							
Calcium (Ca)	47.5	mg/L	1	0.055	1.00	SM 3111 B	GRT 10/06/22
Magnesium (Mg)	18.7	mg/L	1	0.061	0.500	SM 3111 B	GRT 10/06/22
Potassium (K)	3.24	mg/L	1	0.059	0.500	SM 3111 B	GRT 10/06/22
Sodium (Na)	11.5	mg/L	1	0.057	0.500	SM 3111 B	GRT 10/06/22
<b>Metals - Total</b>							
Iron (Fe)	< 0.050	mg/L	10	0.002	0.050	EPA 200.8	TNA 10/07/22
Manganese (Mn)	< 0.010	mg/L	10	0.00011	0.010	EPA 200.8	TNA 10/07/22

Approved By: Steve Distau

Approved On: 10/11/2022 10:34:23 AM



2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709  
(605) 348-0111 – www.thechemistrylab.com

Sample Site: CPH Countryside South -  
Conifer

Sampled: 10/04/22 at 09:10 AM  
by Jaime Haueter

Purpose: Routine

EPA  
Number: 0263

Colonial Pine Hills

Sample Matrix: Water, treated w/ LPC, chl, fl

Lab ID#: 20221004904

Received: 10/04/22 at 12:00 PM  
by Jennifer Hill

Account: 8591

DANR - Drinking Water Program

JAIME HAUETER  
DANR  
2050 WEST MAIN ST. SUITE #1  
RAPID CITY, SD 57702

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
<b>Physical Properties</b>							
Electrical Conductivity	396	µmhos/cm	1	0.200	5.00	SM 2510B	JAM 10/06/22
Hardness	162	mg/L	1			SM 2340 B	SCR 10/07/22
pH	7.91	S.U.	1			SM 4500-H+ B	JAM 10/05/22
Total Dissolved Solids	203	mg/L	100ml	13.5	50.0	SM 2540 C	MEM 10/05/22
<b>Non-Metallics</b>							
Alkalinity (CaCO3)	173	mg/L	1	0.425	10.0	SM 2320 B	JAM 10/05/22
Bicarbonate	211	mg/L	1	0.519	10.0	SM 2320 B	JAM 10/05/22
Chloride (Cl-)	3.63	mg/L	1	0.231	0.500	SM 4500-Cl E	BLL 10/05/22
Fluoride	0.867	mg/L	1			SM 4500 F-C	TMN 10/05/22
Langelier Scale Index	0.192	LSI	1			Calculation	SCR 10/07/22
Nitrogen, Nitrate (NO3)	< 0.500	mg/L	10	0.079	0.500	SM 4500-NO3 F	BLL 10/05/22
Nitrogen, Nitrite (NO2)	< 0.050	mg/L	1	0.006	0.050	SM 4500-NO2 B	BLL 10/05/22
Sulfate (SO4)	36.5	mg/L	1	0.928	10.0	SM 4500-SO4 E	BLL 10/05/22
<b>Metals - Dissolved</b>							
Calcium (Ca)	35.2	mg/L	1	0.055	1.00	SM 3111 B	GRT 10/06/22
Magnesium (Mg)	18.0	mg/L	1	0.061	0.500	SM 3111 B	GRT 10/06/22
Potassium (K)	3.05	mg/L	1	0.059	0.500	SM 3111 B	GRT 10/06/22
Sodium (Na)	16.9	mg/L	1	0.057	0.500	SM 3111 B	GRT 10/06/22
<b>Metals - Total</b>							
Iron (Fe)	0.187	mg/L	10	0.002	0.050	EPA 200.8	TNA 10/07/22
Manganese (Mn)	< 0.010	mg/L	10	0.00011	0.010	EPA 200.8	TNA 10/07/22

Approved By: \_\_\_\_\_

*Steve Distau*

Approved On: 10/11/2022 10:34:23 AM