

**APPENDIX A**

**CASTLEWOOD**

- A. SIMPLE MAP OF SYSTEM SHOWING  
THE LOCATION OF EACH WELL,  
WITH WELLS IDENTIFIED**

**FILED CONFIDENTIALLY**

**APPENDIX A**

**CASTLEWOOD**

**B. DEH/PWSS APPROVAL LETTER  
FOR EACH WELL**

## DEPARTMENT OF HUMAN RESOURCES

## DIVISION OF HEALTH SERVICES

RALEIGH

RECEIVED

MAY 7 '81

WESTERN REGIONAL  
OFFICE

May 5, 1981

Mr. J. D. Ruff  
4311 Greenhaven Lane  
Gastonia, North Carolina 28052

Re: Water Supply System, Castlewood Subdivision, Gaston County

Dear Mr. Ruff:

Plans and specifications for the referenced project prepared by Fox and Ritter, Incorporated have been reviewed by engineers of this Section. The plans call for the installation of a well which has a yield of 82 gpm, 5 HP submersible pump, a well house, a hypochlorination unit, a 5,000 gallon hydropneumatic storage tank with automatic air-water volume controls including an air compressor, approximately 3,100 linear feet of 3-inch and 2-inch distribution mains, valves and other appurtenances necessary to provide water service to 47 connections. These plans and specifications are approved under Division of Health Services serial number 4298, dated May 1, 1981.

Should the concentrations of iron and/or manganese in the well water rise to unacceptable levels, it is the responsibility of the owner to submit to us for approval plans and specifications covering treatment equipment necessary to control or remove the iron and/or manganese. After having gained approval, the equipment must be installed and operated without undue delays.

Prior to being placed into service, the proposed hydropneumatic storage tank must be inspected by a representative of the North Carolina Department of Labor's Boiler and Pressure Vessel Division, General Statute 95-69.10 specifically exempts certain boilers and pressure vessels under certain conditions from the construction and inspection requirements established by the Department of Labor; however, since the proposed tank has a nominal water capacity greater than 120 gallons, it is not exempt. An inspection can be arranged by contacting the office of Mr. B. L. Whitley, Director - Boiler and Pressure Vessel Division - Department of Labor at 4 West Edenton Street - Raleigh, North Carolina 27601.

One copy of the "Application for Approval..." is enclosed together with one copy of the plans and specifications bearing the Division of Health Services stamp of approval. One copy of each is being forwarded to the Gaston County Health Department. The third copy is being retained in our permanent files.

**APPENDIX A**

**CASTLEWOOD**

**D. ALL INORGANIC ANALYSES FROM EACH WELL AT THE  
WELLHEAD FOR THE LAST SIX YEARS**

Environmental Conservation Laboratories, Inc.  
102-A Woodwinds Industrial Court  
Cary, NC 27511  
Ph: (919) 467-3090 Fax: (919) 467-3515



www.encolabs.com

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Mar 01 2022

INORGANIC CHEMICAL ANALYSIS

WATER SYSTEM ID #: 01-36-345 County: Gaston

Name of Water System: CASTLEWOOD

Sample Type:  Entry Point  Special/Non-compliance

Location Where Collected: Well: 1(IOC) - CASTLEWOOD(681) - LIVE OAK COURT

Facility ID No: P01

Location Code: E01

Collected By: Mark Norman

Collection Date	Collection Time
05/19/21	02:15 pm

Mail Results to:

Aqua NC - Denver (AQ004)

Attn: Debbie Dycus

4163 Sinclair Street

Denver, NC 28037

Phone #: (704) 489-9404

Fax #: (704) 489-9409

LABORATORY ID #: 37724

SAMPLE UNSATISFACTORY

RESAMPLE REQUIRED

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
1005	Arsenic	200.8	0.005 mg/L	X	mg/L	0.01 mg/L
1010	Barium	200.8	0.4 mg/L	X	mg/L	2 mg/L
1015	Cadmium	200.8	0.001 mg/L	X	mg/L	0.005 mg/L
1020	Chromium	200.8	0.02 mg/L	X	mg/L	0.1 mg/L
1024	Cyanide (total)	335.4	0.05 mg/L	X	mg/L	0.2 mg/L
1025	Fluoride	300.0	0.1 mg/L		0.11 mg/L	4 mg/L
1028	Iron	200.7	0.06 mg/L		0.524 mg/L	0.3 mg/L
1032	Manganese	200.8	0.01 mg/L		0.179 mg/L	0.05 mg/L
1035	Mercury	245.1	0.0004 mg/L	X	mg/L	0.002 mg/L
1036	Nickel	200.8	0.1 mg/L	X	mg/L	N/A
1045	Selenium	200.8	0.01 mg/L	X	mg/L	0.05 mg/L
1052	Sodium	200.7	1 mg/L		9.66 mg/L	N/A
1055	Sulfate as SO4	300.0	5 mg/L		23 mg/L	250 mg/L
1074	Antimony	200.8	0.003 mg/L	X	mg/L	0.006 mg/L
1075	Beryllium	200.8	0.002 mg/L	X	mg/L	0.004 mg/L
1085	Thallium	200.8	0.001 mg/L	X	mg/L	0.002 mg/L
1925	pH	4500H-B	N/A	N/A	7.0 units	6.5-8.5 units

\*Note: Except for Iron and Manganese, if result exceeds allowable limit, the laboratory must fax analytical results to the State within 48 hours.

	DATE:	TIME:
ANALYSES BEGUN:	05/25/2021	10:07 am
ANALYSES COMPLETED:	06/02/2021	12:12 pm

Laboratory Log #: CE02411-01

Certified By: Bill Scott Bill Scott

COMMENTS:

3 years  
 2021

Environmental Conservation Laboratories, Inc.  
 102-A Woodwinds Industrial Court  
 Cary, NC 27511  
 Ph: (919) 467-3090 Fax: (919) 467-3515



www.encolabs.com

*G/H Spreadsheets*

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INORGANIC CHEMICAL ANALYSIS

WATER SYSTEM ID #: 01-36-345 County: Gaston

Name of Water System: CASTLEWOOD

Sample Type:  Entry Point  Special/Non-compliance

Location Where Collected: Well: 1(IOC) - CASTLEWOOD(681) - LIVE OAK COURT

Facility ID No: P01

Location Code: E01

Collected By: Mark Norman

Collection Date	Collection Time
05/22/18	09:45 am

Mail Results to:

Aqua NC - Denver (AQ004)

Attn: Debbie Dycus

4163 Sinclair Street

Denver, NC 28037

Phone #: (704) 489-9404

Fax #: (704) 489-9409

LABORATORY ID #: 37724

SAMPLE UNSATISFACTORY

RESAMPLE REQUIRED

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
1005	Arsenic	200.8	0.005 mg/L	X	mg/L	0.01 mg/L
1010	Barium	200.8	0.4 mg/L	X	mg/L	2 mg/L
1015	Cadmium	200.8	0.001 mg/L	X	mg/L	0.005 mg/L
1020	Chromium	200.8	0.02 mg/L	X	mg/L	0.1 mg/L
1024	Cyanide (total)	335.4	0.05 mg/L	X	mg/L	0.2 mg/L
1025	Fluoride	300.0	0.1 mg/L		0.12 mg/L	4 mg/L
1028	Iron	200.7	0.06 mg/L		0.545 mg/L	0.3 mg/L
1032	Manganese	200.8	0.01 mg/L		0.159 mg/L	0.05 mg/L
1035	Mercury	245.1	0.0004 mg/L	X	mg/L	0.002 mg/L
1036	Nickel	200.8	0.1 mg/L	X	mg/L	N/A
1045	Selenium	200.8	0.01 mg/L	X	mg/L	0.05 mg/L
1052	Sodium	200.7	1 mg/L		10.6 mg/L	N/A
1055	Sulfate as SO4	300.0	5 mg/L		23 mg/L	250 mg/L
1074	Antimony	200.8	0.003 mg/L	X	mg/L	0.006 mg/L
1075	Beryllium	200.8	0.002 mg/L	X	mg/L	0.004 mg/L
1085	Thallium	200.8	0.001 mg/L	X	mg/L	0.002 mg/L
1925	pH	4500H-B	N/A	N/A	7.6 units	6.5-8.5 units

\*Note: Except for Iron and Manganese, if result exceeds allowable limit, the laboratory must fax analytical results to the State within 48 hours.

	DATE:	TIME:
ANALYSES BEGUN:	05/24/2018	12:58 pm
ANALYSES COMPLETED:	06/04/2018	5:35 pm

Laboratory Log #: CB02800-01

Certified By: Bill Scott Bill Scott

COMMENTS: 4/23/15  
 pH = 7.2  
 Na = 12.5  
 Fe = 0.16 Fe = 0.16  
 Sul = 26.4 Mn = 0.14



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### INORGANIC CHEMICAL ANALYSIS

Note: All information must be supplied for compliance credit. ✓

WATER SYSTEM ID#: 0 1 - 3 6 - 3 4 5

County: Gaston

Name of Water System: Castlewood

Sample Type:  Entry Point  Non-compliance

Location Where Collected: Castlewood P01 (W1)

Facility ID No.: P 0 1

Sample Point: E 0 1

Collected By: Luis Rojas  
(Please Print)

Collection Date

0 4 / 2 3 / 1 5  
(MM/DD/YY)

Collection Time

0 9 : 1 0 , A M  
(Specify AM or PM)

Mail Results to (water system representative):

Debbie Gentry

4163 Sinclair St.

Denver, NC 28037

Phone #: ( 704 ) 489-9404

Fax #: ( 704 ) 489-9409

Responsible Person's email:

dagentry@aquaaamerica.com

LABORATORY ID #: 1 2 7 1 0

SAMPLE UNSATISFACTORY

RESAMPLE REQUIRED

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e. < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
1005	Arsenic	200.8	0.005 mg/L	<input checked="" type="checkbox"/>		0.010 mg/L
1010	Barium	200.7	0.400 mg/L	<input checked="" type="checkbox"/>		2.000 mg/L
1015	Cadmium	200.7	0.001 mg/L	<input checked="" type="checkbox"/>		0.005 mg/L
1020	Chromium	200.7	0.020 mg/L	<input checked="" type="checkbox"/>		0.100 mg/L
1024	Cyanide	335.4	0.050 mg/L	<input checked="" type="checkbox"/>		0.200 mg/L
1025	Fluoride	300.0	0.100 mg/L	<input type="checkbox"/>	<u>0 1 6 0 0</u>	1.000 mg/L
1028	Iron	200.7	0.060 mg/L	<input type="checkbox"/>	<u>0 4 6 0 0</u>	0.300 mg/L
1032	Manganese	200.7	0.010 mg/L	<input type="checkbox"/>	<u>0 1 4 0 0</u>	0.050 mg/L
1035	Mercury	245.1	0.0004 mg/L	<input checked="" type="checkbox"/>		0.002 mg/L
1036	Nickel	200.7	0.100 mg/L	<input checked="" type="checkbox"/>		N/A
1045	Selenium	200.8	0.010 mg/L	<input checked="" type="checkbox"/>		0.050 mg/L
1052	Sodium	200.7	1.0 mg/L	<input type="checkbox"/>	<u>1 2 5 0 0 0</u>	N/A
1055	Sulfate	300.0	15.0 mg/L	<input type="checkbox"/>	<u>2 6 4 0 0 0</u>	250.0 mg/L
1074	Antimony	200.8	0.003 mg/L	<input checked="" type="checkbox"/>		0.006 mg/L
1075	Beryllium	200.7	0.002 mg/L	<input checked="" type="checkbox"/>		0.004 mg/L
1085	Thallium	200.8	0.001 mg/L	<input checked="" type="checkbox"/>		0.002 mg/L
1925	pH	450011-B	N/A	<input type="checkbox"/>	<u>7 2 0 0 0</u>	6.5-8.5

\*Note: Except for Iron, Manganese, and Sulfate, if result exceeds allowable limit, the laboratory must fax analytical results to the State within 48 hours.

ANALYSES BEGUN:	DATE: <u>0 4 / 2 7 / 1 5</u> (MM/DD/YY)	TIME: <u>1 1 : 0 5 , A M</u> (Specify AM or PM)
ANALYSES COMPLETED:	DATE: <u>0 5 / 0 5 / 1 5</u> (MM/DD/YY)	TIME: <u>0 2 : 2 1 , P M</u> (Specify AM or PM)

Laboratory Log #: 92246798001

Certified By: Taylor Ezell

(Print and sign name)

COMMENTS: \_\_\_\_\_

## **APPENDIX A**

### **CASTLEWOOD**

**E. COPIES OF ALL IRON AND/OR MANGANESE  
ANALYSES FOR SOLUBLE AND  
INSOLUBLE THE PAST THREE YEARS –  
BASELINE (WITHOUT TREATMENT),  
WELL HEAD (AFTER TREATMENT),  
AND DISTRIBUTION SYSTEM (AFTER TREATMENT)**

**NO SPECIAL INORGANIC CHEMICAL ANALYSES HAVE  
BEEN TAKEN IN THE PAST THREE YEARS.**



**APPENDIX A**

**CASTLEWOOD**

**F. COPIES OF THE PUMP STATUS REPORTS FOR EACH  
WELL FOR THE LAST TWO YEARS**

**PUMP STATUS REPORT FORM**

WATER SYSTEM NAME: Castlewood  
 PWS ID #: NC 01-36-345  
 WELL NO: Well-1  
 WELL PUMP: \_\_\_\_\_  
 BOOSTER PUMP: \_\_\_\_\_

TANK #1 \_\_\_\_\_ TANK #2 \_\_\_\_\_  
 TYPE \_\_\_\_\_ TYPE \_\_\_\_\_  
 TOTAL CAPACITY \_\_\_\_\_ TOTAL CAPACITY \_\_\_\_\_  
 OPERATING PRESSURE \_\_\_\_\_ OPERATING PRESSURE \_\_\_\_\_

Date Read	No. Days	Master Meter Reading	Gallons Pumped	Time Meter Reading	Total Hrs. Oper	GPD Pumped	Impulse Meter Reading	Impulse Meter Count	Avg. Pump Cycles / Day	Avg. Dur (mins)	Hrs / Day	Avg. GPM	Avg Water Pumped / Cycle (gals)	Sodium Hypchlorite Added (gals)	Orthophosphate Added (oz)	Sodium Hydroxide Added (gals)
1/3/2020	3	22165000	7100	5828	2	2367	46380	13	4.33	9.23	0.67	59.17	4.33			
1/8/2020	5	22177300	12300	5830	2	2460	46403	23	4.60	5.22	0.40	102.50	4.60			
1/10/2020	2	22181700	4400	5831	1	2200	46411	8	4.00	7.50	0.50	73.33	4.00			
1/13/2020	3	22187500	5800	5833	2	1933	46422	11	3.67	10.91	0.67	48.33	3.67			
1/17/2020	4	22197000	9500	5835	2	2375	46440	18	4.50	6.67	0.50	79.17	4.50			
1/22/2020	5	22208200	11200	5837	2	2240	46461	21	4.20	5.71	0.40	93.33	4.20			
1/24/2020	2	22211500	3300	5838	1	1650	46468	7	3.50	8.57	0.50	55.00	3.50			
1/28/2020	4	22219400	7900	5840	2	1975	46482	14	3.50	8.57	0.50	65.83	3.50			
1/31/2020	3	22225400	6000	5841	1	2000	46493	11	3.67	5.45	0.33	100.00	3.67			
2/4/2020	4	22233900	8500	5843	2	2125	46509	16	4.00	7.50	0.50	70.83	4.00			
2/6/2020	2	22237600	3700	5844	1	1850	46516	7	3.50	8.57	0.50	61.67	3.50			
2/11/2020	5	22247200	9600	5846	2	1920	46534	18	3.60	6.67	0.40	80.00	3.60			
2/14/2020	3	22252900	5700	5847	1	1900	46544	10	3.33	6.00	0.33	95.00	3.33			
2/19/2020	5	22263300	10400	5849	2	2080	46563	19	3.80	6.32	0.40	86.67	3.80			
2/21/2020	2	22266400	3100	5850	1	1550	46569	6	3.00	10.00	0.50	51.67	3.00			
2/25/2020	4	22274300	7900	5852	2	1975	46583	14	3.50	8.57	0.50	65.83	3.50			

PUMP STATUS REPORT FORM

2/27/2020	2	22278100	3800	5853	1	1900	46590	7	3.50	8.57	0.50	63.33	3.50		
3/4/2020	6	22290500	12400	5855	2	2067	46613	23	3.83	5.22	0.33	103.33	3.83		
3/6/2020	2	22294100	3600	5856	1	1800	46620	7	3.50	8.57	0.50	60.00	3.50		
3/10/2020	4	22302900	8800	5858	2	2200	46636	16	4.00	7.50	0.50	73.33	4.00		
3/12/2020	2	22306900	4000	5859	1	2000	46643	7	3.50	8.57	0.50	66.67	3.50		
3/17/2020	5	22317000	10100	5861	2	2020	46661	18	3.60	6.67	0.40	84.17	3.60		
3/20/2020	3	22323100	6100	5863	2	2033	46672	11	3.67	10.91	0.67	50.83	3.67		
3/23/2020	3	22331400	8300	5865	2	2767	46687	15	5.00	8.00	0.67	69.17	5.00		
3/27/2020	4	22341400	10000	5867	2	2500	46706	19	4.75	6.32	0.50	83.33	4.75		
3/31/2020	4	22351500	10100	5869	2	2525	46725	19	4.75	6.32	0.50	84.17	4.75		
4/3/2020	3	22358100	6600	5870	1	2200	46736	11	3.67	5.45	0.33	110.00	3.67		
4/7/2020	4	22367900	9800	5873	3	2450	46753	17	4.25	10.59	0.75	54.44	4.25		
4/10/2020	3	22374600	6700	5874	1	2233	46765	12	4.00	5.00	0.33	111.67	4.00		
4/13/2020	3	22380800	6200	5876	2	2067	46776	11	3.67	10.91	0.67	51.67	3.67		
4/15/2020	2	22388700	7900	5877	1	3950	46789	13	6.50	4.62	0.50	131.67	6.50		
4/20/2020	5	22405100	16400	5881	4	3280	46818	29	5.80	8.28	0.80	68.33	5.80		
4/23/2020	3	22410200	5100	5882	1	1700	46829	11	3.67	5.45	0.33	85.00	3.67		
4/28/2020	5	22421500	11300	5885	3	2260	46849	20	4.00	9.00	0.60	62.78	4.00		
4/30/2020	2	22427600	6100	5886	1	3050	46858	9	4.50	6.67	0.50	101.67	4.50		
5/6/2020	6	22440900	13300	5889	3	2217	46882	24	4.00	7.50	0.50	73.89	4.00		
5/8/2020	2	22446100	5200	5890	1	2600	46891	9	4.50	6.67	0.50	86.67	4.50		
5/12/2020	4	22455000	8900	5892	2	2225	46907	16	4.00	7.50	0.50	74.17	4.00		
5/15/2020	3	22461600	6600	5893	1	2200	46919	12	4.00	5.00	0.33	110.00	4.00		
5/20/2020	5	22474400	12800	5896	3	2560	46943	24	4.80	7.50	0.60	71.11	4.80		
5/22/2020	2	22478600	4200	5897	1	2100	46951	8	4.00	7.50	0.50	70.00	4.00		
5/26/2020	4	22488400	9800	5899	2	2450	46970	19	4.75	6.32	0.50	81.67	4.75		
5/28/2020	2	22491900	3500	5900	1	1750	46977	7	3.50	8.57	0.50	58.33	3.50		
6/1/2020	4	22500900	9000	5902	2	2250	46995	18	4.50	6.67	0.50	75.00	4.50		

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6/5/2020	4	22508700	7800	5904	2	1950	47011	16	4.00	7.50	0.50	65.00	4.00		
6/9/2020	4	22515100	6400	5905	1	1600	47022	11	2.75	5.45	0.25	106.67	2.75		
6/12/2020	3	22524600	9500	5907	2	3167	47034	12	4.00	10.00	0.67	79.17	4.00		
6/15/2020	3	22532000	7400	5909	2	2467	47044	10	3.33	12.00	0.67	61.67	3.33		
6/18/2020	3	22537100	5100	5910	1	1700	47051	7	2.33	8.57	0.33	85.00	2.33		
6/23/2020	5	22548000	10900	5913	3	2180	47068	17	3.40	10.59	0.60	60.56	3.40		
6/25/2020	2	22553700	5700	5914	1	2850	47076	8	4.00	7.50	0.50	95.00	4.00		
6/29/2020	4	22572100	18400	5918	4	4600	47101	25	6.25	9.60	1.00	76.67	6.25		
7/2/2020	3	22577600	5500	5919	1	1833	47109	8	2.67	7.50	0.33	91.67	2.67		
7/7/2020	5	22591100	13500	5922	3	2700	47129	20	4.00	9.00	0.60	75.00	4.00		
7/9/2020	2	22596500	5400	5923	1	2700	47137	8	4.00	7.50	0.50	90.00	4.00		
7/13/2020	4	22608200	11700	5926	3	2925	47155	18	4.50	10.00	0.75	65.00	4.50		
7/17/2020	4	22618300	10100	5928	2	2525	47171	16	4.00	7.50	0.50	84.17	4.00		
7/20/2020	3	22626300	8000	5930	2	2667	47184	13	4.33	9.23	0.67	66.67	4.33		
7/24/2020	4	22634100	7800	5932	2	1950	47197	13	3.25	9.23	0.50	65.00	3.25		
7/27/2020	3	22641700	7600	5933	1	2533	47210	13	4.33	4.62	0.33	126.67	4.33		
7/30/2020	3	22647400	5700	5935	2	1900	47220	10	3.33	12.00	0.67	47.50	3.33		
8/3/2020	4	22657200	9800	5937	2	2450	47237	17	4.25	7.06	0.50	81.67	4.25		
8/6/2020	3	22664300	7100	5938	1	2367	47250	13	4.33	4.62	0.33	118.33	4.33		
8/11/2020	5	22676600	12300	5941	3	2460	47273	23	4.60	7.83	0.60	68.33	4.60		
8/13/2020	2	22680700	4100	5942	1	2050	47281	8	4.00	7.50	0.50	68.33	4.00		
8/18/2020	5	22693900	13200	5945	3	2640	47307	26	5.20	6.92	0.60	73.33	5.20		
8/21/2020	3	22701700	7800	5947	2	2600	47323	16	5.33	7.50	0.67	65.00	5.33		
8/24/2020	3	22709200	7500	5948	1	2500	47339	16	5.33	3.75	0.33	125.00	5.33		
8/28/2020	4	22717900	8700	5950	2	2175	47358	19	4.75	6.32	0.50	72.50	4.75		
9/2/2020	5	22730000	12100	5953	3	2420	47385	27	5.40	6.67	0.60	67.22	5.40		
9/4/2020	2	22732500	2500	5954	1	1250	47390	5	2.50	12.00	0.50	41.67	2.50		
9/8/2020	4	22743300	10800	5956	2	2700	47403	13	3.25	9.23	0.50	90.00	3.25		

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PUMP STATUS REPORT FORM

9/11/2020	3	22750600	7300	5958	2	2433	47412	9	3.00	13.33	0.67	60.83	3.00			
9/14/2020	3	22758900	8300	5959	1	2767	47422	10	3.33	6.00	0.33	138.33	3.33			
9/17/2020	3	22766000	7100	5961	2	2367	47431	9	3.00	13.33	0.67	59.17	3.00			
9/21/2020	4	22773800	7800	5963	2	1950	47441	10	2.50	12.00	0.50	65.00	2.50			
9/25/2020	4	22781300	7500	5964	1	1875	47451	10	2.50	6.00	0.25	125.00	2.50			
9/30/2020	5	22792000	10700	5967	3	2140	47466	15	3.00	12.00	0.60	59.44	3.00			
10/2/2020	2	22796000	4000	5968	1	2000	47472	6	3.00	10.00	0.50	66.67	3.00			
10/5/2020	3	22802500	6500	5969	1	2167	47481	9	3.00	6.67	0.33	108.33	3.00			
10/8/2020	3	22808000	5500	5970	1	1833	47489	8	2.67	7.50	0.33	91.67	2.67			
10/13/2020	5	22817400	9400	5972	2	1880	47503	14	2.80	8.57	0.40	78.33	2.80			
10/15/2020	2	22820700	3300	5973	1	1650	47508	5	2.50	12.00	0.50	55.00	2.50			
10/19/2020	4	22828500	7800	5975	2	1950	47520	12	3.00	10.00	0.50	65.00	3.00			
10/23/2020	4	22835500	7000	5976	1	1750	47531	11	2.75	5.45	0.25	116.67	2.75			
10/27/2020	4	22843700	8200	5978	2	2050	47544	13	3.25	9.23	0.50	68.33	3.25			
10/29/2020	2	22846700	3000	5979	1	1500	47549	5	2.50	12.00	0.50	50.00	2.50			
11/3/2020	5	22856400	9700	5981	2	1940	47565	16	3.20	7.50	0.40	80.83	3.20			
11/6/2020	3	22861400	5000	5982	1	1667	47574	9	3.00	6.67	0.33	83.33	3.00			
11/10/2020	4	22869900	8500	5984	2	2125	47589	15	3.75	8.00	0.50	70.83	3.75			
11/12/2020	2	22873700	3800	5985	1	1900	47596	7	3.50	8.57	0.50	63.33	3.50			
11/16/2020	4	22888200	14500	5988	3	3625	47622	26	6.50	6.92	0.75	80.56	6.50			
11/20/2020	4	22897800	9600	5990	2	2400	47640	18	4.50	6.67	0.50	80.00	4.50			
11/23/2020	3	22904400	6600	5992	2	2200	47653	13	4.33	9.23	0.67	55.00	4.33			
11/25/2020	2	22908400	4000	5993	1	2000	47661	8	4.00	7.50	0.50	66.67	4.00			
12/1/2020	6	22918900	10500	5995	2	1750	47683	22	3.67	5.45	0.33	87.50	3.67			
12/4/2020	3	22929200	10300	5997	2	3433	47697	14	4.67	8.57	0.67	85.83	4.67			
12/8/2020	4	22937600	8400	5999	2	2100	47716	19	4.75	6.32	0.50	70.00	4.75			
12/11/2020	3	22941800	4200	6000	1	1400	47726	10	3.33	6.00	0.33	70.00	3.33			

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 Mar 01 2022

PUMP STATUS REPORT FORM

12/15/2020	4	22947800	6000	6001	1	1500	47739	13	3.25	4.62	0.25	100.00	3.25			
12/17/2020	2	22950600	2800	6002	1	1400	47743	4	2.00	15.00	0.50	46.67	2.00			
12/21/2020	4	22958100	7500	6004	2	1875	47754	11	2.75	10.91	0.50	62.50	2.75			
12/23/2020	2	22961800	3700	6005	1	1850	47759	5	2.50	12.00	0.50	61.67	2.50			
12/28/2020	5	22971000	9200	6007	2	1840	47773	14	2.80	8.57	0.40	76.67	2.80			
12/31/2020	3	22978200	7200	6008	1	2400	47784	11	3.67	5.45	0.33	120.00	3.67			
1/4/2021	4	22991000	12800	6011	3	3200	47803	19	4.75	9.47	0.75	71.11	4.75			
1/8/2021	4	22997800	6800	6013	2	1700	47814	11	2.75	10.91	0.50	56.67	2.75			
1/11/2021	3	23003100	5300	6014	1	1767	47823	9	3.00	6.67	0.33	88.33	3.00			
1/15/2021	4	23009500	6400	6015	1	1600	47834	11	2.75	5.45	0.25	106.67	2.75			
1/19/2021	4	23016800	7300	6017	2	1825	47847	13	3.25	9.23	0.50	60.83	3.25			
1/21/2021	2	23020100	3300	6018	1	1650	47853	6	3.00	10.00	0.50	55.00	3.00			
1/25/2021	4	23027100	7000	6019	1	1750	47866	13	3.25	4.62	0.25	116.67	3.25			
1/29/2021	4	23032800	5700	6020	1	1425	47877	11	2.75	5.45	0.25	95.00	2.75			
2/2/2021	4	23039900	7100	6022	2	1775	47891	14	3.50	8.57	0.50	59.17	3.50			
2/4/2021	2	23043800	3900	6023	1	1950	47899	8	4.00	7.50	0.50	65.00	4.00			
2/9/2021	5	23058400	14600	6026	3	2920	47925	26	5.20	6.92	0.60	81.11	5.20			
2/12/2021	3	23064800	6400	6027	1	2133	47939	14	4.67	4.29	0.33	106.67	4.67			
2/15/2021	3	23070200	5400	6029	2	1800	47951	12	4.00	10.00	0.67	45.00	4.00			
2/19/2021	4	23079800	9600	6031	2	2400	47973	22	5.50	5.45	0.50	80.00	5.50			
2/24/2021	5	23090300	10500	6033	2	2100	47998	25	5.00	4.80	0.40	87.50	5.00			
2/26/2021	2	23091700	1400	6034	1	700	48000	2	1.00	30.00	0.50	23.33	1.00			
3/2/2021	4	23100800	9100	6035	1	2275	48011	11	2.75	5.45	0.25	151.67	2.75			
3/5/2021	3	23106700	5900	6037	2	1967	48019	8	2.67	15.00	0.67	49.17	2.67			
3/9/2021	4	23114500	7800	6039	2	1950	48028	9	2.25	13.33	0.50	65.00	2.25			
3/11/2021	2	23117800	3300	6039	0	1650	48032	4	2.00	0.00	0.00	#Error	2.00			
3/16/2021	5	23133900	16100	6043	4	3220	48052	20	4.00	12.00	0.80	67.08	4.00			
3/19/2021	3	23140000	6100	6044	1	2033	48060	8	2.67	7.50	0.33	101.67	2.67			

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 Mar 01 2022



PUMP STATUS REPORT FORM

3/22/2021	3	23145900	5900	6046	2	1967	48068	8	2.67	15.00	0.67	49.17	2.67			
3/25/2021	3	23151100	5200	6047	1	1733	48075	7	2.33	8.57	0.33	86.67	2.33			
3/29/2021	4	23158400	7300	6048	1	1825	48085	10	2.50	6.00	0.25	121.67	2.50			
4/2/2021	4	23165500	7100	6050	2	1775	48095	10	2.50	12.00	0.50	59.17	2.50			
4/7/2021	5	23175300	9800	6052	2	1960	48109	14	2.80	8.57	0.40	81.67	2.80			
4/9/2021	2	23178000	2700	6053	1	1350	48113	4	2.00	15.00	0.50	45.00	2.00			
4/12/2021	3	23187600	9600	6055	2	3200	48127	14	4.67	8.57	0.67	80.00	4.67			
4/15/2021	3	23193000	5400	6056	1	1800	48135	8	2.67	7.50	0.33	90.00	2.67			
4/21/2021	6	23203900	10900	6058	2	1817	48152	17	2.83	7.06	0.33	90.83	2.83			
4/23/2021	2	23207600	3700	6059	1	1850	48158	6	3.00	10.00	0.50	61.67	3.00			
4/26/2021	3	23213000	5400	6060	1	1800	48167	9	3.00	6.67	0.33	90.00	3.00			
4/30/2021	4	23221000	8000	6062	2	2000	48180	13	3.25	9.23	0.50	66.67	3.25			
5/4/2021	4	23229800	8800	6064	2	2200	48195	15	3.75	8.00	0.50	73.33	3.75			
5/5/2021	1	23231900	2100	6064	0	2100	48197	2	2.00	0.00	0.00	#Error	2.00			
5/10/2021	5	23240600	8700	6067	3	1740	48214	17	3.40	10.59	0.60	48.33	3.40			
5/13/2021	3	23248400	7800	6068	1	2600	48228	14	4.67	4.29	0.33	130.00	4.67			
5/17/2021	4	23256300	7900	6070	2	1975	48243	15	3.75	8.00	0.50	65.83	3.75			
5/21/2021	4	23265100	8800	6072	2	2200	48264	21	5.25	5.71	0.50	73.33	5.25			
5/24/2021	3	23272800	7700	6074	2	2567	48279	15	5.00	8.00	0.67	64.17	5.00			
5/27/2021	3	23279000	6200	6075	1	2067	48291	12	4.00	5.00	0.33	103.33	4.00			
6/2/2021	6	23298000	19000	6079	4	3167	48329	38	6.33	6.32	0.67	79.17	6.33			
6/4/2021	2	23302800	4800	6080	1	2400	48338	9	4.50	6.67	0.50	80.00	4.50			
6/8/2021	4	23310200	7400	6082	2	1850	48355	17	4.25	7.06	0.50	61.67	4.25			
6/10/2021	2	23313900	3700	6083	1	1850	48363	8	4.00	7.50	0.50	61.67	4.00			
6/15/2021	5	23324900	11000	6085	2	2200	48388	25	5.00	4.80	0.40	91.67	5.00			
6/17/2021	2	23330600	5700	6087	2	2850	48401	13	6.50	9.23	1.00	47.50	6.50			
6/21/2021	4	23337400	6800	6088	1	1700	48417	16	4.00	3.75	0.25	113.33	4.00			
6/24/2021	3	23344200	6800	6090	2	2267	48434	17	5.67	7.06	0.67	56.67	5.67			

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 Mar 01 2022

PUMP STATUS REPORT FORM

6/28/2021	4	23353300	9100	6092	2	2275	48457	23	5.75	5.22	0.50	75.83	5.75		
7/1/2021	3	23358300	5000	6093	1	1667	48470	13	4.33	4.62	0.33	83.33	4.33		
7/6/2021	5	23371500	13200	6096	3	2640	48506	36	7.20	5.00	0.60	73.33	7.20		
7/9/2021	3	23377200	5700	6097	1	1900	48522	16	5.33	3.75	0.33	95.00	5.33		
7/12/2021	3	23389900	12700	6100	3	4233	48555	33	11.00	5.45	1.00	70.56	11.00		
7/15/2021	3	23397700	7800	6102	2	2600	48600	45	15.00	2.67	0.67	65.00	15.00		
7/19/2021	4	23410600	12900	6105	3	3225	48669	69	17.25	2.61	0.75	71.67	17.25		
7/22/2021	3	23419700	9100	6107	2	3033	48713	44	14.67	2.73	0.67	75.83	14.67		
7/26/2021	4	23444000	24300	6112	5	6075	48760	47	11.75	6.38	1.25	81.00	11.75		
7/30/2021	4	23453500	9500	6114	2	2375	48796	36	9.00	3.33	0.50	79.17	9.00		
8/4/2021	5	23471600	18100	6118	4	3620	48872	76	15.20	3.16	0.80	75.42	15.20		
8/6/2021	2	23482000	10400	6121	3	5200	48908	36	18.00	5.00	1.50	57.78	18.00		
8/9/2021	3	23506700	24700	6126	5	8233	48949	41	13.67	7.32	1.67	82.33	13.67		
8/12/2021	3	23546500	39800	6135	9	13267	49014	65	21.67	8.31	3.00	73.70	21.67		
8/17/2021	5	23639500	93000	6156	21	18600	49165	151	30.20	8.34	4.20	73.81	30.20		
8/20/2021	3	23646500	7000	6158	2	2333	49178	13	4.33	9.23	0.67	58.33	4.33		
8/23/2021	3	23654100	7600	6160	2	2533	49193	15	5.00	8.00	0.67	63.33	5.00		
8/26/2021	3	23660800	6700	6161	1	2233	49207	14	4.67	4.29	0.33	111.67	4.67		
8/30/2021	4	23671400	10600	6164	3	2650	49230	23	5.75	7.83	0.75	58.89	5.75		
9/2/2021	3	23677900	6500	6165	1	2167	49245	15	5.00	4.00	0.33	108.33	5.00		
9/8/2021	6	23695000	17100	6169	4	2850	49286	41	6.83	5.85	0.67	71.25	6.83		
9/10/2021	2	23700100	5100	6170	1	2550	49299	13	6.50	4.62	0.50	85.00	6.50		
9/13/2021	3	23706300	6200	6171	1	2067	49316	17	5.67	3.53	0.33	103.33	5.67		
9/16/2021	3	23712300	6000	6173	2	2000	49332	16	5.33	7.50	0.67	50.00	5.33		
9/21/2021	5	23721500	9200	6175	2	1840	49359	27	5.40	4.44	0.40	76.67	5.40		
9/23/2021	2	23726400	4900	6176	1	2450	49374	15	7.50	4.00	0.50	81.67	7.50		
9/27/2021	4	23737300	10900	6178	2	2725	49398	24	6.00	5.00	0.50	90.83	6.00		
10/1/2021	4	23751100	13800	6181	3	3450	49411	13	3.25	13.85	0.75	76.67	3.25		

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 Mar 01 2022

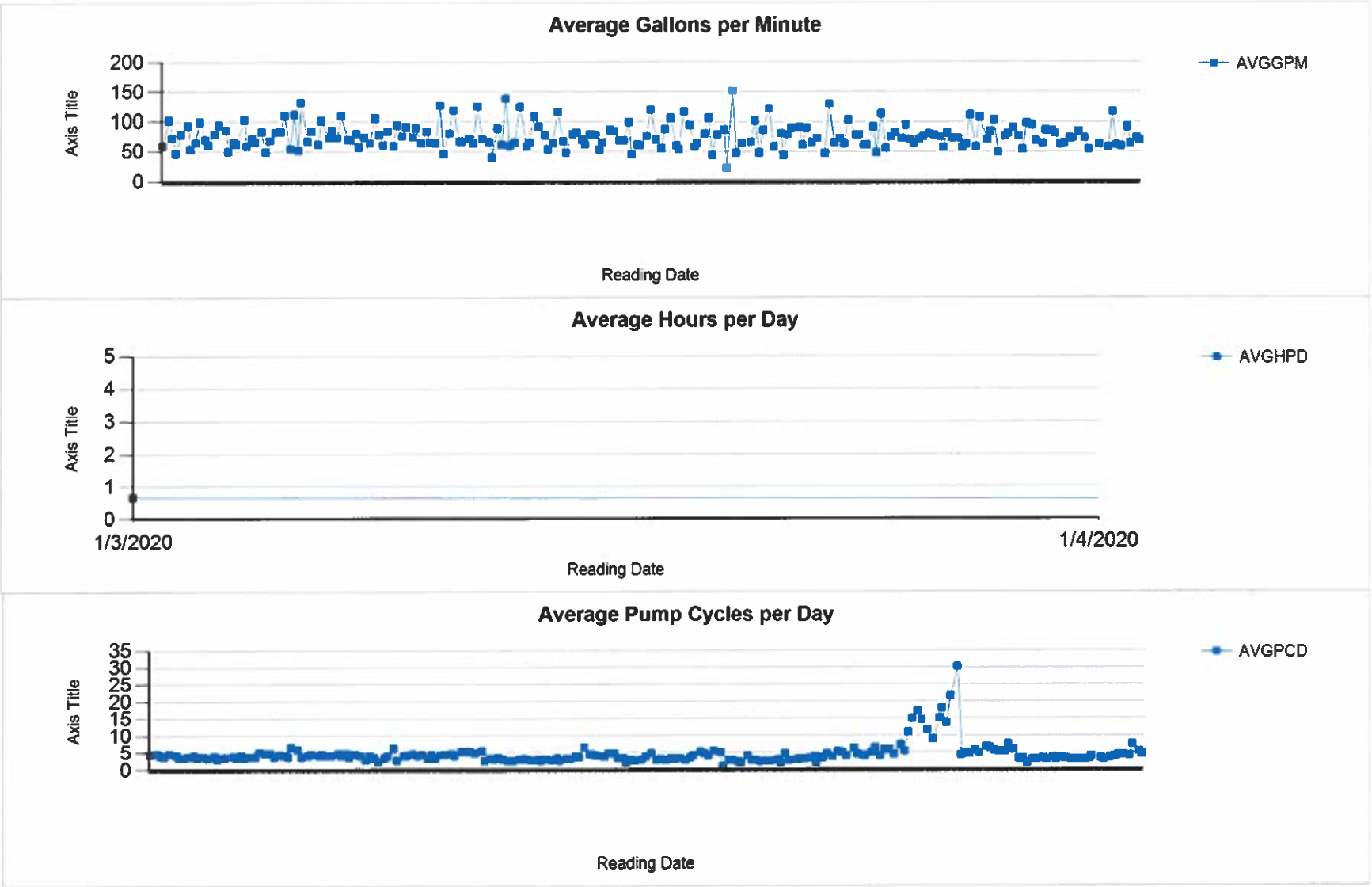


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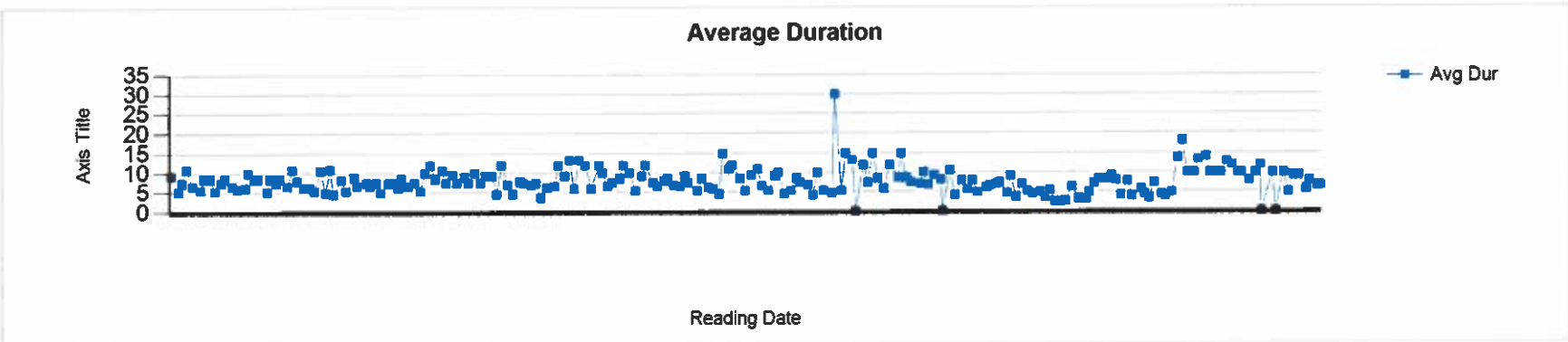
10/4/2021	3	23761000	9900	6184	3	3300	49421	10	3.33	18.00	1.00	55.00	3.33		
10/7/2021	3	23766900	5900	6185	1	1967	49427	6	2.00	10.00	0.33	98.33	2.00		
10/11/2021	4	23778300	11400	6187	2	2850	49439	12	3.00	10.00	0.50	95.00	3.00		
10/14/2021	3	23786600	8300	6189	2	2767	49448	9	3.00	13.33	0.67	69.17	3.00		
10/19/2021	5	23802100	15500	6193	4	3100	49465	17	3.40	14.12	0.80	64.58	3.40		
10/21/2021	2	23807300	5200	6194	1	2600	49471	6	3.00	10.00	0.50	86.67	3.00		
10/26/2021	5	23822800	15500	6197	3	3100	49489	18	3.60	10.00	0.60	86.11	3.60		
10/28/2021	2	23827700	4900	6198	1	2450	49495	6	3.00	10.00	0.50	81.67	3.00		
11/1/2021	4	23839100	11400	6201	3	2850	49509	14	3.50	12.86	0.75	63.33	3.50		
11/4/2021	3	23846900	7800	6203	2	2600	49519	10	3.33	12.00	0.67	65.00	3.33		
11/8/2021	4	23855800	8900	6205	2	2225	49531	12	3.00	10.00	0.50	74.17	3.00		
11/10/2021	2	23860200	4400	6206	1	2200	49537	6	3.00	10.00	0.50	73.33	3.00		
11/15/2021	5	23870400	10200	6208	2	2040	49552	15	3.00	8.00	0.40	85.00	3.00		
11/19/2021	4	23879300	8900	6210	2	2225	49564	12	3.00	10.00	0.50	74.17	3.00		
11/22/2021	3	23885900	6600	6212	2	2200	49574	10	3.33	12.00	0.67	55.00	3.33		
11/23/2021	1	23888600	2700	6212	0	2700	49578	4	4.00	0.00	0.00	#Error	4.00		
11/30/2021	7	23903800	15200	6216	4	2171	49602	24	3.43	10.00	0.57	63.33	3.43		
12/2/2021	2	23907900	4100	6216	0	2050	49608	6	3.00	0.00	0.00	#Error	3.00		
12/7/2021	5	23918400	10500	6219	3	2100	49626	18	3.60	10.00	0.60	58.33	3.60		
12/10/2021	3	23925400	7000	6220	1	2333	49638	12	4.00	5.00	0.33	116.67	4.00		
12/13/2021	3	23932800	7400	6222	2	2467	49651	13	4.33	9.23	0.67	61.67	4.33		
12/16/2021	3	23940000	7200	6224	2	2400	49664	13	4.33	9.23	0.67	60.00	4.33		
12/21/2021	5	23951000	11000	6226	2	2200	49685	21	4.20	5.71	0.40	91.67	4.20		
12/23/2021	2	23958800	7800	6228	2	3900	49700	15	7.50	8.00	1.00	65.00	7.50		
12/28/2021	5	23972200	13400	6231	3	2680	49727	27	5.40	6.67	0.60	74.44	5.40		
12/30/2021	2	23976400	4200	6232	1	2100	49736	9	4.50	6.67	0.50	70.00	4.50		

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 Mar 01 2022

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**APPENDIX A**

**CASTLEWOOD**

**G. ORIGINAL 24-HOUR PUMP TEST FOR EACH WELL**

**NOT AVAILABLE**

## **APPENDIX A**

### **CASTLEWOOD**

- H. COPIES WITHIN THE LAST SIX MONTHS OF ALL AQUA NC EMAILS TO AND FROM PWSS, LETTERS TO AND FROM PWSS, REPORTS TO AND FROM PWSS, AND THE RECOMMENDATIONS OF PWSS REGARDING WATER QUALITY CONCERNS ON AQUA NC'S WATER SYSTEMS**

**THERE IS NO CORRESPONDENCE THAT CAN BE LOCATED WITHIN THE LAST SIX MONTHS WITH PWSS.**