

APPENDIX C

SUNSET HILLS

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

FILED CONFIDENTIALLY

APPENDIX C

SUNSET HILLS

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



Division of Environmental Health
Terry L. Pierce, Director

Public Water Supply Section
Jessica G. Miles, Section Chief

W-218 Sub 526A
Aqua's Sixteenth Semi-Annual Report

State of North Carolina
Michael F. Easley, Governor

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

December 29, 2006

WILLIAM E. GRANTMYRE, PRES
P.O. DRAWER 4889
CARY, NC 27519

RECEIVED JAN 04 2007

Re **Final Approval**
SUNSET HILLS WATER SYSTEM
DEH Serial #00-02873
PW SID # NC0118158
CATAWBA COUNTY

Dear Sir/Madam

The Department received an engineer's certification statement and an applicant's certification statement concerning the above referenced project. The engineer's certification verifies that the construction of the referenced project has been completed in accordance with the engineering plans and specifications approved under Department Serial Number 00-02873. The applicant's certification verifies that an Operation and Maintenance Plan and Emergency Management Plan have been completed and are accessible to the operator on duty at all times and available to the Department upon request and that the system will have a certified operator as required by 15A NCAC 18C 1300.

The Department has determined that the requirements specified in 15A NCAC 18C 0303(a) and (c) have been met and therefore issues this **Final Approval** in accordance with Rule 0309(a).

Please contact us at (919) 733-2321 if you have any questions or need additional information.

Sincerely,

Tony C. Chen, P.E.
Technical Services Branch
Public Water Supply Section

TCC SMC

cc BRIEF SETZER, REGIONAL ENGINEER
CATAWBA COUNTY HEALTH DEPARTMENT
LOWRY ENVIRONMENTAL ENGINEERING

State of North Carolina
 Department of Environment
 and Natural Resources
 Division of Environmental Health
 Public Water Supply Section

COPY



James B. Hunt Jr., Governor
 Bill Holman, Secretary
 Linda C. Sewall, Director
 Jessica G. Miles, Section Chief

January 4, 2001

OFFICIAL COPY

Mar 01 2022

WILLIAM E. GRANTMYRE, PRES
 P O Drawer 4889
 Cary, NC 27519

Re **Authorization to Construct
 SUNSET HILLS WATER SYSTEM
 SUNSET HILLS S/D
 CATAWBA County 0118158**

Dear Applicant

This letter is to confirm that a complete Engineer's Report and a Water System Management Plan have been received, and that engineering plans and specifications have been approved by the Department for **SUNSET HILLS WATER SYSTEM**, DEH Serial No 0002873

The Authorization to Construct is valid for 24 months from the date of this letter. Authorization to Construct may be extended if the Rules Governing Public Water Supplies and site conditions have not changed. The Authorization to Construct and the engineering plans and specifications approval letter, shall be posted at the primary entrance of the job site before and during construction.

Approval must be secured from the Department before any construction or installation if

- Deviation from the approved engineering plans and specifications is necessary, or
- There are changes in site conditions affecting capacity, hydraulic conditions, operating units, the function of water treatment processes, the quality of water to be delivered, or conditions imposed by the Department in any approval letters

Upon completion of the construction or modification and in accordance with Rule 0303, the applicant shall submit a certification statement signed and sealed by a registered professional engineer stating that construction was completed in accordance with approved engineering plans and specifications, including any provisions stipulated in the Department's engineering plan and specification approval letter. Prior to Final Approval, the applicant shall submit a signed certification stating that the requirements in 15A NCAC 18C 0307 (d) and (e) have been satisfied and if applicable, a completed application for an Operating Permit and fee. Once the certification statements and operating permit application and fee, if applicable, are received and determined adequate, the Department will grant Final Approval in accordance with Rule 0309 (a). Therefore, no construction, alteration, or expansion of a water system shall be placed into service until Final Approval has been issued by the Department.

If we can be of further assistance, please call (919) 733-2321

Sincerely,

Jessica G. Miles, P.E., Chief
 Public Water Supply Section

JGM RCL

cc BRITT SETZER, Regional Engineer
 Lowry Environmental Eng



**State of North Carolina
Department of Environment and Natural Resources**

**Public Water System
Authorization to Construct**

Public Water System Name and PWSID No. (if available):	SUNSET HILLS S/D 0118158
Project Name:	SUNSET HILLS WATER SYSTEM
Serial No:	0002873
Issue Date:	01/02/2001
Expiration Date:	24 months after Issue Date

In accordance with NCAC 18C 0305, this Authorization to Construct must be posted for inspection at the primary entrance of the job site during all construction



2/27/01

Mr. Wayne Munden, PE, Head
Technical Services Branch
Public Water Supply Section
NC Dept. of Env. Health & Nat. Resources
PO Box 29536
Raleigh, NC 27626-0536

RE: Final inspection
Granular Activated Carbon Water
Treatment System at Well No. 3
Heater Utilities, Sunset Hills Subdivision
Approval 00-02873
ID# 01-18-158

This is to certify that the above referenced project has been installed and is fully operational. To the best of my knowledge and belief, it was constructed in accordance with the Plans & Specifications approved by your office. There were no significant modifications made during the construction.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Jerry Lowry", written in a cursive style.

Jerry D. Lowry, PhD, PE

cc: Bob Slusser, Heater Utilities



A handwritten signature in black ink, appearing to read "Jerry Lowry", written in a cursive style. Below the signature is the date "2/27/01".

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

**DIVISION OF ENVIRONMENTAL HEALTH
PUBLIC WATER SUPPLY SECTION**

December 19, 2000



JAMES B. HURT JR.
GOVERNOR

BILL HOLMAN
SECRETARY

LINDA C. SEWALL
DIRECTOR

JESSICA G. MILES
CHIEF

Mr William E Grantmyre
Heater Utilities
Post Office Drawer 4889
Cary, North Carolina 27519

Re Granular Activated Carbon Water
Treatment System at Well No 3
Sunset Hill Subdivision
Catawba County
I D #01-18-158

Dear Mr Grantmyre

Plans and specifications prepared by Jerry D Lowry, P E , have been submitted for the approval of a chlordane removal system for the referenced well water system. These plans and specifications are receiving a limited approval under Division of Environmental Health serial number 00-02873, dated December 18, 2000.

The plans and specifications call for the installation of two Calgon F300 Granular Activated Carbon (GAC) 16-inch diameter by 65-inch vessels for chlordane absorption, valves, piping and other apparatus at Well No 3 to serve Sunset Hill Subdivision.

Please note that an "Authorization to Construct" requires both this approval of Engineering Plans and Specifications and submittal of a complete Water System Management Plan. No construction shall be undertaken, and no contract for construction, alteration, or installations shall be entered into until the Department issues an Authorization to Construct letter in accordance with 15A NCAC 18C 0305(a).

One copy of each enclosed document is being forwarded to our Mooresville Regional Office. The third copy is being retained in our permanent files.

If we can be of further service, please call on us at (919) 733-2460.

Sincerely,

J. Wayne Munden, P E , Head
Technical Services Branch
Public Water Supply Section

JWM/SMC/jhr

Enclosures

cc Britt Setzer, Regional Engineer
Catawba County Health Department
Lowry Environmental Engineering, Inc



OFFICIAL COPY

Mar 01 2022

North Carolina Department of Environment
and Natural Resources
Division of Environmental Health
Public Water Supply Section

Application for Approval
of Engineering Plans and Specification
For Water Supply Systems

Date DEC 18 2000
(For DENR use only)

Serial No 00-02873

These plans and specifications cited in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes, with the following provisions

This approval is given with the understanding that upon installation of such works, its operation shall be placed under the care of a competent person, and the operation shall be carried out according to best accepted practice and in accordance with the recommendations of the Division of Environmental Health

The official copies of plans and specifications accompanying this application have been sealed and stamped with the serial number of this application 00-02871 Only such plans and specifications are included in this approval and any erasures, additions or alterations of the proposed improvements except those permitted in T15A 18C 0306 will make such approval null and void

Signed *[Signature]*
Chief, Public Water Supply Section
Division of Environmental Health

Status of Water System Management Plan (WSMP)

Check one of the following, and if applicable, provide the required information

The WSMP for the project, as defined in the attached engineering plans and specifications, is submitted with this application

The WSMP for the project, as defined in the attached engineering plans and specifications, was previously submitted

Provide the Following

Water System Name Sunset Hills

Owner Name Heater Utilities, Inc

PWS ID No 01-18-158

WSMP No 99-02030

WSMP Title Water System Management Plan - Heater Utilities, Inc

WSMP Submittal Date November 9, 1999

County Catawba

Note Attach to this Application, a letter from the applicant stating that the previously submitted WSMP contains the information required by Rule 0307 (c) for the project defined in the attached engineering plans and specifications

The WSMP for the project, as defined in the attached engineering plans and specifications, has not been submitted

Note When the WSMP is submitted, the applicant must clearly identify the previously submitted project engineering plans and specifications for which the WSMP was prepared.

Status of Engineer's Report

Check one of the following, and if applicable, provide the required information

The Engineer's Report for the project, as defined in the attached engineering plans and specifications, is submitted with this application

The Engineer's Report for the project, as defined in the attached engineering plans and specifications, was previously submitted

Provide the Following

Water System Name Sunset Hills

Owner Name Heater Utilities Inc

PWS ID No 01-18-158

Engineer's Report No N/A

Engineer's Report Title Engineer's Report & Specifications for Modifications to the Sunset Hills Subdivision Water System

Engineer's Report Submittal Date Submitted with this application.

County Catawba

Note Attach to this Application, a letter from the engineer stating that the previously submitted Engineer's Report contains the information required by Rule 0307 (b) for the project defined in the

To Division of Environmental Health
Department of Environment and Natural Resources

The William E Grantmyre, President
(name of board, or council, authorized official and title, or owner)

of Heater Utilities, Inc.
(name of city town, corporation, sanitary district, water company or other)

in the County of Wake State of North Carolina authorized by law to act for

the said Corporation
(name of city, town, corporation, sanitary district, water company or other)

and to expend its funds for the water project described below, herewith submit for the counsel and advice of the Division of Environmental Health plans and specifications prepared by Lowry Environmental Engineering, Inc.

(engineer or firm)
of Blue Hill, ME for the installation or construction of

a GAC water treatment system at Well #3
(describe project)

Sunset Hills Water System, Catawba County, NC
(location of project)

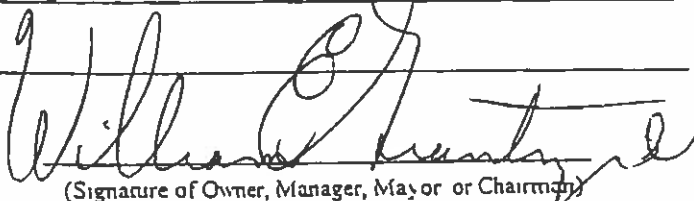
in Catawba and make application to the Division of Environmental Health for
(county)

the approval of said plans and specifications as related to public health and protection of public water supplies and public water systems

These plans have been approved and accepted by the applicant

This application is made under and in full accord with the provisions of Chapter 130A-317 of the North Carolina General Statutes, and such other statutes as related to public water systems. The applicant agrees that no change or deviation from the engineering plans and specifications approved by the Division of Environmental Health will be made except as allowed by T15A 18C 0306 or with the written consent and approval of the Division of Environmental Health or its authorized representative. The applicant agrees that a professional engineer licensed to practice in the State of North Carolina shall submit a statement reflecting that adequate observations during and upon completion of construction, by the engineer or by a representative of the engineers office who is under the engineers supervision, indicates that construction was completed in accordance with approved plans and specifications

Remarks This submittal is covered under Heater's existing WSP dated November 9, 1999,
approved under WSP No. 99-02030



(Signature of Owner, Manager, Mayor or Chairman)

William E Grantmyre, President
(Type or Print Name Signed Above)

P O. Drawer 4889
(Street or Box Number)

Cary, NC 27519
City State Zip Code

Engineer's Report & Specifications

for

Modifications

to the

**Sunset Hills Subdivision
Water System**

ID# 01-18-158

Well No 3

11/13/00

COPY

Lowry Environmental Engineering, Inc

These plans and specifications cited in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes, with the following provisions

This approval is given with the understanding that upon installation of such works, its operation shall be placed under the care of a competent person, and the operation shall be carried out according to best accepted practice and in accordance with the recommendations of the Division of Environmental Health

The official copies of plans and specifications accompanying this application have been sealed and stamped with the serial number of this application 00-02873 Only such plans and specifications are included in this approval and any erasures, additions or alterations of the proposed improvements except those permitted in T15A 18C 0306 will make such approval null and void

Signed Jessica G. Mills
Chief, Public Water Supply Section
Division of Environmental Health

Status of Water System Management Plan (WSMP)

Check one of the following, and if applicable, provide the required information

The WSMP for the project, as defined in the attached engineering plans and specifications, is submitted with this application

The WSMP for the project, as defined in the attached engineering plans and specifications, was previously submitted

Provide the Following

Water System Name Sunset HillsOwner Name Heater Utilities, IncPWS ID No 01-18-158WSMP No 99-02030WSMP Title Water System Management Plan - Heater Utilities, IncWSMP Submittal Date November 9, 1999County Catawba

Note Attach to this Application, a letter from the applicant stating that the previously submitted WSMP contains the information required by Rule 0307 (c) for the project defined in the attached engineering plans and specifications

The WSMP for the project, as defined in the attached engineering plans and specifications, has not been submitted

Note When the WSMP is submitted, the applicant must clearly identify the previously submitted project engineering plans and specifications for which the WSMP was prepared.

Status of Engineer's Report

Check one of the following, and if applicable, provide the required information

The Engineer's Report for the project, as defined in the attached engineering plans and specifications, is submitted with this application

The Engineer's Report for the project, as defined in the attached engineering plans and specifications, was previously submitted

Provide the Following

Water System Name Sunset HillsOwner Name Heater Utilities, IncPWS ID No 01-18-158Engineer's Report No N/AEngineer's Report Title Engineer's Report & Specifications for Modifications to the Sunset Hills Subdivision Water SystemEngineer's Report Submittal Date Submitted with this application.County Catawba

Note Attach to this Application, a letter from the engineer stating that the previously submitted Engineer's Report contains the information required by Rule 0307 (b) for the project defined in the attached engineering plans and specifications

To Division of Environmental Health
Department of Environment and Natural Resources

The William E Grantmyre, President
(name of board, or council, authorized official and title, or owner)

of Heater Utilities, Inc.
(name of city town, corporation, sanitary district, water company or other)

in the County of Wake State of North Carolina authorized by law to act for
the said Corporation
(name of city, town, corporation, sanitary district, water company or other)

and to expend its funds for the water project described below, herewith submit for the counsel and advice of the Division
of Environmental Health plans and specifications prepared by Lowry Environmental Engineering, Inc.

(engineer or firm)
of Blue Hill, ME for the installation or construction of

a GAC water treatment system at Well #3
(describe project)

Sunset Hills Water System, Catawba County, NC
(location of project)

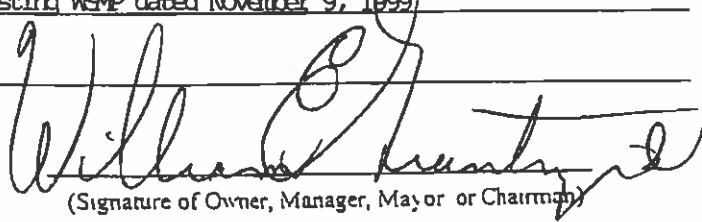
in Catawba and make application to the Division of Environmental Health for
(county)

the approval of said plans and specifications as related to public health and protection of public water supplies and
public water systems

These plans have been approved and accepted by the applicant

This application is made under and in full accord with the provisions of Chapter 130A-317 of the North Carolina General
Statutes, and such other statutes as related to public water systems. The applicant agrees that no change or deviation from
the engineering plans and specifications approved by the Division of Environmental Health will be made except as
allowed by T15A 18C 0306 or with the written consent and approval of the Division of Environmental Health or its
authorized representative. The applicant agrees that a professional engineer licensed to practice in the State of North
Carolina shall submit a statement reflecting that adequate observations during and upon completion of construction, by
the engineer or by a representative of the engineers office who is under the engineers supervision, indicates that
construction was completed in accordance with approved plans and specifications

Remarks This submittal is covered under Heater's existing WSP dated November 9, 1999
approved under WSP No. 99-02030



(Signature of Owner, Manager, Mayor or Chairman)
William E Grantmyre, President
(Type or Print Name Signed Above)

P O. Drawer 4889
(Street or Box Number)

Cary, NC 27519
City State Zip Code

OFFICIAL COPY
Mar 01 2022

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Environmental Health
Public Water Supply Section

James B Hunt, Jr., Governor
Jonathan B Howes, Secretary
Linda C Sewall, Director

W-218 Sub 526A
Aqua's Sixteenth Semi-Annual Report



May 19, 1997

Mr Thomas Carroll Weber
Mid South Water System, Inc
Post Office Box 127
Sherrills Ford, North Carolina, 28673

Re Addition of Corrosivity
Treatment Equipment
Mid-South Water System, Inc
Sunset Hills Water System
Catawba County
I D #01-18-158

Dear Mr Weber

Enclosed please find one copy of the "Application for Approval " together with one copy of the referenced plans and specifications bearing the Division of Environmental Health stamp of approval and signature of the Public Water Supply Section Chief for the referenced project These plans and specifications are approved under Division of Environmental Health serial number 97-13278, dated May 8, 1997

Plans and specifications prepared by Kim Howard Colson, P E , call for the installation of equipment for the treatment of corrosivity The pH adjustment system will include a 55 gallon holding tank, a feed pump manufactured by Chem Tech, associated piping, valves and controls to feed sodium hydroxide

Public water system rules require that a registered professional engineer verify that construction has been completed in accordance with these approved plans and specifications In order to complete the approval of this project, please furnish us a copy of the engineer's verification affixed with his/her professional engineering seal immediately upon completion of construction Customer connections shall not be made until the construction verification letter is received by this office

One copy of each enclosed document is being forwarded to our Mooresville Regional Office The third copy is being retained in our permanent files

If we can be of further service, please call on us at (919) 733-2460

Sincerely,

Mark Magar
for J Wayne Munden, P E , Head
Technical Services Branch
Public Water Supply Section

JWM/MTM/snc

Enclosures Approval Documents

cc E D Herndon, Regional Engineer
Catawba County Health Department
Utilities Commission-Water Division

To The North Carolina State Board of Health:

The H.C. Huffman, Owner
(Insert the title of body or official making application)

of Sunset Hills Water Supply
(Insert name of city town, corporation, or sanitary district)

in the County of Catawba State of North Carolina

authorized by law to act for the said Sunset Hills Water Supply
(Insert city, town, corporation, or sanitary district)

and to expend its funds for water works or sewerage systems, herewith submit for the counsel and
advice of the State Board of Health plans and specifications prepared by _____
(Engineer of firm)

_____ of _____

for the installation of Water Supply System (Existing)
(New system, alteration or extension)

in said city, town, corporation, or sanitary district of Sunset Hills

and herewith make application to the State Board of Health for the approval of such feature of said
plans and specifications as relate to public health and the protection of public water supplies.

These plans have been approved and accepted by H.C. Huffman
(Board, council, or directors)

and a certification of acceptance is made herewith.

This application is made under and in full accord with the provisions of Chapter 130, Article 13, and
130-162 of the North Carolina General Statutes, and such other statutes as relate to water works and
sewerage systems. The applicants agree that in so far as the aforesaid public health features of the
proposed improvements provided for in the said plans and specifications are concerned, no changes in
or deviation from the plans and specifications approved by the State Board of Health will be made
except with the consent and approval of the State Board of Health.

Remarks: _____

Signatures

H.C. Huffman
Water Systems
Rt. # 2 Box 740
Hickory, N.C.

H.C. Huffman
Owner ~~XXXXXXXXXXXXXXXXXXXX~~

Clerk

These plans for the proposed municipal or sanitary district improvements cited in the foregoing applications are hereby approved in so far as the protection of public health and public water supplies is concerned under authority of Chapter 130, Article 13, of the General Statutes, with the following provisos:

An additional well with appurtenances shall be constructed when 60 users are being served.

This approval is given with the understanding that upon the installation of such works, its operation shall be placed under the care of a competent person, and the operation shall be carried out according to best accepted practice and in accordance with the recommendations of the State Board of Health.

The official copies of plans and specifications accompanying this application have been sealed and stamped with the serial number of this application, 5200 Only such plans and specifications are included in this approval and any erasures, additions or alterations affecting the efficiency of operation or public health protective value of the proposed improvements will make such approval null and void.

Signed  -----
J. M. Jarrett

Title: *Director, Sanitary Engineering Division*

REGIONAL HEALTH COUNCIL OF EASTERN APPALACHIA
201 SOUTH GREEN STREET
MORGANTON, NORTH CAROLINA 28655
704-433-1636

Executive Committee
H EDWIN BEAN M.D.
JOHN A BLEYMAT
GLENN P DEAL D.V.M.
J DON HUGHES M.D.
PAUL D HUGHES
J T McRAE M.D.
WILLIAM J MILLER
F J RAGAZ M.D.
JOHN C RAZEE M.D.
HAROLD F STANLEY
CARL D TUTTLE

June 15, 1971

RECEIVED
C.T.C.
Jul 17 1971

Mr. C. T. Clayton
Sanitary Engineering Technician
North Carolina State Board of Health
Western Regional Office
Biltmore Plaza Office Building
Asheville, North Carolina 28801

Dear Mr. Clayton:

On June 11, 1971 in the company of Mr. Olin Setzer, Sanitarian with the Alexander, Catawba, Lincoln District Health Department, and Mr. Huffman of Huffman Drillers, Inc., I made on-site visits to Sunset Hills-Fairview Park and Spencer Road Park Subdivisions for the purpose of locating well sites.

It is my opinion that the sites selected (see attachments) can be properly protected from a sanitary standpoint and I recommend their approval.

If we may be of further assistance, please call upon us.

Very truly yours,

H. Wayne Hyatt

H. Wayne Hyatt
Sanitary Engineering Technician

HWH/krc

Attachments

cc: Mr. W. J. Stevenson
Mr. T. G. Croom

OFFICIAL COPY

Mar 01 2022

March 26, 1964

Mr. R.F. Hill
Regional Engineer
McIntyre Building
Asheville, N.C.

Dear Mr. Hill,

Following is data on Sunset Hills Wells for your approval.
Map of same attached.

1. Sunset Hills Wells

- A. Well No. 1 6" in diameter, 240 ft. in depth.
Well No. 2 6" in diameter, 245 ft. in depth.
- B. Well No. 1 Capacity is 45 GPM
Well No. 2 Capacity is 20 GPM
- C. Well No. 1 -- 7 1/2 H.P. Reda Sub. pump, capacity 40 GPM
Well No. 2 2 H.P. Aeromotor Sub. pump, Capacity 17 GPM
- D. Well No. 1 - 2,000 gal. storage tank
Well No. 2 - 525 gal. storage tank
- E. Well No. 1 - 6 x 6' Brick pump house w/concrete floor
Well No. 2 - 6 x 6' Brick pump house w/concrete floor
- F. Distributive Mains - 8,200 ft. 2" Galv. pipe
- G. Taps - 2,920 Ft. 1" Galv. pipe
350 Ft. 3/4" Galv. pipe
- H. 11 - 2" Gate Valves, located on map
- I. Pressure to be maintained, 40-60 lbs.
- J. Metered system

Respectively Submitted,

H.C. Huffman
Water Systems

APPENDIX C

SUNSET HILLS

C. ORIGINAL INORGANIC ANALYSIS FOR EACH WELL SUBMITTED TO DEH FOR WELL APPROVAL

CC, Wade Knox

CC, Carroll Williams
10/29/81

STATE LABORATORY OF PUBLIC HEALTH
DIVISION OF HEALTH SERVICES
N C DEPARTMENT OF HUMAN RESOURCES
P O BOX 28047 - 306 N WILMINGTON ST, RALEIGH 27611

OFFICIAL COPY

Mar 01 2022

INORGANIC CHEMICAL ANALYSES-PRIVATE WATER SYSTEM

Complete All Items Above Heavy Line
(See Instructions on Reverse Side)

Name of System: H.C. Huffman Water System

Address: Sunset Hills #1 Pt 10 Box 924 Hwy. NC ZIP 28601

County: Calawaba

Report To: H.C. Huffman

Address: CC, Wade Knox - Western Reg. Office Pt 10, Box 924 Hickory, NC ZIP 28601

Collected By: H.C. Huffman

Date Collected: 9/4/81 Time: 10:00 AM PM

Location of Sampling Point: well head

Source of Water: Ground Both Surface Purchased

Source of Sample: House Tap Well Tap

Type of Sample: Raw Treated

Type of Treatment: None Lime Chlorinated Soda Ash Fluoridated Polyphosphate Filtered Water Softener Alum Other

Type of Analysis Desired: Regular Parameters Both Optional Parameters

Remarks

Regular Parameters			Optional Parameters (List as needed)	
	Results	units		Results
pH	6.8			
Arsenic	<0.01	mg/l		
Lead	<0.03	mg/l		
Iron	<0.05	mg/l		
Manganese	0.03	mg/l		
Copper	<0.05	mg/l		
Zinc	<0.05	mg/l		
Calcium	15.2	mg/l		
Magnesium	1.7	mg/l		
Hardness CaCO ₃ (Ca, Mg)	49	mg/l		
Alkalinity CaCO ₃	46	mg/l		
Chloride	2	mg/l		
Color	0	units		
Turbidity	0.10	NTU units		
Fluoride	0.19	mg/l		

Date Received: SEP 8 1981 Date Reported: 9/10/81 Reported By: J. L. 42.

Date Analyzed: _____ Laboratory Number: _____



**environmental
testing inc.**

W-218 Sub 526A
 Aqua's Sixteenth Semi-Annual Report
**ANALYSIS FOR NATIONAL INTERIM PRIMARY
 DRINKING WATER REGULATIONS**

OFFICIAL COPY
Mar 01 2022

TO: H. C. Huffman Water Systems, Inc. Rt. 10, Box 924 Hickory, N. C. 28601				Report # 1149 Received: 6/12/79 Reported: 6/22/79 Sampled by: Huffman Date: 6/11/79 Time: 1000			
IDENTIFICATION: Sample Location: Sunset Hills							
INORGANIC — µg/l							
CONTAMINANT	STORET #	MCL*	FOUND	CONTAMINANT	STORET #	MCL*	FOUND
Arsenic, As	01002	50	<u>< 5</u>	Lead, Pb	01051	50	<u>< 5</u>
Barium, Ba	01007	1,000	<u>41</u>	Mercury, Hg	71800	1	<u>< 0.5</u>
Cadmium, Cd	01027	10	<u>< 3</u>	Nitrate, NO ₃ -N, mg/l	00620	10	<u>1.860</u>
Chromium, Cr	01034	50	<u>< 5</u>	Selenium, Se	01147	10	<u>< 5</u>
Fluoride, F - mg/l	00951	1.4 2.4	<u>0.237</u>	Silver, Ag	01077	50	<u>< 5</u>
ORGANIC — µg/l							
Endrin	39390	0.2	_____	Toxaphene	39400	5	_____
Lindane	39782	4	_____	2, 4-D	39730	100	_____
Methoxychlor	39480	100	_____	2, 4, 5-TP (Silvex)	39780	10	_____
RADIONUCLIDES — pCi/l							
Gross Alpha	01501	15	_____	Gross Beta	03501	50	_____
Counting Error	01502		_____	Counting Error	03502		_____
Radium-226	09501	}	_____	Tritium	07000	20,000	_____
Counting Error	09502		_____	Counting Error	07001		_____
Radium-228	11501		_____	Strontium-90	13501	5	_____
Counting Error	11502		_____	Counting Error	13502		_____
*-Most MCL (Maximum Contaminant Level) values have been converted from mg/l to µg/l in order to be in the proper units for their storet numbers. To convert from µg/l to mg/l, move the decimal three spaces to the left (50 µg/l = 0.050 mg/l)							
This water sample (<input checked="" type="checkbox"/> does) (<input type="checkbox"/> does not) meet the Proposed National Interim Primary Drinking Water Standards.				Respectfully submitted,			
Methods & Limits in accordance with Federal Register — Vol 40, No 248, Part IV Wednesday, December 24, 1975 — and, Federal Register — Vol 41, No 133, Part II Friday, July 9, 1976 —				 Paul R. Jenkins, Jr.			

Environment 1, Incorporated

OFFICIAL COPY

P O BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C 27835-7085.

PHONE (252) 756-6208
FAX (252) 756-0633

PESTICIDES & SYNTHETIC ORGANICS (SOC's)

9585

LABORATORY ID#: 37715
WATER SYSTEM ID#: 01-18-158 COUNTY: CATAWBA
NAME OF SYSTEM: SUNSET HILLS (HEATER WEST)
SAMPLE TYPE: (E) (E=Entry Point; S=Special; W=Source; D=Distribution)
COLLECTED ON: 02/21/01 (MM/DD/YY) TIME: 09:50 AM (HH:MM AM or PM)
LOCATION WHERE COLLECTED: WELL #3-SECOND ST. NW-SR 1336
LOCATION/SOURCE CODE: E03 COLLECTED BY: JAMBY BROWN

MAIL RESULTS TO:

SUNSET HILLS (HEATER WEST)
MARY ARMENTROUT
P.O. BOX 859
DENVER, NC 28037

TYPE OF SYSTEM
(X) COMMUNITY () NTNC
() NON-COMMUNITY () PRIVATE
() ADJACENT () CAMPGROUND

WATER SOURCE(S)
(X) GROUND
() SURFACE
() PURCHASED

TELEPHONE: (704) 489-9404

CONTAM CODE	CONTAMINATE, mg/l	METHOD CODE	DETECTION LIMITS	NOT DETECTED (X)	QUANTIFIED RESULTS	ALLOW. LIMITS	REGULATED (R,U)
2005	Endrin	204	0 00001	X		0 002	R
2010	Lindane	204	0 00002	X		0 0002	R
2015	Methoxychlor	204	0 0001	X		0 04	R
2020	Toxaphene	204	0 001	X		0 003	R
2021	Carbaryl	235	0 00073			N/A	U
2022	Methomyl	235	0 00016			N/A	U
2031	Dalapon	203	0 001			0 2	R
2035	Di-2(ethylhexyl)adipate	206	0 0006			0 4	R
2036	Oxamyl (Vydate)	235	0 002			0 2	R
2037	Sumazine	207	0 00007			0 004	R
2040	Picloram	203	0 0001			0 5	R
2041	Dimoseb	203	0 0002			0 007	R
2042	Hexachlorocyclopentadiene	204	0 0001	X		0 05	R
2043	Aldicarb Sulfoxide	235	0 0005			N/A	U
2044	Aldicarb Sulfone	235	0 0008			N/A	U
2045	Metolachlor	207	0 00036			N/A	U
2046	Carbofuran	235	0 0009			0 04	R
2047	Aldicarb	235	0 0005			N/A	U
2050	Atrazine	207	0 0001			0 003	R
2051	Alachlor	204	0 0002	X		0 002	R
2065	Heptachlor	204	0 00004	X		0 0004	R
2066	3-Hydroxycarbofuran	235	0 00063			N/A	U
2067	Heptachlor Epoxide	204	0 00002	X		0 0002	R
2070	Dieldrin	204	0 000008	X		N/A	U
2076	Butachlor	207	0 0037			N/A	U
2077	Propachlor	207	0 0027			N/A	U
2105	2,4-D	203	0 0001			0 07	R
2110	2,4,5-TP (Silvex)	203	0 0002			0 05	R
2274	Hexachlorobenzene	204	0.0001	X		0 001	R
2298	Di-2(ethylhexyl)phthalate	206	0 00132			0 006	R
2306	Benzo(a)pyrene	251	0 00002			0 0002	R

Continued on Page 2....

Mar 01 2022

Environment 1, Incorporated

PO BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N C 27835-7085

PHONE: (252) 756-6208
FAX: (252) 756-0633

PESTICIDES & SYNTHETIC ORGANICS (continued)
(SOC'S)

9585

LABORATORY ID#: 37715

WATER SYSTEM ID#: 01-18-158

COLLECTION DATE: 02/21/01

LOCATION/SOURCE CODE: E03

CONTAM CODE	CONTAMINATE, mg/l	METHOD CODE	DETECTION LIMITS	NOT DETECTED (X)	QUANTIFIED RESULTS	ALLOW. LIMITS	REGULATED (R, U)
2326	Pentachlorophenol	203	0 00004			0 001	R
2356	Aldrin	204	0 00002	X		N/A	U
2383	PCB's	204	0 0001	X		0 0005	R
2440	Dicamba	203	0 0003			N/A	U
2595	Metribuzin	207	0 00039			N/A	U
2931	DBCP	219	0 00002			0 0002	R
2946	Ethylene Dibromide(EDB)	219	0 00001			0 00005	R
2959	Chlordane	204	0 0002	X		0 002	R

() SAMPLE UNSATISFACTORY

() RESAMPLE REQUESTED

Date Analyses Begun: 02/26/01

Time Analyses Begun: 3:00 PM

Date Analyses Completed: 03/01/01

Time Analyses Completed: 4:00 PM

Laboratory Log # 9585-022101-E03

Certified By: SEJ

Comments:

Environment 1, Incorporated

Bob

PO BOX 7085, 114 OAKMONT DRIVE
 GREENVILLE, N C 27835-7085

PHONE (252) 756-8208
 FAX (252) 756-0633

PESTICIDES & SYNTHETIC ORGANICS
 (SOC'S)

9585

LABORATORY ID#: 37715
 WATER SYSTEM ID#: 01-18-158 COUNTY: CATANBA
 NAME OF SYSTEM: SUNSET HILLS (HEATER WEST)
 SAMPLE TYPE: (E) (E=Entry Point; S=Special; W=Source; D=Distribution)
 COLLECTED ON: 10/10/00 (MM/DD/YY) TIME: 01:30 PM (HH:MM AM or PM)
 LOCATION WHERE COLLECTED: WELL #3, 2ND ST. NW
 LOCATION/SOURCE CODE: E03 COLLECTED BY: JAMEY BROWN

MAIL RESULTS TO:

SUNSET HILLS (HEATER WEST)
 LEIGH ANN WELBORN
 P.O. BOX 859
 DENVER, NC 28037

TYPE OF SYSTEM
 COMMUNITY NTNC
 NON-COMMUNITY PRIVATE
 ADJACENT CAMPGROUND

WATER SOURCE(S)
 GROUND
 SURFACE
 PURCHASED

TELEPHONE. (704) 489-9404

CONAM CODE	CONCENTRATE, mg/L	METHOD CODE	DETECTION LIMITS	NOT DETECTED (X)	QUANTIFIED RESULTS	ALLOW. LIMITS	REGULATED (R, U)
2005	Endrin	204	0.00001	X		0.002	R
2010	Lindane	204	0.00002	X		0.0002	R
2015	Methoxychlor	204	0.0001	X		0.04	R
2020	Toxaphene	204	0.001	X		0.003	R
2021	Carbaryl	235	0.00073			N/A	U
2022	Methomyl	235	0.00016			N/A	U
2031	Dalapon	203	0.001			0.2	R
2035	D-2(ethylhexyl)adipate	206	0.0006			0.4	R
2036	Oxamyl (Vydate)	235	0.002			0.2	R
2037	Simazine	207	0.00007			0.004	R
2040	Picloram	203	0.0001			0.5	R
2041	Dinoseb	203	0.0002			0.007	R
2042	Hexachlorocyclopentadiene	204	0.0001	X		0.05	R
2043	Aldicarb Sulfonate	235	0.0005			N/A	U
2044	Aldicarb Sulfone	235	0.0008			N/A	U
2045	Metolachlor	207	0.00036			N/A	U
2046	Carbofuran	235	0.0009			0.04	R
2047	Aldicarb	235	0.0005			N/A	U
2050	Atrazine	207	0.0001			0.003	R
2051	Alachlor	204	0.0002	X		0.002	R
2065	Heptachlor	204	0.00004	X		0.0004	R
2066	3-Hydroxycarbofuran	235	0.00063			N/A	U
2067	Heptachlor Epoxide	204	0.00002	X		0.0002	R
2070	Dieldrin	204	0.000008		0.000007	N/A	U
2076	Bentachlor	207	0.0037			N/A	U
2077	Propachlor	207	0.0027			N/A	U
2105	2,4-D	203	0.0001			0.07	R
2110	2,4,5-TP (Silvex)	203	0.0002			0.05	R
2274	Heptachlorobenzene	204	0.0001	X		0.001	R
2298	D-2(ethylhexyl)phthalate	206	0.00132			0.006	R
2306	Benzo(a)pyrene	251	0.00002			0.0002	R

Continued on Page 2....

Environment 1, Incorporated

PO BOX 7085, 114 OAKMONT DRIVE
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 FAX (252) 758-0833

PESTICIDES & SYNTHETIC ORGANICS (continued)
 (SOC's)

9585

LABORATORY ID#: 37715

WATER SYSTEM ID#: 01-18-158

COLLECTION DATE: 07/12/00

LOCATION/SOURCE CODE: E03

CONTRM CODE	CONTAMINANT, mg/l	METHOD CODE	DETECTION LIMITS	NOT DETECTED (X)	QUANTIFIED RESULTS	ALLOW. LIMITS	REGULATED (R, D)
2326	Pentachlorophenol	203	0.00004			0.001	R
2356	Aldrin	204	0.00002	X		N/A	U
2383	PCB's	204	0.0001	X		0.0005	R
2440	Dicamba	203	0.0003			N/A	U
2595	Metribuzin	207	0.00039			N/A	U
2931	DBCP	219	0.00002			0.0002	R
2946	Ethylene Dibromide (EDB)	219	0.00001			0.00005	R
2959	Chlordane	204	0.0002		0.0023	0.002	R

SAMPLE UNSATISFACTORY

RESAMPLE REQUESTED

Date Analyses Begun: 07/19/00
 Date Analyses Completed: 07/18/00

Time Analyses Begun: 9:00 AM
 Time Analyses Completed: 4:00 PM

Laboratory Log # 9585-071200-E03

Certified By: SBJ

Comments:

Environment 1, Incorporated

Special Sample

P.O. BOX 7085, 114 OAKMONT DRIVE
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PHONE (252) 788-6208
FAX (252) 788-0639

PESTICIDES & SYNTHETIC ORGANICS (SOC'S)

9585

LABORATORY ID#: 37715
 WATER SYSTEM ID#: 01-18-158 COUNTY: CATAWBA
 NAME OF SYSTEM: SUNSET HILLS (HEATER WEST)
 SAMPLE TYPE: (S) (E=Entry Point; S=Special; W=Source; D=Distribution)
 COLLECTED ON: 06/29/00 (MM/DD/YY) TIME: 01:15 PM (HH:MM AM or PM)
 LOCATION WHERE COLLECTED: WELL #3 (2nd ST. NW)
 LOCATION/SOURCE CODE: E03 COLLECTED BY: JAMEY BROWN

MAIL RESULTS TO:

SUNSET HILLS (HEATER WEST)
 LEIGH ANN WELBORN
 P.O. BOX 859
 DENVER, NC 28037

TYPE OF SYSTEM
 (X) COMMUNITY () MTRC
 () NON-COMMUNITY () PRIVATE
 () ADJACENT () CAMPGROUND

WATER SOURCE(S)
 (X) GROUND
 () SURFACE
 () PURCHASED

TELEPHONE: (704) 489-9404

CONFRM CODE	CONSTITUENT, mg/l	METHOD CODE	DESCRIPTION LIMITS	NOT DETECTED (X)	QUALIFIED RESULTS	ALLOW. LIMITS	REGULATED (R, U)
2005	Endrin	204	0.00001	X		0.002	R
2010	Lindane	204	0.00002	X		0.0002	R
2015	Methoxychlor	204	0.0001	X		0.04	R
2020	Toxaphene	204	0.001	X		0.003	R
2021	Carbaryl	235	0.00073			N/A	U
2022	Methomyl	235	0.00016			N/A	U
2031	Dalapon	203	0.001			0.2	R
2035	Di-2(ethylhexyl)adipate	206	0.0006			0.4	R
2036	Oxamyl (Vydate)	235	0.002			0.2	R
2037	Simeadine	207	0.00007			0.004	R
2040	Proloram	203	0.0001			0.5	R
2041	Dinoseb	203	0.0002			0.007	R
2042	Hexachlorocyclopentadiene	204	0.0001	X		0.05	R
2043	Aldicarb Sulfoxide	235	0.0005			N/A	U
2044	Aldicarb Sulfone	235	0.0008			N/A	U
2045	Metolachlor	207	0.00036			N/A	U
2046	Carbofuran	235	0.0009			0.04	R
2047	Aldicarb	235	0.0005			N/A	U
2050	Atrazine	207	0.0001			0.003	R
2051	Alachlor	204	0.0002	X		0.002	R
2065	Heptachlor	204	0.00004	X		0.0004	R
2066	3-Hydroxycarbofuran	235	0.00063			N/A	U
2067	Heptachlor Epoxide	204	0.00002	X		0.0002	R
2070	Dieldrin	204	0.000008	X		N/A	U
2076	Butachlor	207	0.0037			N/A	U
2077	Propachlor	207	0.0027			N/A	U
2105	2,4-D	203	0.0001			0.07	R
2110	2,4,5-TP (Silvex)	203	0.0002			0.05	R
2274	Hexachlorobenzene	204	0.0001	X		0.001	R
2298	Di-2(ethylhexyl)phthalate	206	0.00132			0.006	R
2306	Benzo(a)pyrene	251	0.00002			0.0002	R

Environment 1, Incorporated

PO BOX 7085, 114 OAKMONT DRIVE
 GREENVILLE, N C. 27835-7085

PHONE (252) 758-8208
 FAX (252) 756-0633

PESTICIDES & SYNTHETIC ORGANICS (continued)
 (SOC'#)

9585

LABORATORY ID#: 37715

WATER SYSTEM ID#: 01-18-158

COLLECTION DATE: 06/29/00

LOCATION/SOURCE CODE: E03

CONTEM CODE	CONSTITUENT, mg/L	METHOD CODE	DETECTION LIMITS	NOT DETECTED (X)	QUANTIFIED RESULTS	ALLOW. LIMITS	REGULATED (R, U)
2326	Pentachlorophenol	203	0.00004			0.001	R
2356	Aldrin	204	0.00002	X		N/A	U
2383	PCB's	204	0.0001	X		0.0005	R
2440	Dacamba	203	0.0003			N/A	U
2595	Metrabuzin	207	0.00039			N/A	U
2931	DECP	219	0.00002			0.0002	R
2946	Ethylene Dibromide(EDB)	219	0.00001			0.00005	R
2959	Chlordane	204	0.0002		0.00093	0.002	R

() SAMPLE UNSATISFACTORY

() RESAMPLE REQUESTED

Date Analyses Begun: 07/06/00
 Date Analyses Completed: 07/11/00

Time Analyses Begun: 9:00 AM
 Time Analyses Completed: 4:00 PM

Laboratory Log # 9585-062900-E03

Certified By: SEJ

Comments:

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0833

**PESTICIDES & SYNTHETIC ORGANICS
(SOC's)**

9585

LABORATORY ID#: 37715

WATER SYSTEM ID#: 01-18-158

COUNTY: CATANBA

NAME OF SYSTEM: SUNSET HILLS

(HEATER WEST)

SAMPLE TYPE: (E) (E=Entry Point, S=Special, W=Source, D=Distribution)

COLLECTED ON: 04/21/00 (MM/DD/YY)

TIME: 01:00 PM (HH:MM AM or PM)

LOCATION WHERE COLLECTED: WELL #3 (E03)

LOCATION/SOURCE CODE: E03

COLLECTED BY: JANEX BROWN

MAIL RESULTS TO:

SUNSET HILLS (HEATER WEST)
LEIGH ANN WELBORN
P.O. BOX 859
DENVER, NC 28037

TYPE OF SYSTEM

(X) COMMUNITY () NTMC
() NON-COMMUNITY () PRIVATE
() ADJACENT () CAMPGROUND

WATER SOURCE(S)

(X) GROUND
() SURFACE
() PURCHASED

TELEPHONE: (704) 489-9404

CONFIN CODE	CONTAMINANT, mg/l	METHOD CODE	DETECTION LIMITS	NOT DETECTED (X)	QUANTIFIED RESULTS	ALLOW. LIMITS	REGULATED (R,U)
2005	Endrin	204	0.00001	X		0.002	R
2010	Lindane	204	0.00002	X		0.0002	R
2015	Methoxychlor	204	0.0001	X		0.04	R
2020	Toxaphene	204	0.001	X		0.003	R
2021	Carbaryl	235	0.00073	X		N/A	U
2022	Methomyl	235	0.00016	X		N/A	U
2031	Dalapon	203	0.001	X		0.2	R
2035	Di-2(ethylhexyl)adipate	206	0.0006	X		0.4	R
2036	Oxamyl (Vydate)	235	0.002	X		0.2	R
2037	Simazine	207	0.00007	X		0.004	R
2040	Picloram	203	0.0001	X		0.5	R
2041	Dunoseb	203	0.0002	X		0.007	R
2042	Hexachlorocyclopentadiene	204	0.0001	X		0.05	R
2043	Aldicarb Sulfonate	235	0.0005	X		N/A	U
2044	Aldicarb Sulfone	235	0.0008	X		N/A	U
2045	Metolachlor	207	0.00036	X		N/A	U
2046	Carbofuran	235	0.0009	X		0.04	R
2047	Aldicarb	235	0.0005	X		N/A	U
2050	Atrazine	207	0.0001	X		0.003	R
2051	Alachlor	204	0.0002	X		0.002	R
2065	Heptachlor	204	0.00004	X		0.0004	R
2066	3-Hydroxycarbofuran	235	0.00063	X		N/A	U
2067	Heptachlor Epoxide	204	0.00002	X		0.0002	R
2070	Dieldrin	204	0.000008	X		N/A	U
2076	Butachlor	207	0.0037	X		N/A	U
2077	Propachlor	207	0.0027	X		N/A	U
2105	2,4-D	203	0.0001	X		0.07	R
2110	2,4,5-TP (Silvex)	203	0.0002	X		0.05	R
2274	Hexachlorobenzene	204	0.0001	X		0.001	R
2298	Di-2(ethylhexyl)phthalate	206	0.00132	X		0.006	R
2306	Benzo(a)pyrene	251	0.00002	X		0.0002	R

Continued on Page 2.....

Environment 1, Incorporated

PO BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27836-7085

PHONE (252) 756-6208
FAX (252) 756-0933

PESTICIDES & SYNTHETIC ORGANICS (continued)
(SOC's)

9585

LABORATORY ID#: 37715

WATER SYSTEM ID#: 01-18-158

COLLECTION DATE: 04/21/00

LOCATION/SOURCE CODE: H03

CONTEM CODE	CONTAMINANT, mg/l	METHOD CODE	DETECTION LIMITS	NOT DETECTED (X)	QUANTIFIED RESULTS	ALLOW. LIMITS	REGULATED (R, U)
2326	Pentachlorophenol	203	0.00004	X		0.001	R
2356	Aldrin	204	0.00002	X		N/A	U
2383	PCB's	204	0.0001	X		0.0005	R
2440	Dicamba	203	0.0003	X		N/A	U
2595	Metribuzin	207	0.00039	X		N/A	U
2931	DBCP	219	0.00002	X		0.0002	R
2946	Ethylene Dichloride(EDC)	219	0.00001	X		0.00005	R
2959	Chlordane	204	0.0002		0.0054	0.002,	R

() SAMPLE UNSATISFACTORY

() RESAMPLE REQUESTED

Date Analyses Begun: 04/27/00

Time Analyses Begun: 9:00 AM

Date Analyses Completed: 05/26/00

Time Analyses Completed: 4:00 PM

Laboratory Log # 9585-042100-H03

Certified By: SEJ

Comments:

APPENDIX C

SUNSET HILLS

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

**SUNSET HILLS IS NOT AN ACTIVE PUBLIC WATER SUPPLY
DUE TO THE LIMITED NUMBER OF CONNECTIONS AND IS
NOT REQUIRED TO PERFORM COMPLIANCE IOC
MONITORING. AQUA PERFORMS ACUTE – NITRATE,
BACTERIOLOGICAL, AND ARSENIC – MONITORING ONLY.**

APPENDIX C

SUNSET HILLS

**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 C

SUNSET HILLS

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

PUMP STATUS REPORT FORM

WATER SYSTEM NAME: Sunset Hills NID
 PWS ID #: NC 99-18-158
 WELL NO: Well-3
 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)
1/7/2020	7	10590000	10200	12967	4	1457	507462	555	79.29	0.42	0.56	43.59	79.29			
1/14/2020	7	10598800	8800	12971	4	1257	507953	491	70.14	0.43	0.50	41.90	70.14			
1/21/2020	7	10608700	9900	12975	4	1414	508479	526	75.14	0.44	0.56	42.31	75.14			
1/31/2020	10	10621600	12900	12980	5	1290	509197	718	71.80	0.42	0.50	43.00	71.80			
2/4/2020	4	10627100	5500	12982	2	1375	509495	298	74.50	0.42	0.53	43.65	74.50			
2/11/2020	7	10640900	13800	12987	5	1971	510273	778	111.14	0.38	0.70	46.94	111.14			
2/19/2020	8	10651200	10300	12990	4	1288	510866	593	74.13	0.38	0.48	45.18	74.13			
2/25/2020	6	10662700	11500	12994	4	1917	511467	601	100.17	0.39	0.65	49.15	100.17			
3/3/2020	7	10676100	13400	12999	5	1914	512085	618	88.29	0.47	0.69	46.53	88.29			
3/9/2020	6	10685500	9400	13002	3	1567	512558	473	78.83	0.42	0.55	47.47	78.83			
3/16/2020	7	10693800	8300	13005	3	1186	513012	454	64.86	0.40	0.43	46.11	64.86			
3/24/2020	8	10704400	10600	13009	4	1325	513617	605	75.63	0.37	0.46	47.75	75.63			
3/31/2020	7	10708500	4100	13011	1	586	513861	244	34.86	0.34	0.20	48.81	34.86			
4/7/2020	7	10708500	0	13011	0	0	513862	1	0.14	6.00	0.01	0.00	0.14			
4/14/2020	7	10708500	0	13011	0	0	513862	0	0.00	0.00	0.00	#Error	0.00			
4/21/2020	7	10708500	0	13011	0	0	513862	0	0.00	(6.00)	(0.01)	0.00	0.00			

PUMP STATUS REPORT FORM

4/29/2020	8	10708500	0	13011	0	0	513862	0	0.00	0.00	0.00	#Error	0.00			
5/5/2020	6	10708500	0	13011	0	0	513862	0	0.00	0.00	0.00	#Error	0.00			
5/12/2020	7	10708500	0	13011	0	0	513862	0	0.00	0.00	0.00	#Error	0.00			
5/20/2020	8	10708500	0	13011	0	0	513862	0	0.00	0.00	0.00	#Error	0.00			
5/27/2020	7	10708500	0	13011	0	0	513862	0	0.00	0.00	0.00	#Error	0.00			
6/2/2020	6	10708500	0	13011	0	0	513862	0	0.00	0.00	0.00	#Error	0.00			
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6/16/2020	4	5460	1456	13011	0	364	513862	0	0.00	0.00	0.00	#Error	0.00			
6/23/2020	7	14780	9320	13026	10	1331	514200	166	23.71	3.43	1.36	16.35	23.71			
6/30/2020	7	25100	10320	13036	11	1474	514380	180	25.71	3.53	1.51	16.23	25.71			
7/7/2020	7	33800	8700	13045	9	1243	514532	152	21.71	3.55	1.29	16.11	21.71			
7/14/2020	7	41710	7910	13054	8	1130	514674	142	20.29	3.42	1.16	16.28	20.29			
7/21/2020	7	49500	7790	13061	8	1113	514814	140	20.00	3.39	1.13	16.43	20.00			
7/27/2020	6	56130	6630	13068	7	1105	514933	119	19.83	3.43	1.13	16.25	19.83			
8/4/2020	8	64600	8470	13077	9	1059	515086	153	19.13	3.37	1.08	16.41	19.13			
8/11/2020	7	72200	7600	13085	8	1086	515225	139	19.86	3.32	1.10	16.45	19.86			
8/18/2020	7	79910	7710	13092	8	1101	515364	139	19.86	3.41	1.13	16.27	19.86			
8/25/2020	7	87690	7780	13100	8	1111	515504	140	20.00	3.39	1.13	16.41	20.00			
9/1/2020	7	94890	7200	13108	7	1029	515636	132	18.86	3.32	1.04	16.44	18.86			
9/9/2020	8	102980	8090	13116	8	1011	515785	149	18.63	3.30	1.03	16.44	18.63			
9/15/2020	6	110440	7460	13123	8	1243	515922	137	22.83	3.33	1.27	16.36	22.83			
9/22/2020	7	118400	7960	13127	4	1137	515987	65	9.29	3.51	0.54	34.91	9.29			
9/29/2020	7	126550	8150	13127	0	1164	515987	0	0.00	0.00	0.00	#Error	0.00			
10/6/2020	7	134780	8230	13127	0	1176	515987	0	0.00	0.00	0.00	#Error	0.00			
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10/21/2020	8	151970	9630	13127	0	1204	515987	0	0.00	0.00	0.00	#Error	0.00			
10/27/2020	6	158310	6340	6	6	1057	516098	111	18.50	3.46	1.07	16.51	18.50			

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11/3/2020	7	165220	6910	13	7	987	516221	123	17.57	3.41	1.00	16.45	17.57		
11/10/2020	7	173240	8020	22	8	1146	516365	144	20.57	3.38	1.16	16.50	20.57		
11/17/2020	7	180870	7630	29	8	1090	516502	137	19.57	3.37	1.10	16.52	19.57		
11/24/2020	7	190030	9160	38	9	1309	516668	166	23.71	3.33	1.31	16.59	23.71		
12/1/2020	7	199380	9350	48	10	1336	516834	166	23.71	3.43	1.36	16.40	23.71		
12/8/2020	7	207990	8610	57	9	1230	516989	155	22.14	3.33	1.23	16.69	22.14		
12/15/2020	7	216400	8410	65	8	1201	517144	155	22.14	3.25	1.20	16.69	22.14		
12/22/2020	7	225400	9000	74	9	1286	517310	166	23.71	3.25	1.29	16.67	23.71		
12/29/2020	7	234900	9500	84	10	1357	517484	174	24.86	3.31	1.37	16.49	24.86		
1/5/2021	7	249350	14450	98	14	2064	517744	260	37.14	3.30	2.04	16.84	37.14		
1/12/2021	7	265030	15680	113	16	2240	518030	286	40.86	3.25	2.21	16.86	40.86		
1/19/2021	7	281600	16570	130	17	2367	518329	299	42.71	3.31	2.36	16.74	42.71		
1/26/2021	7	299700	18100	148	18	2586	518648	319	45.57	3.35	2.54	16.95	45.57		
2/2/2021	7	316700	17000	164	17	2429	518953	305	43.57	3.30	2.40	16.87	43.57		
2/9/2021	7	334500	17800	182	18	2543	519267	314	44.86	3.34	2.50	16.95	44.86		
2/16/2021	7	351900	17400	199	17	2486	519578	311	44.43	3.32	2.46	16.86	44.43		
2/23/2021	7	386300	34400	233	34	4914	520074	496	70.86	4.13	4.87	16.81	70.86		
3/2/2021	7	403400	17100	250	17	2443	520375	301	43.00	3.33	2.39	17.07	43.00		
3/9/2021	7	419600	16200	266	16	2314	520623	248	35.43	3.87	2.29	16.88	35.43		
3/16/2021	7	427300	7700	273	8	1100	520765	142	20.29	3.17	1.07	17.11	20.29		
3/23/2021	7	435600	8300	282	8	1186	520913	148	21.14	3.32	1.17	16.87	21.14		
3/30/2021	7	444300	8700	290	9	1243	521067	154	22.00	3.31	1.21	17.06	22.00		
4/6/2021	7	451900	7600	298	7	1086	521205	138	19.71	3.22	1.06	17.12	19.71		
4/13/2021	7	460800	8900	306	9	1271	521358	153	21.86	3.41	1.24	17.05	21.86		
4/20/2021	7	471300	10500	317	10	1500	521540	182	26.00	3.40	1.47	16.99	26.00		
4/27/2021	7	482700	11400	328	11	1629	521734	194	27.71	3.43	1.59	17.12	27.71		
5/4/2021	7	513000	30300	357	30	4329	522182	448	64.00	3.98	4.24	17.00	64.00		
5/11/2021	7	536800	23800	361	3	3400	522555	373	53.29	0.51	0.46	123.96	53.29		

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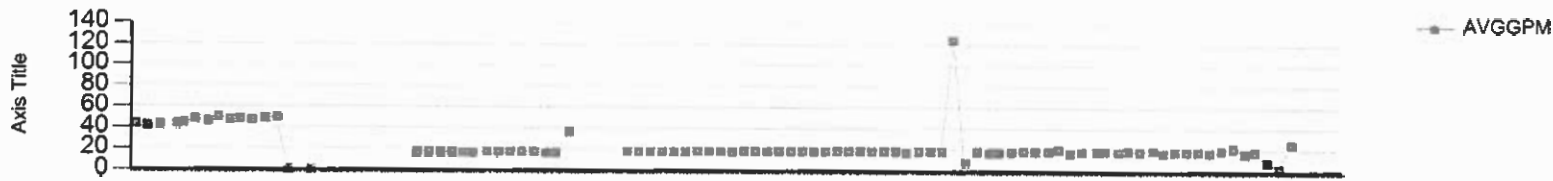
5/18/2021	7	549400	12600	393	32	1800	522772	217	31.00	8.93	4.61	6.50	31.00		
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6/2/2021	8	573500	12500	416	12	1563	523191	218	27.25	3.33	1.51	17.22	27.25		
6/8/2021	6	581500	8000	424	8	1333	523333	142	23.67	3.25	1.28	17.32	23.67		
6/15/2021	7	591000	9500	433	9	1357	523502	169	24.14	3.34	1.34	16.84	24.14		
6/22/2021	7	602600	11600	445	11	1657	523705	203	29.00	3.31	1.60	17.26	29.00		
6/29/2021	7	614900	12300	457	12	1757	523919	214	30.57	3.36	1.71	17.08	30.57		
7/7/2021	8	627000	12100	468	12	1513	524132	213	26.63	3.30	1.46	17.24	26.63		
7/13/2021	6	636400	9400	477	8	1567	524280	148	24.67	3.36	1.38	18.88	24.67		
7/20/2021	7	645000	8600	486	9	1229	524449	169	24.14	3.27	1.31	15.58	24.14		
7/27/2021	7	655770	10770	496	11	1539	524639	190	27.14	3.35	1.51	16.93	27.14		
8/5/2021	9	669800	14030	510	14	1559	524879	240	26.67	3.43	1.52	17.07	26.67		
8/10/2021	5	678300	8500	518	8	1700	525026	147	29.40	3.35	1.64	17.28	29.40		
8/18/2021	8	689400	11100	529	11	1388	525220	194	24.25	3.43	1.39	16.67	24.25		
8/24/2021	6	699200	9800	539	9	1633	525396	176	29.33	3.17	1.55	17.56	29.33		
8/31/2021	7	711205	12005	550	12	1715	525608	212	30.29	3.31	1.67	17.10	30.29		
9/8/2021	8	724600	13395	563	12	1674	525830	222	27.75	3.30	1.53	18.30	27.75		
9/14/2021	6	733300	8700	572	9	1450	526001	171	28.50	3.26	1.55	15.59	28.50		
9/21/2021	7	741800	8500	580	8	1214	526155	154	22.00	3.23	1.19	17.07	22.00		
9/28/2021	7	750100	8300	588	8	1186	526311	156	22.29	3.15	1.17	16.87	22.29		
10/5/2021	7	758700	8600	597	8	1229	526492	181	25.86	2.78	1.20	17.06	25.86		
10/12/2021	7	768000	9300	607	10	1329	526705	213	30.43	2.73	1.39	15.98	30.43		
10/19/2021	7	778000	10000	616	9	1429	526911	206	29.43	2.68	1.31	18.12	29.43		
10/26/2021	7	791400	13400	627	11	1914	527207	296	42.29	2.21	1.56	20.49	42.29		
11/2/2021	7	809200	17800	646	20	2543	527600	393	56.14	3.02	2.83	14.98	56.14		
11/8/2021	6	825900	16700	663	16	2783	527972	372	62.00	2.65	2.73	16.97	62.00		
11/16/2021	8	851200	25300	712	49	3163	528411	439	54.88	6.67	6.10	8.64	54.88		
11/23/2021	7	874200	23000	845	133	3286	528481	70	10.00	114.00	19.00	2.88	10.00		

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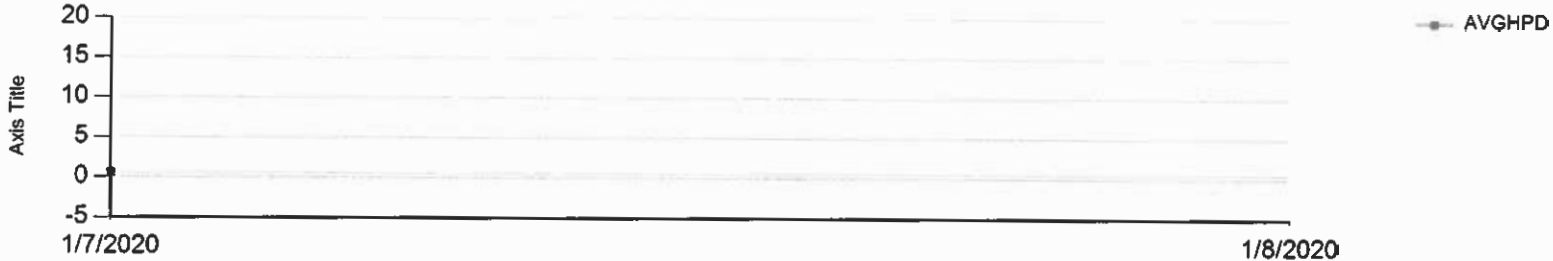
11/30/2021	7	907200	33000	867	23	4714	528483	2	0.29	678.00	3.23	24.34	0.29		
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12/14/2021	7	994000	47000	867	0	6714	528483	0	0.00	0.00	0.00	#Error	0.00		
12/21/2021	7	1049600	55600	867	0	7943	528483	0	0.00	0.00	0.00	#Error	0.00		
12/28/2021	7	1106900	57300	867	0	8186	528483	0	0.00	0.00	0.00	#Error	0.00		

Average Gallons per Minute



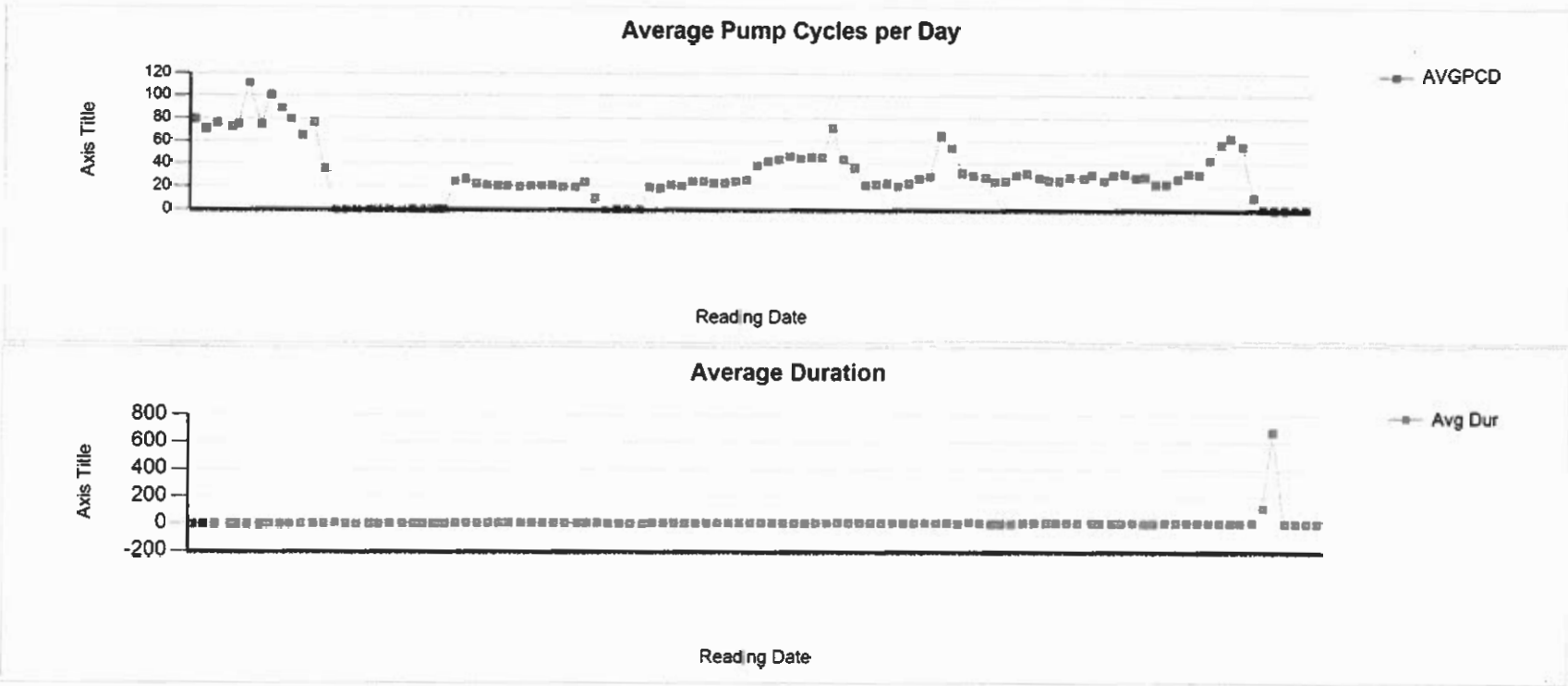
Reading Date

Average Hours per Day



Reading Date

PUMP STATUS REPORT FORM



APPENDIX C

SUNSET HILLS

G. ORIGINAL 24-HOUR PUMP TEST FOR EACH WELL

NOT AVAILABLE

APPENDIX C

SUNSET HILLS

- 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.