Public Drinking Water Construction Permit Application

version 2.13

(Submission #: HQR-8ZA3-ZJ63D, version 2)

Details

Submitted	9/21/2026 (0 days ago) by Stanley Welch
Alternate ID	VT0021131
Submission ID	HQR-8ZA3-ZJ63D
Status	Submitted

Fees

Construction Permit Application Fee	$900.00
Payments/Adjustments	($900.00)
Balance Due	$0.00 (Paid)

Form Input

Qualifying Questions

Select the type of application you are looking to submit:
Individual Construction Permit

Is this application for a minor amendment request?
No

Does the project include the connection of a well or surface water intake?
No

Is the performance of this project contingent on the completion of additional drinking water construction not included in this permit?
No

Application Type (based on qualifying questions)
Individual Construction

Water System Information

WSID
VT0021131

Name of Public Water System (PWS)
CRAFTSBURY COMMUNITY CARE CENTER

Public System Classification on record
Existing Non-Transient Non-Community (NTNC)

Is this Construction Permit Application for a new public water system?
No

Is this Construction Permit Application for an existing public water system converting to a different type of public water system?
No

Water System Owner(s) on record
CRAFTSBURY COMMUNITY CARE CENTER

Has the Water System Owner changed from what is currently on record with the Division?
No

Application Contact Information (1 of 2)

Name: Role: Applicant

Contact role: Please choose one of the roles for this contact. A new entry should be added for each individual contact. Note regarding Additional Contacts: an Additional Contact is any person or organization not listed as the applicant or engineer on the application, and not already listed as a water system contact.
Applicant

Is this Applicant the water system owner(s)?
Yes

> Since the applicant is the water system owner, the contact information for this applicant is already in the system.

Application Contact Information (2 of 2)

Name: Tailwater Engineering Role: Professional Engineer

Contact role: Please choose one of the roles for this contact. A new entry should be added for each individual contact. Note regarding Additional Contacts: an Additional Contact is any person or organization not listed as the applicant or engineer on the application, and not already listed as a water system contact.
Professional Engineer

Contact Name/Phone/Email

First Name	Last Name	Business Name	Phone	Ext	Cell	Email
Stanley	Welch	Tailwater Engineering	8022741888	*NONE PROVIDED*		stan@tailwaterengineeringvt.com

Mailing Address

Address 1	Address 2	Town	State/Province	Postal Code
149 Gilman Street	*NONE PROVIDED*	Marshfield	VT	05658

Project Information

Project Name
CCCC Well Pump Replacement

Brief description of proposed Construction, per Subchapter 21-4 of the WSR.
Replace the existing well pump with a smaller well pump and flow control orifice to reduce the flow rate from the well to the storage tanks and maintain submergence of the primary water bearing fracture in the well.

Will ALL proposed construction take place inside a Right Of Way (ROW).
No

SPAN(s) in this format ###-###-##### For linear projects, use the location information for the two ends of the project.

SPAN	911 Address	Town	Latitude (between 42.7 and 45.1)	Longitude (between -73.5 and -71.2)
168-053-10923	W of 1601 E. Craftsbury Road	Craftsbury	44.640550	-72.345320

Is this application being submitted as part of a Compliance Order, a Sanitary Survey Deficiency, or a Permit to Operate Schedule?
No

Do you plan to conduct construction in phases?
No

Is this construction approved for funding from any of the following sources?
Private

Chosen Funding Sources
Private

List the construction elements proposed for major components of the water system. These components include, but are not limited to, Source, Transmission, Distribution, Treatment, Pumping, Storage, Mainline and Specialty Valves and/or or Other (please specify).

Component Type	Other Type	Facility	Latitude (between 41.7 and 45.1)	Longitude (between -73.5 and -71.2)
Pumping		Well Source Pump	44.640550	-72.345320

Attachments

Signature Sheet

DWCP App Signature.pdf - 09/14/2026 02:23 PM
well app 2.pdf - 09/21/2026 03:42 PM
Comment
NONE PROVIDED

Detailed Description of Construction

CCC Well Pump BOD - 8.31.26.pdf - 09/02/2026 10:25 AM
Comment
Included in the narrative of the Basis of Design

Basis of Design

CCC Well Pump BOD - 8.31.26.pdf - 09/02/2026 10:26 AM
Comment
NONE PROVIDED

Location Map

CCCC Well Pump C1 - 8.31.26.pdf - 09/02/2026 10:26 AM
Comment
NONE PROVIDED

Construction Specifications

CCC Well Pump BOD APP D - 8.31.26.pdf - 09/02/2026 10:31 AM
Comment
Refer to Appendix D of the Basis of Design

Engineering Drawings

CCCC Well Pump C1 - 8.31.26.pdf - 09/02/2026 10:31 AM
Comment
NONE PROVIDED

Technical Design Basis Document(s) (1 of 1)

Craftsbury Community Care Center Well Easement

Use this section to upload any other documents you feel the Division should take into consideration when reviewing this permit application.

More than one document can be detailed here. To add a new document click on Add New Technical Design Basis Document(s).

If the proposed design presented in the application includes a component that does not meet the requirements of the Vermont Standards for Water System Design, construction, and Protection (Appendix A of the WSR), A Variance must be obtained as required by Subchapter 21-3, Section 3.7 of the WSR. The permit application will be considered technically incomplete until the Division has made a final decision (Approval or Denial) regarding a Variance, if one is required for the proposed project. Variance requests must be submitted to the Division and must meet the criteria established in Subchapter 21-3, Section 3.7.2 of the WSR.
Link to detailed information about the Water Supply Rule (opens in a new tab)

Document Name
Craftsbury Community Care Center Well Easement

Document Date
03/29/1994

Has this document been previously reviewed and approved by the Division?
No

Document Attachment
CCCC_well Easement.pdf - 09/21/2026 03:43 PM
Comment
NONE PROVIDED

Fee Details

Application Fee
900.00

Treatment Capacity Fee
0.00

TotalFeeCalc
900.00

Attachments

Date	Attachment Name	Context	User
9/21/2026 3:43 PM	CCCC_well Easement.pdf	Attachment	Stanley Welch
9/21/2026 3:42 PM	well app 2.pdf	Attachment	Stanley Welch
9/14/2026 2:23 PM	DWCP App Signature.pdf	Attachment	Stanley Welch
9/2/2026 10:31 AM	CCCC Well Pump C1 - 8.31.26.pdf	Attachment	Stanley Welch
9/2/2026 10:31 AM	CCC Well Pump BOD APP D - 8.31.26.pdf	Attachment	Stanley Welch

Date	Attachment Name	Context	User
9/2/2026 10:26 AM	CCCC Well Pump C1 - 8.31.26.pdf	Attachment	Stanley Welch
9/2/2026 10:26 AM	CCC Well Pump BOD - 8.31.26.pdf	Attachment	Stanley Welch
9/2/2026 10:25 AM	CCC Well Pump BOD - 8.31.26.pdf	Attachment	Stanley Welch

VERMONT
ENVIRONMENTAL CONSERVATION

APPLICATION

Drinking Water and Groundwater Protection Division

Public Drinking Water System Construction Permit – Signature Sheet

A. Applicant Certification (this section must be completed for every application)

I, Geoffrey Bok (print name), Board President (title, if authorized representative of applicant), certify that the statements and representations made above are true and accurate and that I authorize submittal of the attached documents by a professional engineering consultant. I certify that I will, prior to construction, have an enforceable permanent property interest to access and use each property where the proposed construction will occur, or I have the legal authority to sign on behalf of the entity that has such property interest. I give consent to employees of the State of Vermont to enter the subject property and conduct all necessary inspections for the purpose of processing this application. I understand that, if issued, the Construction Permit will require the project be completed by a Vermont-licensed Professional Engineer.

Signature of Applicant or Authorized Representative: _____

Date: 9/21/26

B. Professional Engineer Certification (this section must be completed for every application)

I, Stanley Welch, PE (print name), certify that this application meets the Vermont Standards for Water System Design, Construction, and Protection established in Appendix A of the WSR, and that this application meets the requirements of the Vermont Water Supply Rule, Chapter 21 of Vermont Environmental Protection Rules. I certify that this application includes all information as required by the Rule.

Signature of Professional Engineering Consultant: S. M. Welch

Date: 9/21/2026

C. Co-applicant Certification (to be completed by each co-applicant, if there is no co-applicant, write "none")

I, _____ (print name), _____ (title, if authorized representative of applicant), certify that the statements and representations made above are true and accurate and that I authorize submittal of the attached documents by a professional engineering consultant. I certify that I will, prior to construction, have an enforceable permanent property interest to access and use each property where the proposed construction will occur, or I have the legal authority to sign on behalf of the entity that has such property interest. I give consent to employees of the State of Vermont to enter the subject property and

Tailwater Engineering
802.249.4210 • brad@tailwaterengineeringvt.com • 149 Gilman Street, Marshfield, VT 05658

Craftsbury Community Care Center Well Pump Replacement
Basis of Design
WSID: VT0021131
Craftsbury, Vermont
Prepared by: Stanley Welch, PE
08/31/2026

Project Summary

The Craftsbury Community Care Center, WSID: 21131, is a Non-Transient Non-Community (NTNC) water system in Craftsbury, Vermont which serves a population of approximately 32 residents and employees from a drilled bedrock well (Well 001). The system is seeking to replace the existing well pump with a smaller pump and to control flow from the well to maintain submergence of the primary water bearing fracture and improve aging infrastructure.

This Basis of Design report references and summarizes the scope, existing conditions, proposed conditions, and design criteria to demonstrate the proposed system's compliance with the Vermont Water Supply Rule (WSR). The following Construction Permit application documents should be reviewed along with this report:

- Plan Sheets: Craftsbury Community Care Center Well Pump Replacement, Tailwater Engineering (1 sheet C1) August 28, 2026
- Construction Permit Application Form (Not attached at 60%)
- Proposed Equipment Cut sheets and Specifications

Location:

- CCCC - 1784 E. Craftsbury Road, Craftsbury, VT
    - Well site west of the property on the west side of East Craftsbury Road.

Scope:

Proposed construction includes the following:

- Removal and replacement of the system's well pump with a smaller capacity pump
- Installation of an orifice flow controller
- The replacement of the well pump piping and electrical wiring if found to be in poor condition, during the installation of the new well pump.

Existing Conditions:

The existing Craftsbury Community Care Center water system (WSID – 21131) was initially permitted in 1996 for a community care center housing up to 29 residents. The

source is a 399-foot-deep bedrock well drilled in 1993 permitted for a yield of 5 gallons per minute (gpm) by source permit PID #E-0226.

The average day demand of the system as permitted is 3,625 gallons per day based on population calculations.

The system operations are described as follows:

- Water level in the storage tanks reach pump-on level by a float located in the storage tanks.
- The well pump is activated, and water is pumped from the well into the mechanical room of the facility. Chlorine is injected into this source pipe and then exits the building and enters two buried 4,000 pre-cast storage tanks (8,000 gallons total).
- The well pump will continue to pump until the pump-off level is reached in the storage tank.
- The system operates by control panel and pressure switches to maintain between 35 psi (pump-on) and 50 psi (pump-off) operating pressures. When pump-on pressure is reached, one of the two booster pumps will turn on and repressurize the system until the pump-off pressure is reached. Two Well-X-Trol 350 hydropneumatic tanks are installed to store and provide pressurized water. As noted in the permitting plans, the booster pumps are sized for a flow of 62.5 gpm at 30 psi,

The system is continuously chlorinated. No water quality concerns have been noted by the current Owner and Operator. The initial water quality sampling of the source is provided in Appendix A.

Water softening is provided for the hot water system only, for the purpose of removing hardness that could precipitate out on the hot water heating coils. Domestic cold water is not softened.

Currently the facility is at maximum resident capacity and fully staffed. A review of the monthly operating reports from July 2025 through July of 2026 indicate that the actual average day demand of the existing system is 1,280 gallons per day. Based on the facility housing 24 full-time residents, this equates to approximately 54 gallons per day per resident for total water usage. Refer to Appendix B for the data referenced.

When originally permitted as an NTNC, the source was approved for 5 gpm. This was based on 29 rooms as a community system which provided additional capacity for future expansion beyond the 24 existing rooms.

Although the existing source is permitted for 5 gpm, an oversized well pump is installed in the bore which has been observed to draw the water level in the well down below the primary water bearing fracture found at 95-98 feet. Pumping cycles have been observed at an approximate duration of 203 minutes per cycle. As a result of the draw down, the primary fracture is being exposed to oxidation cycles which can promote biological growth and reduce overall hydraulic conductivity of the fracture.

A typical pumping cycle graph (3 hours long) is provided in Appendix C and shows an initial flow rate of 17-18 gpm. Over the first 60-80 minutes, the flow rate reduces to approximately 9.5 gpm for the last 120 minutes. This is due to the water column within the well being lowered, causing the total dynamic head to increase. Although the water column is lowered each pumping cycle, the static level returns to approximately 10' between each cycle. The existing pump is a Goulds 10GS15, set at 380 feet below grade. Based on information provided by the owner, the well pump was installed in 2001 and has reached the end of its expected useful life.

The most recent sanitary survey letter from March 11, 2024, was reviewed and no significant deficiencies associated with the water system were noted. Only monitor deficiencies were indicated and have since been addressed by the system Owners and Operators.

- System Demands as Provided by review of 1-year of daily meter data:
    - Average Day Demand (ADD) CCCC= 1,280 gpd.
    - Max Day Demand (MDD) = 3,291gpd (peaking factor of 2.6)
        - Design Rate for Source = 2.29 gpm (MDD in 24 hours)
            - Design Rate for Source (future CCCC expansion) = Additional 5 rooms @ 125 gpd per (WSR) and a PF of 2.0 = 3.15 gpm

Proposed Conditions:

Since the well pump has reached the end of its useful lifespan, the Community Care Center is seeking a proactive replacement of the pump with a smaller pump and a flow control device in an attempt to reduce the overall water column draw down and extend the duration of each pumping cycle. The proposal seeks to keep the primary water bearing fracture at 95-98' within the well submerged under all conditions of operation. The proposed reduction in flow will also allow for additional data collection to correlate the current well yield to the original pumping test data from 1993. This analysis will assist the owner in determining the status of the well's sustainable yield and if consideration of future source planning is necessary.

As discussed earlier, a flow control orifice sized for 7 gpm is to be installed on the well pipe between the well pump and the pitless adapter. This location has been selected to maintain the existing hydraulic conditions in the existing 2" SDR 26 PVC raw water main from the well to the Community Care Center. The project proposes the purchase and storage of a smaller orifice flow controller sized for 5 gpm if the performance of the well has declined, and a further reduction of flow rate is sought to maintain submergence of the primary water bearing fracture.

Pump Sizing

As shown by profile on sheet C5 pf the original design drawings for the Community Care Center, the well is sited uphill from the facility and the storage tank discharges. With the well normal static elevation at approximately 10', the well pump is pumping downhill to the storage tanks.

The invert elevation into the storage tanks is noted on the design plans as 89.3.' The grade elevation at the well is shown as approximately 130'. The normal static water level in the well is approximated at 120', with the primary water bearing fracture at an elevation of 35' – 32' in reference to the design plan datum.

For sustainable operation, a target elevation of 30' has been selected for pump operation. At this depth, the primary fracture remains submerged, and the elevation head of the system is approximately 60'. Dynamic Losses through the pitless adapter, fittings, and the raw water main are estimated at an additional 5' for an approximate total dynamic head of 65'. Operation at 7 gpm, the performance curve of a Goulds 7GS07 shows 300' of total dynamic head, indicating that the orifice flow controller will backpressure approximately 235' of head. At the start of the cycle, the backpressure provided by the orifice flow controller will be more until the water column is drawn down to a stabilized level. The operating range for system backpressure is estimated between 115 psi and 130 psi depending on where the water level in the well stabilizes at 7 gpm.

A 7GS07 is recommended to maintain the expected operating range of the orifice flow controller within the published standard of 0-150 psi. The pump is large enough to pump down the water column, if necessary, for additional testing or if future drought conditions begin to impact the acquirer and the static level is lowered. If the 7-gpm flow controller were swapped out for the 5-gpm flow controller, the expected backpressure range would be 115 – 150 psi.

The pump curve, and orifice flow controller literature are provided in Appendix D.

No changes to internal uses, disinfection, or distribution system pumping are proposed.

If based on inspection the well pump discharge piping is required, class 200 HPDE water line will be utilized for the replacement. The replacement piping will be pressure/leakage tested in accordance with the water supply rule and AWWA standards, flushed, and disinfected.

APPENDIX A – Initial Water Quality Source Sampling

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32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

DATE: August 30, 1993
CLIENT: Green Mountain Engineering
PROJECT: Craftsbury Comm. Care Center
PROJECT CODE: GMTE2463
COLLECTED BY: Brent Whitney
DATE SAMPLED: August 26, 1993
DATE RECEIVED: August 26, 1993

Tested parameter is reported in CFU/100 mls.

Parameter	Reference Number
	50,597
Total Coliform	Zero*

Sample ID:

50,597: New Well; 10:00 a.m.

NOTES:

* This sample passes the requirements for potable water as stated by the Vermont Department of Health.

Reviewed by:

ENDYNE, INC.

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LABORATORY REPORT

STANDARD METHOD 509B HERBICIDES

CLIENT: Green Mountain Engineering
PROJECT NAME: Craftsbury Comm. Care Ctr.
REPORT DATE: September 9, 1993
SAMPLER: Brent Whitney
DATE SAMPLED: August 28, 1993
DATE RECEIVED: August 30, 1993
DATE EXTRACTED: September 3, 1993

PROJECT CODE: GMTE1493
ANALYSIS DATE: September 8, 1993
STATION: New Well
REF.#: 50,709
TIME SAMPLED: 8:45 a.m.

Parameter	Concentration (ug/L)[1]
2,4-D	ND[2]
Silvex	ND

NOTES:

1 Method detection limit is 2 ug/L.
2 None detected

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LABORATORY REPORT
EPA METHOD 508 -- ORGANOCHLORINE PESTICIDES (WATER)

CLIENT: Green Mountain Engineering
PROJECT NAME: Craftsbury Comm. Care Center PROJECT CODE: GMTE1492
REPORT DATE: September 9, 1993 ANALYSIS DATE: September 8, 1993
SAMPLER: Brent Whitney STATION: New Well
DATE SAMPLED: August 28, 1993 REF. #: 50,708
DATE RECEIVED: August 30, 1993 TIME SAMPLED: 8:45 a.m.
DATE EXTRACTED: September 1, 1993

Parameter	Detection Limit (ug/L)	Concentration (ug/L)
Atrazine	3	ND[1]
Alachlor	2	ND
Aldrin	0.5	ND
Simazine	3	ND
Heptachlor	0.4	ND
Heptachlor Epoxide	0.2	ND
DDD	0.5	ND
DDE	0.5	ND
Dieldrin	0.5	ND
DDT	0.5	ND
a BHC	0.5	ND
b BHC	0.5	ND
g BHC	0.5	ND
y BHC	0.5	ND
Chlordane	0.5	ND
Endosulfan I	0.5	ND
Endosulfan II	0.5	ND
Endosulfan Sulfate	0.5	ND
Endrin	0.2	ND
Endrin Aldehyde	0.5	ND
Methoxychlor	5	ND
Toxaphene	1	ND

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EPA METHOD 508 (continued) Ref. #: 50,708

Arochlor-1016	1	ND
Arochlor-1221	1	ND
Arochlor-1232	1	ND
Arochlor-1242	1	ND
Arochlor-1248	1	ND
Arochlor-1254	1	ND
Arochlor-1260	1	ND
Unspecified PCB	1	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

Analytical Surrogate Recovery:

Dibutylchlorendate:	73.%
Octachloronapthalene:	76.%

NOTES:

1 None detected



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LABORATORY REPORT

CLIENT: Green Mountain Engineering
PROJECT NAME: Craftsbury Comm. Care Center
REPORT DATE: September 13, 1993
DATE SAMPLED: August 28, 1993
DATE RECEIVED: August 30, 1993

PROJECT CODE: GMTE3489
REF.#: 50,705
STATION: New Well
TIME SAMPLED: 8:45 a.m.
SAMPLER: Brent Whitney

Tested parameters are reported in milligrams per liter (ppm). Digestion was performed by EPA Method 3010/3020.

Parameter	Concentration	EPA Method	Analysis Date
Total Arsenic	<0.005	7060	9/13/93
Total Barium	<0.010	6010	9/10/93
Total Cadmium	<0.005	6010	9/10/93
Total Chromium	<0.010	6010	9/10/93
Total Lead	<0.002	7421	8/31/93
Total Mercury	<0.001	7470	8/30/93
Total Silver	<0.010	6010	9/10/93
Total Selenium	<0.010	7740	9/13/93

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LABORATORY REPORT

MATRIX SPIKE AND DUPLICATE LABORATORY CONTROL DATA

CLIENT: Green Mountain Engineering
PROJECT NAME: Craftsbury Comm. Care Center
REPORT DATE: September 13, 1993
DATE SAMPLED: August 28, 1993

PROJECT CODE: GMTE3489

SPIKE QA/QC DATA:

Parameter	Ref.#	Sample(mg/L)	Spike(mg/L)	% Recovery
Barium	50,705	<0.010	0.400	110.
Cadmium	50,705	<0.005	0.200	102.
Chromium	50,705	<0.010	0.400	106.
Silver	50,705	<0.010	0.400	97.8

DUPLICATE QA/QC DATA:

Parameter	Ref.#	Dup 1(mg/L)	Dup 2(mg/L)	Avg % Deviation
Arsenic	50,705	<0.005	<0.005	ND[1]
Barium	50,705	<0.010	0.011	ND
Cadmium	50,705	<0.005	<0.005	ND
Chromium	50,705	<0.010	<0.010	ND
Lead	50,705	<0.002	<0.002	ND
Silver	50,705	<0.010	<0.010	ND
Selenium	50,705	<0.010	<0.010	ND

Notes:

1 None Detected

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(7)

LABORATORY REPORT

DATE: September 13, 1993
CLIENT: Green Mountain Engineering
PROJECT: Craftsbury Comm. Care Center
PROJECT CODE: GMTE2490
COLLECTED BY: Brent Whitney
DATE SAMPLED: August 28, 1993
DATE RECEIVED: August 30, 1993

Tested parameters are reported in milligrams per liter (ppm), except as indicated below.

Parameter	Reference Number
	50,706
Nitrogen, Nitrite	<0.005
Nitrogen, Nitrate	0.040
Turbidity (NTU)	0.05
Flouride	<0.100

Sample ID:

50,706: New Well; 8:45 a.m.

Reviewed by:

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FAX 879-7103

LABORATORY REPORT

EPA METHOD 524.2

CLIENT: Green Mountain Engineering
PROJECT NAME: Craftsbury Comm. Care Center PROJECT CODE: GMTE1491
REPORT DATE: September 14, 1993 ANALYSIS DATE: September 10, 1993
SAMPLER: Brent Whitney STATION: New Well
DATE SAMPLED: August 28, 1993 REF. #: 50,707
DATE RECEIVED: August 30, 1993 TIME SAMPLED: 8:45

TRIHALOMETHANES

Parameter	Concentration (ug/L)	Maximum Contaminant Level (ug/L)[1]
Bromodichloromethane	ND[2]	----
Bromoform	ND	----
Chloroform	ND	----
Dibromochloromethane	ND	----
Total Trihalomethanes	ND	100.

PURGEABLE HALOCARBONS AND AROMATICS

Parameter	Concentration (ug/L)	Maximum Contaminant Level (ug/L)
Benzene	ND	5.0
Bromobenzene	ND	----
Bromochloromethane	ND	----
Bromomethane	ND	----
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	100.
Chloroethane	ND	----
Chloromethane	ND	----
(2&4)Chlorotoluene	ND	----
1,2-Dibromo-3-chloropropane	ND	0.2
1,2-Dibromoethane	ND	----
Dibromomethane	ND	----

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PURGEABLE HALOCARBONS AND AROMATICS (continued) REF.#: 50,707

Parameter	Concentration (ug/L)	Maximum Contaminant Level (ug/L)
1,2-Dichlorobenzene	ND	600.
1,3-Dichlorobenzene	ND	----
1,4-Dichlorobenzene	ND	75.
Dichlorodifluoromethane	ND	----
1,1-Dichloroethane	ND	----
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	7.0
cis-1,2-Dichloroethene	ND	70.
trans-1,2-Dichloroethene	ND	100.
1,2-Dichloropropane	ND	5.0
1,3-Dichloropropane	ND	----
2,2-Dichloropropane	ND	----
1,1-Dichloropropene	ND	----
Ethylbenzene	ND	700.
cis-1,3-Dichloropropene	ND	----
trans-1,3-Dichloropropene	ND	----
Methylene Chloride	ND	----
Styrene	ND	100.
1,1,1,2-Tetrachloroethane	ND	----
1,1,2,2-Tetrachloroethane	ND	----
Tetrachloroethene	ND	5.0
Toluene	1.1	1,000.
1,1,1-Trichloroethane	ND	200.
1,1,2-Trichloroethane	ND	----
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	----
1,2,3-Trichloropropane	ND	----
Vinyl Chloride	ND	2.0
Total Xylenes	ND	10.0
Hydrogen Sulfide	ND	----

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

Analytical Surrogate Recovery:
4-Bromofluorobenzene: 92.%
1,2 Dichlorobenzene-d4: 95.%

NOTES:
1 Maximum Contaminant Level is the Vermont regulatory level for drinking water supplies.
2 None detected

(10)

ENDYNE, INC.

Laboratory Services

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(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 504 EDB/DBCP

CLIENT: Green Mountain Engineering
PROJECT NAME: Craftsbury Comm. Care Center PROJECT CODE: GMTE1494
REPORT DATE: September 21, 1993 ANALYSIS DATE: September 21, 1993
SAMPLER: Brent Whitney STATION: New Well
DATE SAMPLED: August 28, 1993 REF.#: 50,710
DATE RECEIVED: August 30, 1993 TIME SAMPLED: 8:45 a.m.

Parameter	Concentration (ug/L)[1]
1,2-Dibromoethane	ND[2]
1,2-Dibromo-3-chloropropane	ND

NOTES:

1 Method detection limit is .05 ug/L.
2 None detected

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LABORATORY REPORT

CARBAMATE PESTICIDES - EPA METHOD 531.1 (WATER)

CLIENT: Green Mountain Engineering
REPORT DATE: September 27, 1993
PROJECT NAME: Craftsbury Comm. Care Center
PROJECT CODE: GMTE4497
DATE SAMPLED: August 28, 1993
DATE RECEIVED: August 30, 1993
SAMPLER: Brent Whitney

Reference #	Sample ID	Conc.(mg/L)[1]
50,713	New Well; 8:45 a.m.	ND[2]

Notes:

1 Sample analyzed by outside laboratory.
2 None detected

Reviewed by_____

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

DATE: October 4, 1993
CLIENT: Green Mountain Engineering
PROJECT: Craftsbury Comm. Care Cntr.
PROJECT CODE: GMTE4496
COLLECTED BY: Brent Whitney
DATE SAMPLED: August 28, 1993
DATE RECEIVED: August 30, 1993

Tested parameters are reported in picocuries per liter.

Parameter	Reference Number
	50,712
Gross Alpha[1]	1.08 ± 0.37
Gross Beta[1]	0.40 ± 0.83

Sample ID:

50,712 : New Well ; 8:45 a.m.

Notes:

1 Result analyzed by outside laboratory.

Reviewed by: _____

APPENDIX B – Craftsbury Community Care Center Water System Usage Summary – July 2025- July 2026

Date	Meter Reading	Cubic Ft	Gallons
7/1/2025	2372170	170	1271.6
7/2/2025	2372410	240	1795.2
7/3/2025	2372680	270	2019.6
7/4/2025	2372880	200	1496
7/5/2025	2373000	120	897.6
7/6/2025	2373200	200	1496
7/7/2025	2373440	240	1795.2
7/8/2025	2373670	230	1720.4
7/9/2025	2373850	180	1346.4
7/10/2025	2374040	190	1421.2
7/11/2025	2374210	170	1271.6
7/12/2025	2374370	160	1196.8
7/13/2025	2374520	150	1122
7/14/2025	2374670	150	1122
7/15/2025	2374840	170	1271.6
7/16/2025	2375040	200	1496
7/17/2025	2375260	220	1645.6
7/18/2025	2375450	190	1421.2
7/19/2025	2375590	140	1047.2
7/20/2025	2375750	160	1196.8
7/21/2025	2375930	180	1346.4
7/22/2025	2376110	180	1346.4
7/23/2025	2376280	170	1271.6
7/24/2025	2376430	150	1122
7/25/2025	2376590	160	1196.8
7/26/2025	2376750	160	1196.8
7/27/2025	*2376910*	*160*	*1196.8*
7/28/2025	2377070	160	1196.8
7/29/2025	2377260	190	1421.2
7/30/2025	*2377430*	*170*	*1271.6*
7/31/2025	2377580	150	1122
8/1/2025	2377730	150	1122
8/2/2025	2377930	200	1496
8/3/2025	2378370	440	3291.2
8/4/2025	2378670	300	2244
8/5/2025	2378880	210	1570.8
8/6/2025	2379040	160	1196.8
8/7/2025	2379250	210	1570.8
8/8/2025	2379420	170	1271.6
8/9/2025	2379580	160	1196.8
8/10/2025	2379760	180	1346.4
8/11/2025	2379960	200	1496
8/12/2025	2380160	200	1496

Date	Meter Reading	Cubic Ft	Gallons
8/13/2025	2380360	200	1496
8/14/2025	2380530	170	1271.6
8/15/2025	2380690	160	1196.8
8/16/2025	2380820	130	972.4
8/17/2025	2380970	150	1122
8/18/2025	2381130	160	1196.8
8/19/2025	2381320	190	1421.2
8/20/2025	2381510	190	1421.2
8/21/2025	2381680	170	1271.6
8/22/2025	2381880	200	1496
8/23/2025	2382010	130	972.4
8/24/2025	2382200	190	1421.2
8/25/2025	2382360	160	1196.8
8/26/2025	2382550	190	1421.2
8/27/2025	2382710	160	1196.8
8/28/2025	2382920	210	1570.8
8/29/2025	2383090	170	1271.6
8/30/2025	2383240	150	1122
8/31/2025	2383380	140	1047.2
9/1/2025	2383570	190	1421.2
9/2/2025	2383750	180	1346.4
9/3/2025	2383990	240	1795.2
9/4/2025	2384170	180	1346.4
9/5/2025	2384330	160	1196.8
9/6/2025	2384490	160	1196.8
9/7/2025	2384650	160	1196.8
9/8/2025	2384840	190	1421.2
9/9/2025	2385030	190	1421.2
9/10/2025	2385200	170	1271.6
9/11/2025	2385390	190	1421.2
9/12/2025	2385500	110	822.8
9/13/2025	2385640	140	1047.2
9/14/2025	2385810	170	1271.6
9/15/2025	2386000	190	1421.2
9/16/2025	2386200	200	1496
9/17/2025	2386380	180	1346.4
9/18/2025	2386570	190	1421.2
9/19/2025	2386720	150	1122
9/20/2025	2386870	150	1122
9/21/2025	2387020	150	1122
9/22/2025	2387190	170	1271.6
9/23/2025	2387350	160	1196.8
9/24/2025	2387540	190	1421.2

Date	Meter Reading	Cubic Ft	Gallons
9/25/2025	2387760	220	1645.6
9/26/2025	2387940	180	1346.4
9/27/2025	2388110	170	1271.6
9/28/2025	2388350	240	1795.2
9/29/2025	2388430	80	598.4
9/30/2025	2388590	160	1196.8
10/1/2025	2388760	170	1271.6
10/2/2025	2389000	240	1795.2
10/3/2025	2389125	125	935
10/4/2025	2389250	125	935
10/5/2025	2389420	170	1271.6
10/6/2025	2389590	170	1271.6
10/7/2025	2389750	160	1196.8
10/8/2025	2389910	160	1196.8
10/9/2025	2390080	170	1271.6
10/10/2025	2390290	210	1570.8
10/11/2025	2390460	170	1271.6
10/12/2025	2390590	130	972.4
10/13/2025	2390750	160	1196.8
10/14/2025	2390900	150	1122
10/15/2025	2391070	170	1271.6
10/16/2025	2391240	170	1271.6
10/17/2025	2391420	180	1346.4
10/18/2025	2391620	200	1496
10/19/2025	2391710	90	673.2
10/20/2025	2391850	140	1047.2
10/21/2025	2392020	170	1271.6
10/22/2025	2392190	170	1271.6
10/23/2025	2392380	190	1421.2
10/24/2025	2392550	170	1271.6
10/25/2025	2392740	190	1421.2
10/26/2025	2392890	150	1122
10/27/2025	2393020	130	972.4
10/28/2025	2393200	180	1346.4
10/29/2025	2393350	150	1122
10/30/2025	2393520	170	1271.6
10/31/2025	2393690	170	1271.6
11/1/2025	2393840	150	1122
11/2/2025	2394010	170	1271.6
11/3/2025	2394180	170	1271.6
11/4/2025	2394380	200	1496
11/5/2025	2394550	170	1271.6
11/6/2025	2394760	210	1570.8

Date	Meter Reading	Cubic Ft	Gallons
11/7/2025	2394940	180	1346.4
11/8/2025	2395110	170	1271.6
11/9/2025	2395270	160	1196.8
11/10/2025	2395440	170	1271.6
11/11/2025	2395600	160	1196.8
11/12/2025	2395800	200	1496
11/13/2025	2395940	140	1047.2
11/14/2025	2396110	170	1271.6
11/15/2025	2396310	200	1496
11/16/2025	2396460	150	1122
11/17/2025	2396790	330	2468.4
11/18/2025	2396960	170	1271.6
11/19/2025	2397140	180	1346.4
11/20/2025	2397330	190	1421.2
11/21/2025	2397500	170	1271.6
11/22/2025	2397650	150	1122
11/23/2025	2397810	160	1196.8
11/24/2025	2397970	160	1196.8
11/25/2025	2398150	180	1346.4
11/26/2025	2398340	190	1421.2
11/27/2025	2398570	230	1720.4
11/28/2025	2398740	170	1271.6
11/29/2025	2398900	160	1196.8
11/30/2025	2399090	190	1421.2
12/1/2025	2399260	170	1271.6
12/2/2025	2399430	170	1271.6
12/3/2025	2399610	180	1346.4
12/4/2025	2399800	190	1421.2
12/5/2025	2399970	170	1271.6
12/6/2025	2400150	180	1346.4
12/7/2025	2400290	140	1047.2
12/8/2025	2400430	140	1047.2
12/9/2025	2400710	280	2094.4
12/10/2025	2400900	190	1421.2
12/11/2025	*2401070*	*170*	*1271.6*
12/12/2025	2401220	150	1122
12/13/2025	*2401430*	*210*	*1570.8*
12/14/2025	2401590	160	1196.8
12/15/2025	2401720	130	972.4
12/16/2025	2401940	220	1645.6
12/17/2025	2402130	190	1421.2
12/18/2025	2402320	190	1421.2
12/19/2025	2402510	190	1421.2

Date	Meter Reading	Cubic Ft	Gallons
12/20/2025	2402700	190	1421.2
12/21/2025	2402830	130	972.4
12/22/2025	2402970	140	1047.2
12/23/2025	2403160	190	1421.2
12/24/2025	2403330	170	1271.6
12/25/2025	2403510	180	1346.4
12/26/2025	2403690	180	1346.4
12/27/2025	2403850	160	1196.8
12/28/2025	2404010	160	1196.8
12/29/2025	*2404200*	*190*	*1421.2*
12/30/2025	2404400	200	1496
12/31/2025	2404570	170	1271.6
1/1/2026	2404750	180	1346.4
1/2/2026	2404920	170	1271.6
1/3/2026	2405120	200	1496
1/4/2026	2405330	210	1570.8
1/5/2026	2405500	170	1271.6
1/6/2026	2405680	180	1346.4
1/7/2026	2405860	180	1346.4
1/8/2026	2406010	150	1122
1/9/2026	2406170	160	1196.8
1/10/2026	*2406320*	*150*	*1122*
1/11/2026	2406510	190	1421.2
1/12/2026	2406700	190	1421.2
1/13/2026	2406890	190	1421.2
1/14/2026	2407180	290	2169.2
1/15/2026	2407370	190	1421.2
1/16/2026	2407570	200	1496
1/17/2026	2407790	220	1645.6
1/18/2026	2407950	160	1196.8
1/19/2026	2408110	160	1196.8
1/20/2026	2408290	180	1346.4
1/21/2026	2408480	190	1421.2
1/22/2026	2408680	200	1496
1/23/2026	2408860	180	1346.4
1/24/2026	2409020	160	1196.8
1/25/2026	2409180	160	1196.8
1/26/2026	2409370	190	1421.2
1/27/2026	2409540	170	1271.6
1/28/2026	2409700	160	1196.8
1/29/2026	2409860	160	1196.8
1/30/2026	2410050	190	1421.2
1/31/2026	2410210	160	1196.8

Date	Meter Reading	Cubic Ft	Gallons
2/1/2026	2410360	150	1122
2/2/2026	2410520	160	1196.8
2/3/2026	2410700	180	1346.4
2/4/2026	2410890	190	1421.2
2/5/2026	2411100	210	1570.8
2/6/2026	2411280	180	1346.4
2/7/2026	2411430	150	1122
2/8/2026	2411540	110	822.8
2/9/2026	2411730	190	1421.2
2/10/2026	2411890	160	1196.8
2/11/2026	2412050	160	1196.8
2/12/2026	2412230	180	1346.4
2/13/2026	2412390	160	1196.8
2/14/2026	2412550	160	1196.8
2/15/2026	2412680	130	972.4
2/16/2026	2412840	160	1196.8
2/17/2026	2413010	170	1271.6
2/18/2026	2413180	170	1271.6
2/19/2026	2413400	220	1645.6
2/20/2026	2413540	140	1047.2
2/21/2026	2413700	160	1196.8
2/22/2026	2413890	190	1421.2
2/23/2026	2413990	100	748
2/24/2026	2414150	160	1196.8
2/25/2026	2414310	160	1196.8
2/26/2026	2414510	200	1496
2/27/2026	2414670	160	1196.8
2/28/2026	2414850	180	1346.4
3/1/2026	2414990	140	1047.2
3/2/2026	2415130	140	1047.2
3/3/2026	2415310	180	1346.4
3/4/2026	2415490	180	1346.4
3/5/2026	2415780	290	2169.2
3/6/2026	2415930	150	1122
3/7/2026	2416140	210	1570.8
3/8/2026	2416310	170	1271.6
3/9/2026	2416470	160	1196.8
3/10/2026	2416620	150	1122
3/11/2026	2416780	160	1196.8
3/12/2026	2416970	190	1421.2
3/13/2026	2417150	180	1346.4
3/14/2026	2417370	220	1645.6
3/15/2026	2417510	140	1047.2

Date	Meter Reading	Cubic Ft	Gallons
3/16/2026	2417620	110	822.8
3/17/2026	2417830	210	1570.8
3/18/2026	2418010	180	1346.4
3/19/2026	2418170	160	1196.8
3/20/2026	2418340	170	1271.6
3/21/2026	2418510	170	1271.6
3/22/2026	2418660	150	1122
3/23/2026	2418820	160	1196.8
3/24/2026	2418970	150	1122
3/25/2026	2419150	180	1346.4
3/26/2026	2419340	190	1421.2
3/27/2026	2419500	160	1196.8
3/28/2026	2419650	150	1122
3/29/2026	2419770	120	897.6
3/30/2026	2419920	150	1122
3/31/2026	2420190	270	2019.6
4/1/2026	2420290	100	748
4/2/2026	2420460	170	1271.6
4/3/2026	2420640	180	1346.4
4/4/2026	2420780	140	1047.2
4/5/2026	2420930	150	1122
4/6/2026	2421080	150	1122
4/7/2026	2421250	170	1271.6
4/8/2026	2421420	170	1271.6
4/9/2026	2421580	160	1196.8
4/10/2026	2421720	140	1047.2
4/11/2026	2421870	150	1122
4/12/2026	2422010	140	1047.2
4/13/2026	2422130	120	897.6
4/14/2026	2422290	160	1196.8
4/15/2026	2422430	140	1047.2
4/16/2026	2422600	170	1271.6
4/17/2026	2422830	230	1720.4
4/18/2026	2422890	60	448.8
4/19/2026	2423030	140	1047.2
4/20/2026	2423170	140	1047.2
4/21/2026	2423530	360	2692.8
4/22/2026	2423710	180	1346.4
4/23/2026	2423870	160	1196.8
4/24/2026	2424030	160	1196.8
4/25/2026	2424160	130	972.4
4/26/2026	2424290	130	972.4
4/27/2026	2424620	330	2468.4

Date	Meter Reading	Cubic Ft	Gallons
4/28/2026	2424620	0	0
4/29/2026	2424790	170	1271.6
4/30/2026	2424930	140	1047.2
5/1/2026	2425070	140	1047.2
5/2/2026	2425220	150	1122
5/3/2026	2425380	160	1196.8
5/4/2026	2425540	160	1196.8
5/5/2026	2425730	190	1421.2
5/6/2026	2425910	180	1346.4
5/7/2026	2426070	160	1196.8
5/8/2026	2426240	170	1271.6
5/9/2026	2426380	140	1047.2
5/10/2026	2426540	160	1196.8
5/11/2026	2426690	150	1122
5/12/2026	2426870	180	1346.4
5/13/2026	2427060	190	1421.2
5/14/2026	2427200	140	1047.2
5/15/2026	2427340	140	1047.2
5/16/2026	2427470	130	972.4
5/17/2026	2427610	140	1047.2
5/18/2026	2427880	270	2019.6
5/19/2026	2427930	50	374
5/20/2026	2428100	170	1271.6
5/21/2026	2428280	180	1346.4
5/22/2026	2428400	120	897.6
5/23/2026	2428540	140	1047.2
5/24/2026	2428690	150	1122
5/25/2026	2428810	120	897.6
5/26/2026	2429000	190	1421.2
5/27/2026	2429190	190	1421.2
5/28/2026	2429320	130	972.4
5/29/2026	2429450	130	972.4
5/30/2026	2429600	150	1122
5/31/2026	2429730	130	972.4
6/1/2026	*2429790*	*60*	*448.8*
6/2/2026	2429890	100	748
6/3/2026	2430050	160	1196.8
6/4/2026	2430220	170	1271.6
6/5/2026	2430340	120	897.6
6/6/2026	2430530	190	1421.2
6/7/2026	2430660	130	972.4
6/8/2026	2430790	130	972.4
6/9/2026	2430940	150	1122

Date	Meter Reading	Cubic Ft	Gallons
6/10/2026	2431140	200	1496
6/11/2026	2431340	200	1496
6/12/2026	2431480	140	1047.2
6/13/2026	2431670	190	1421.2
6/14/2026	2431810	140	1047.2
6/15/2026	2431960	150	1122
6/16/2026	2432110	150	1122
6/17/2026	2432390	280	2094.4
6/18/2026	2432650	260	1944.8
6/19/2026	2432810	160	1196.8
6/20/2026	2432950	140	1047.2
6/21/2026	2433120	170	1271.6
6/22/2026	2433250	130	972.4
6/23/2026	2433410	160	1196.8
6/24/2026	2433570	160	1196.8
6/25/2026	2433740	170	1271.6
6/26/2026	2433920	180	1346.4
6/27/2026	2434050	130	972.4
6/28/2026	2434190	140	1047.2
6/29/2026	2434330	140	1047.2
6/30/2026	2434470	140	1047.2
7/1/2026	2434630	160	1196.8
7/2/2026	2434790	160	1196.8
7/3/2026	2434970	180	1346.4
7/4/2026	2435180	210	1570.8
7/5/2026	2435300	120	897.6
7/6/2026	2435470	170	1271.6
7/7/2026	2435650	180	1346.4
7/8/2026	2435900	250	1870
7/9/2026	2436070	170	1271.6
7/10/2026	2436220	150	1122
7/11/2026	2436370	150	1122
7/12/2026	2436500	130	972.4
7/13/2026	2436650	150	1122
7/14/2026	2436820	170	1271.6
7/15/2026	2437010	190	1421.2
7/16/2026	2437180	170	1271.6
7/17/2026	2437360	180	1346.4
7/18/2026	2437530	170	1271.6
7/19/2026	2437660	130	972.4
7/20/2026	2437840	180	1346.4
7/21/2026	2438010	170	1271.6
7/22/2026	2438190	180	1346.4

Date	Meter Reading	Cubic Ft	Gallons
7/23/2026	2438390	200	1496
7/24/2026	2438560	170	1271.6
7/25/2026	2438710	150	1122
7/26/2026	2438850	140	1047.2
7/27/2026	2438990	140	1047.2
7/28/2026	2439160	170	1271.6
7/29/2026	2439340	180	1346.4
7/30/2026	2439540	200	1496
7/31/2026	2439740	200	1496
ADD - gpd			1279.533
MDD - gpd			3291.2
Peaking Factor			2.572188

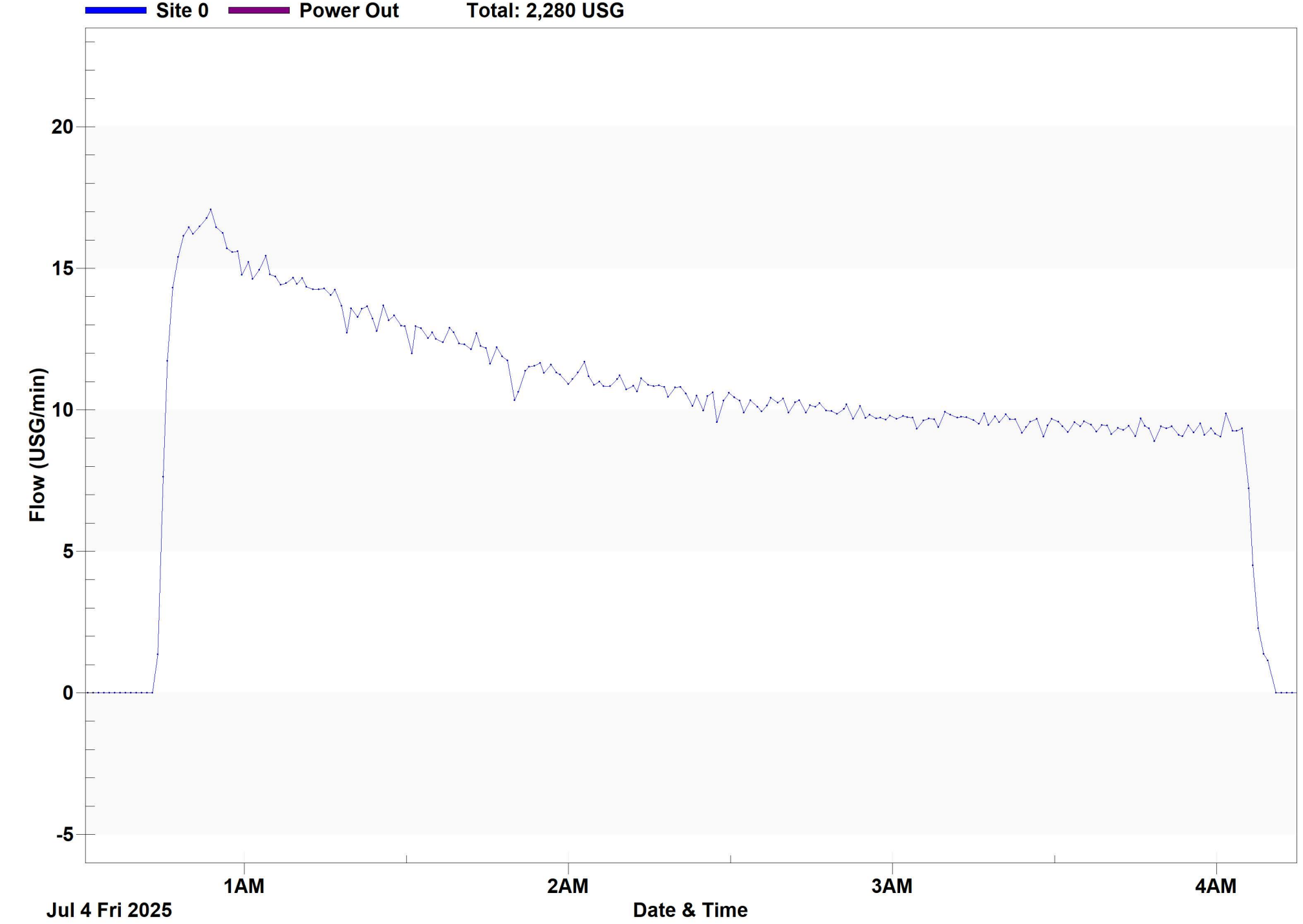
Flows provided are as reported by the system's monthly operating reports (MOR).

Data shown in italics were editted from the reported values in the MOR due ot input error.

APPENDIX C – Typical Pumping Cycle 7/4/2025

Greyline TTFM Data Log 2

From: 6/1/2025 7:24 To Jul 11 2025 12:35



APPENDIX D – Proposed Equipment Cut Sheets



TECHNICAL BROCHURE
B5-25GS R4

FEATURES

Powered for Continuous Operation: All ratings are within the working limits of the motor as recommended by the motor manufacturer. Pump can be operated continuously without damage to the motor.

Field Serviceable: Units have left hand threads and are field serviceable with common tools and readily available repair parts.

Sand Handling Design: Our face clearance, floating impeller stack has proven itself for over 50 years as a superior sand handling, durable pump design.

FDA Compliant Non-Metallic Parts: Impellers, diffusers and bearing spiders are constructed of glass filled engineered composites. They are corrosion resistant and non-toxic.

Discharge Head/Check Valve: Cast 303 stainless steel for strength and durability. Two cast-in safety line loops for installer convenience. The built-in check valve is constructed of stainless steel and FDA compliant BUNA rubber for abrasion resistance and quiet operation.

Motor Adapter: Cast 303 stainless steel for rigid, accurate alignment of pump and motor. Easy access to motor mounting nuts using standard open end wrench.

Stainless Steel Casing: Polished stainless steel is strong and corrosion resistant.

Hex Shaft Design: Six sided shafts for positive impeller drive.

Engineered Polymer Bearings: The proprietary, engineered polymer bearing material is strong and resistant to abrasion and wear. The enclosed upper bearing is mounted in a durable Noryl® bearing spider for excellent abrasion resistance.

5GS, 7GS, 10GS, 13GS, 18GS & 25GS

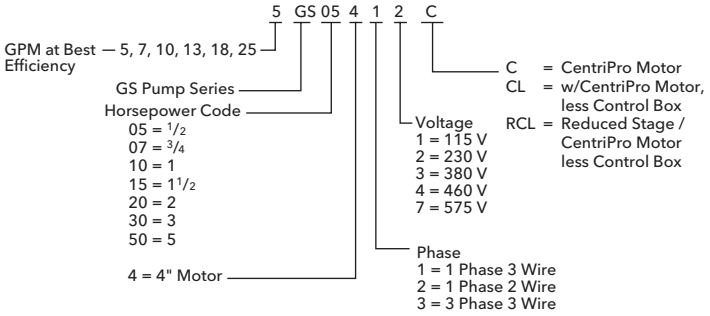
5-25 GPM, ½ – 5 HP, 60 HZ, SUBMERSIBLE PUMPS

GOULDS WATER TECHNOLOGY
a xylem brand

WATER END DATA

Series	Model	Required HP	Stages	Length (in)	Weight (lbs)
5GS	5GS05R	.5	9	12.9	8
	5GS05	.5	12	15.0	9
	5GS07	.75	15	17.0	11
	5GS10	1	20	21.7	13
	5GS15	1.5	26	25.8	15
	5GS20	2	33	31.6	19
7GS	7GS05R	.5	7	11.7	6
	7GS05	.5	10	13.8	7
	7GS07	.75	13	16.0	8
	7GS10	1	17	18.8	9
	7GS15	1.5	22	23.6	12
	7GS20	2	27	27.2	13
	7GS30	3	34	33.2	18
10GS	10GS05R	.5	5	10.1	6
	10GS05	.5	7	11.5	7
	10GS07	.75	10	13.6	8
	10GS10	1	12	15.0	9
	10GS15	1.5	17	18.4	12
	10GS20	2	20	21.7	13
	10GS30	3	27	27.5	18
	10GS50R	5	35	33.0	21
	10GS50	5	42	40.2	24
13GS	13GS05	.5	5	10.1	6
	13GS07	.75	7	11.5	7
	13GS10	1	10	13.6	8
	13GS15	1.5	12	15.0	9
	13GS20	2	17	18.4	12
	13GS30	3	21	22.3	15
18GS	18GS07	.75	6	11.8	7
	18GS10	1	8	13.5	8
	18GS15	1.5	11	16.1	10
	18GS20	2	14	18.6	11
	18GS30	3	19	24.1	15
	18GS50R	5	24	28.3	17
	18GS50	5	30	34.4	21
25GS	25GS10	1	7	13.4	8
	25GS15	1.5	9	15.3	9
	25GS20	2	11	17.2	10
	25GS30	3	15	20.9	14
	25GS50R	5	22	28.7	17
	25GS50	5	26	33.4	21

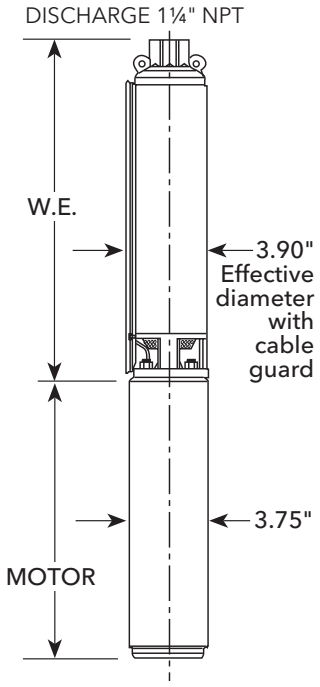
NOMENCLATURE See price book for complete order numbers.



"GS" SERIES MATERIALS OF CONSTRUCTION

Part Name	Material
Discharge Head	AISI 303 SS
Check Valve Poppet	AISI 304 SS
Check Valve Seal	BUNA, FDA compliant
Check Valve Seat	AISI 304 SS
Check Valve Retaining Ring	AISI 302 SS
Bearing Spider - Upper	Noryl® GFN2
Bearing	Proprietary Engineered Polymer
Klipring	AISI 301 SS
Diffuser	Lexan®
Impeller	Noryl®
Bowl	AISI 304 SS
Intermediate Sleeve *	AISI 304 SS, Powder Metal
Intermediate Shaft Coupling *	AISI 304 SS, Powder Metal
Intermediate Bearing Spider *	Glass Filled Engineered Composite
Intermediate Bearing Spider *	AISI 303 SS
Shim	AISI 304 SS
Screws – Cable Guard	AISI 304 SS
Motor Adapter	AISI 303 SS
Casing	AISI 304 SS
Shaft	
Coupling	AISI 304 SS, Powder Metal
Cable Guard	AISI 304 SS
Suction Screen	AISI 304 SS

*See repair parts for where used.



SPECIFICATIONS

Model	Flow Range GPM	Horsepower Range	Best Efficiency GPM	Discharge Connection	Minimum Well Size	Rotation①
5GS	1.2 – 7.5	½ – 2	5	1¼	4"	CCW
7GS	1.5 – 10	½ – 3	7	1¼	4"	CCW
10GS	3 – 16	½ – 5	10	1¼	4"	CCW
13GS	4 – 20	½ – 3	13	1¼	4"	CCW
18GS	6 – 28	¾ – 5	18	1¼	4"	CCW
25GS	8 – 33	1 – 5	25	1¼	4"	CCW

① Rotation is counterclockwise when observed from pump discharge end.

CENTRIPRO 4" SINGLE-PHASE MOTORS

Order No.	Type	HP	Volts	Length in. (mm)	Weight lb. (kg.)
M05421	2-wire PSC	½	115	11.0 (279)	20 (9.1)
M05422		½	230	11.0 (279)	20 (9.1)
M07422		¾		12.4 (314)	23 (10.4)
M10422		1		13.3 (337)	25 (11.3)
M15422		1.5		14.9 (378)	29 (13.2)
M05411	3-wire	½	115	10.0 (253)	19 (8.6)
M05412		½	230	9.7 (246)	18 (8.2)
M07412		¾		10.8 (275)	22 (10)
M10412		1		11.7 (297)	23 (10.4)
M15412		1.5		13.6 (345)	28 (12.7)
M20412		2		15.1 (383)	31 (14.1)
M30412		3		18.3 (466)	40 (18.1)
M50412		5		27.7 (703)	70 (31.8)

NEMA MOTOR

- Corrosion resistant stainless steel construction.
- Built-in surge arrestor is provided on single phase motors through 5 HP.
- Stainless steel splined shaft.
- Hermetically sealed windings.
- Replaceable motor lead assembly.
- NEMA mounting dimensions.
- Control box is required with 3 wire single phase units.
- Three phase units require a magnetic starter with three leg Class 10 overload protection.

CENTRIPRO 4" THREE-PHASE MOTORS

Order No. by Voltage			HP	Length in. (mm)	Weight lb. (kg.)
200V	230V	460V			
M05430	M05432	M05434	½	10.8 (275)	22 (9.7)
M07430	M07432	M07434	¾	10.8 (275)	22 (9.7)
M10430	M10432	M10434	1	11.7 (297)	23 (10.4)
M15430	M15432	M15434	1.5	11.7 (297)	23 (10.4)
M20430	M20432	M20434	2	13.8 (351)	28 (12.7)
M30430	M30432	M30434	3	15.3 (389)	32 (14.5)
M50430	M50432	M50434	5	21.7 (550)	55 (24.9)
M75430	M75432	M75434	7.5	27.7 (703)	70 (1.8)

Order No.	HP	Volts	Length in. (mm)	Weight lb. (kg.)
M15437	1.5	575	11.7 (297)	23 (10.4)
M20437	2		15.3 (389)	32 (14.5)
M30437	3		15.3 (389)	32 (14.5)
M50437	5		27.7 (703)	70 (31.8)
M75437	7.5		27.7 (703)	70 (31.8)

AGENCY LISTINGS

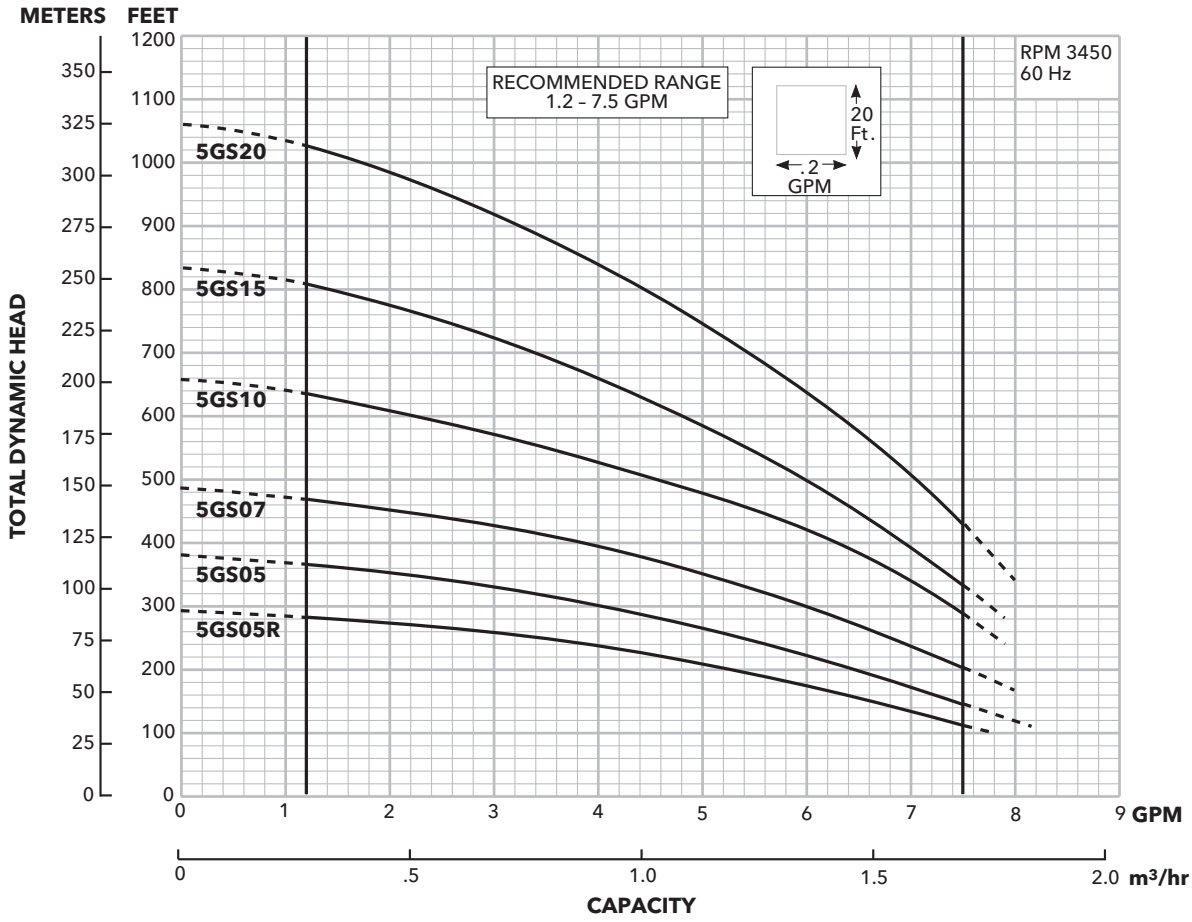
Pump/Water End and CentriPro Motor - tested to UL778 and CAN 22.2 by CSA International (Canadian Standards Association)

CentriPro Motor - Certified to NSF/ANSI 61, Annex G, Drinking Water System Components 4P49

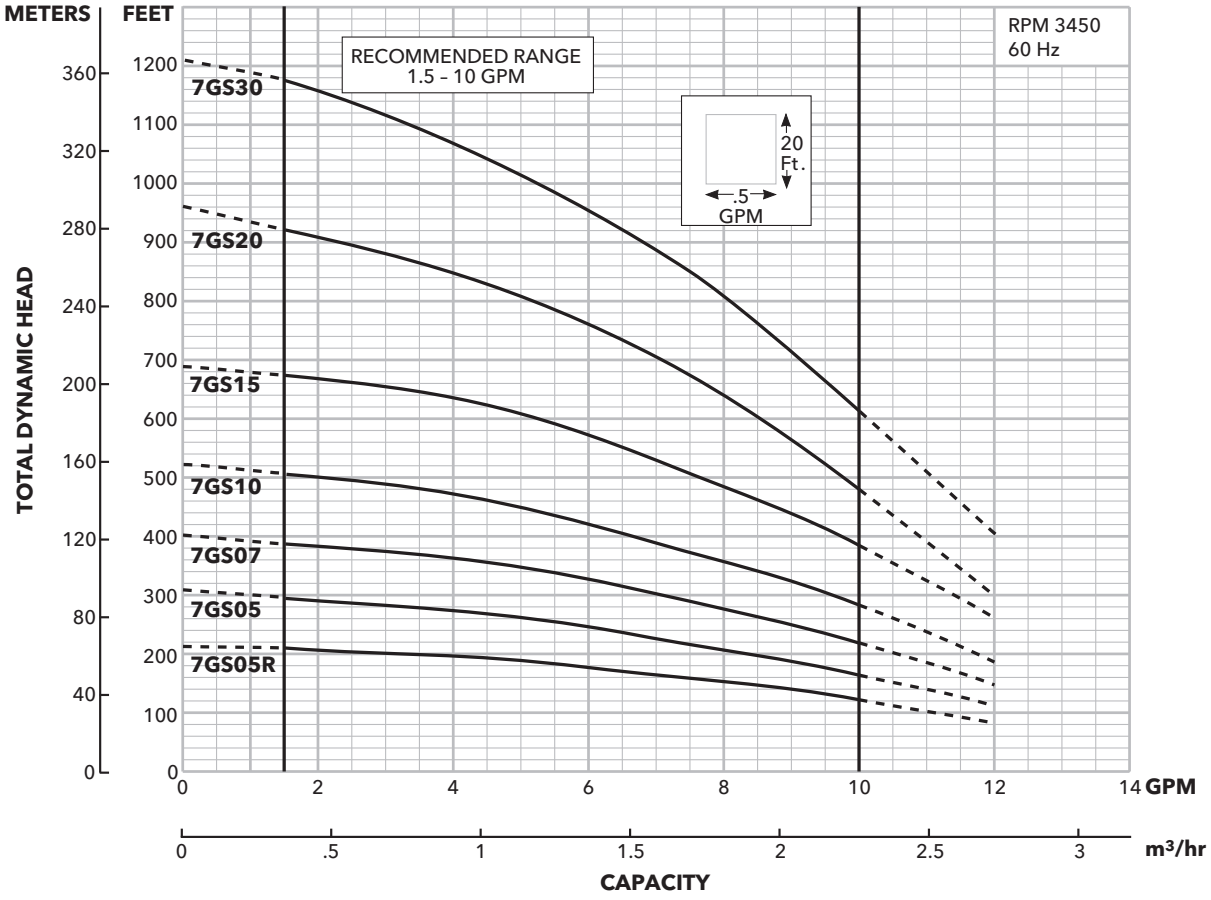
NSF/ANSI 372 – Drinking Water System Components – Lead Content

CLASS 6853 01 - Low Lead Content Certification Program - - Plumbing Products

Model 5GS

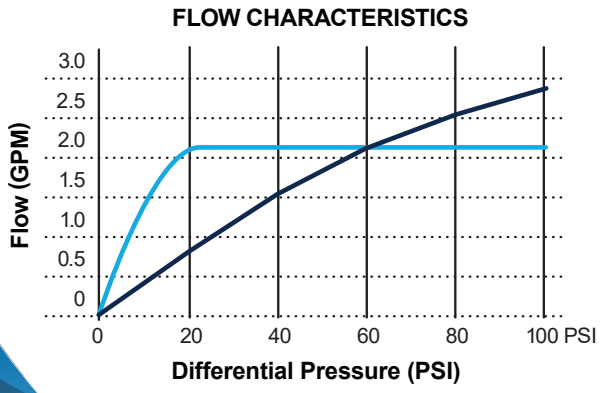


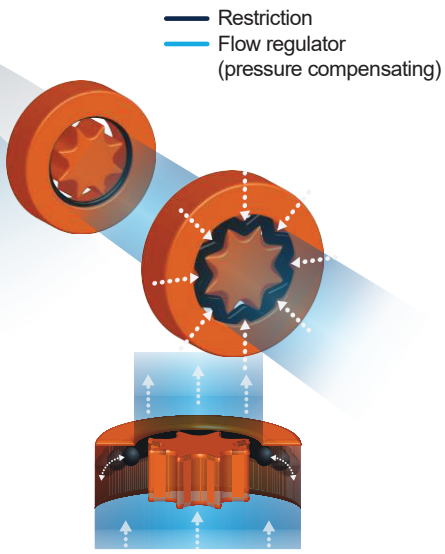
Model 7GS



SureFLO™

FLOW CONTROL VALVES





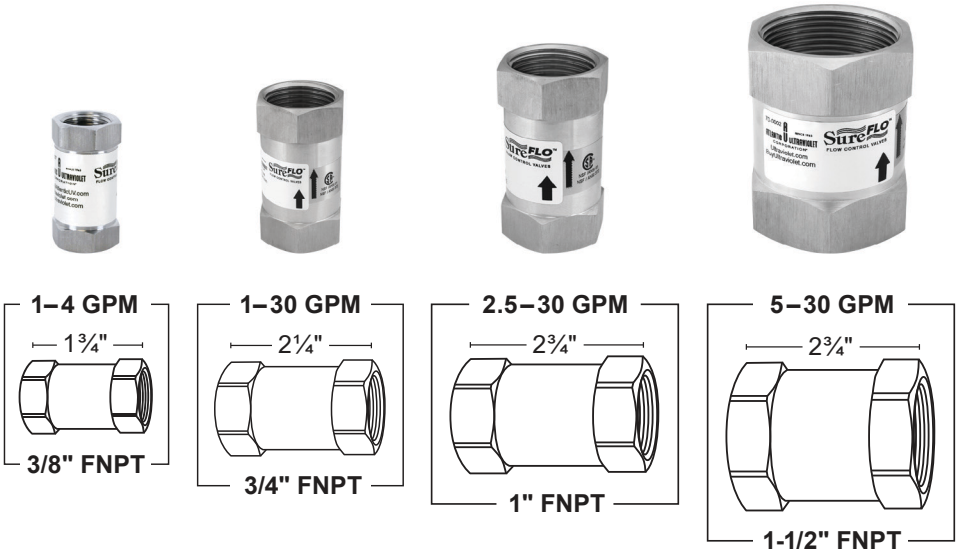
WORKING PRINCIPLE
Flow regulators are used to maintan a defined flow rate regardless of pressure variations of the supply line. Precise flow control improves system performance and in the case of plumbing systems, it provides comfort of use at low pressure as well as water and energy saving at high pressure. When there is no flow or pressure, the O-Ring is relaxed. When there is normal pressure, the O-Ring subjected to the line pressure is compressed into the seating area. As the pressure increases, the O-Ring is compressed further into the seating area. As the pressure decreases, the O-Ring relaxes. Since the flow rate for a given orifice changes to the square root of delta P, the O-Ring deformation is equal to this thus giving a constant flow over a wide range of pressure variations.

FLOW TOLERANCE refers to the deviation from Nominal Flow tolerated across the pressure range once the threshold pressure is reached. In general the flow tolerance is +/15%.

WORKING CONDITIONS refers to the usual parameters of the application such as medium (usually drinking water), pressure range (usually 0 to 150 PSI) and temperature range (usually 40 to 150°F).

THRESHOLD PRESSURE refers to the pressure at which the flow regulator effectively begins controlling the flow. Standard regulators begin controlling at 15 PSI.

304 Stainless Steel Models & Specifications



Certified to NSF®/ANSI 61 & 372

Drinking water
NSF®/ANSI 61
NSF®/ANSI 372 LLC

Flow Rate (GPM)	Fitting Size (FNPT)	Part No.
1.5	3/8"	27-0082
6	3/4"	27-0095
9	1"	27-0084
12	1"	27-1212
15	1-1/2"	27-1213
20	1-1/2"	27-1220
25	1-1/2"	27-0094
30	1-1/2"	27-1030

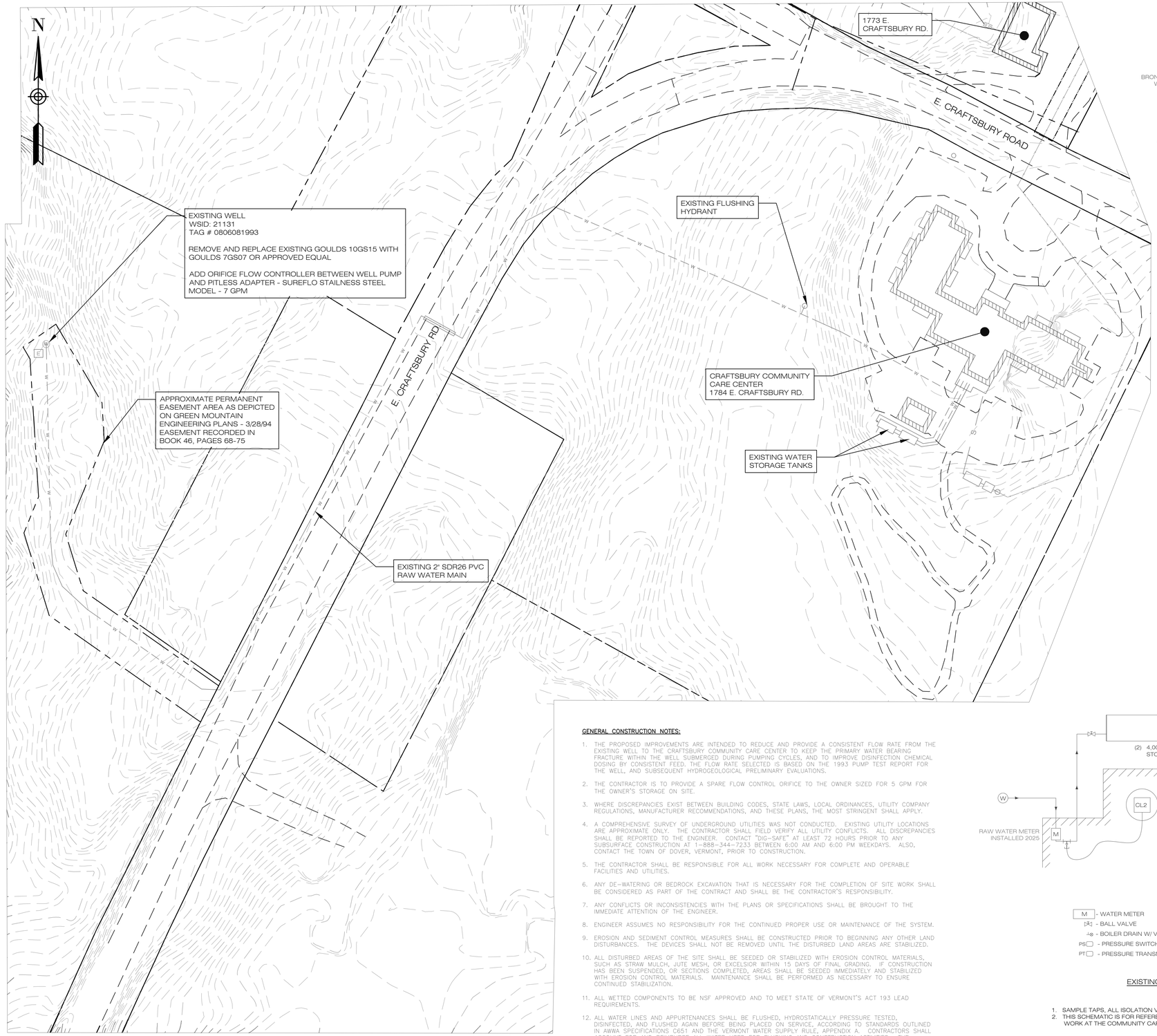
More flow rates available. Contact factory.

The information and recommendations contained in this publication are based upon data collected by the Atlantic Ultraviolet Corporation® and are believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Specifications and information are subject to change without notice.

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SINCE 1963
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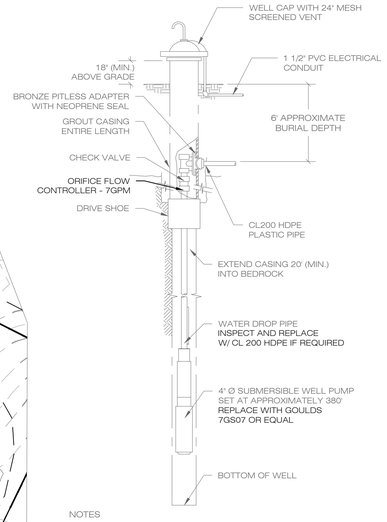
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft.

SITE PLAN
SCALE: 1" = 50'



NOTES

1. THE DRILLED WELL IS EXISTING AND THE DETAIL ABOVE IS BASED ON STANDARD CONSTRUCTION ASSUMPTIONS AND REPORTS PROVIDED BY THE OWNER.
2. POWER FEED FOR THE PROPOSED WELL PUMP SHALL BE ADJUSTED AS NECESSARY BY THE WELL CONTRACTOR AND/OR A LICENSED ELECTRICIAN.

DRILLED WELL CONSTRUCTION
NOT TO SCALE



LOCATION MAP - CRAFTSBURY, VT
1" = 500'

LEGEND

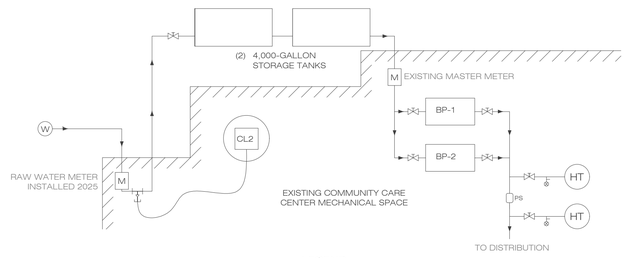
- EDGE OF DRIVE
- EXISTING MINOR CONTOUR
- 100 EXISTING MAJOR CONTOUR
- S EXISTING SEWER PIPE
- w EXISTING WATER PIPE
- ohw OVERHEAD ELECTRIC
- FM EXISTING FORCE MAIN
- APPROX. PROPERTY BOUNDARY
- EXISTING WATER SHUT OFF
- UTILITY POLE
- E ELECTRICAL PANEL OR METER
- w PROPOSED WATER
- PROPOSED WATER SHUT OFF

STATE OF VERMONT · STANLEY WELCH · No. 134121 · REGISTERED PROFESSIONAL ENGINEER

8/31/2026

GENERAL CONSTRUCTION NOTES:

1. THE PROPOSED IMPROVEMENTS ARE INTENDED TO REDUCE AND PROVIDE A CONSISTENT FLOW RATE FROM THE EXISTING WELL TO THE CRAFTSBURY COMMUNITY CARE CENTER TO KEEP THE PRIMARY WATER BEARING FRACTURE WITHIN THE WELL SUBMERGED DURING PUMPING CYCLES, AND TO IMPROVE DISINFECTION CHEMICAL DOSING BY CONSISTENT FEED. THE FLOW RATE SELECTED IS BASED ON THE 1993 PUMP TEST REPORT FOR THE WELL, AND SUBSEQUENT HYDROGEOLOGICAL PRELIMINARY EVALUATIONS.
2. THE CONTRACTOR IS TO PROVIDE A SPARE FLOW CONTROL ORIFICE TO THE OWNER SIZED FOR 5 GPM FOR THE OWNER'S STORAGE ON SITE.
3. WHERE DISCREPANCIES EXIST BETWEEN BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS, MANUFACTURER RECOMMENDATIONS, AND THESE PLANS, THE MOST STRINGENT SHALL APPLY.
4. A COMPREHENSIVE SURVEY OF UNDERGROUND UTILITIES WAS NOT CONDUCTED. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONFLICTS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. CONTACT "DIG-SAFE" AT LEAST 72 HOURS PRIOR TO ANY SUBSURFACE CONSTRUCTION AT 1-888-344-7233 BETWEEN 6:00 AM AND 6:00 PM WEEKDAYS. ALSO, CONTACT THE TOWN OF DOVER, VERMONT, PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY FOR COMPLETE AND OPERABLE FACILITIES AND UTILITIES.
6. ANY DE-WATERING OR BEDROCK EXCAVATION THAT IS NECESSARY FOR THE COMPLETION OF SITE WORK SHALL BE CONSIDERED AS PART OF THE CONTRACT AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
7. ANY CONFLICTS OR INCONSISTENCIES WITH THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
8. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE CONTINUED PROPER USE OR MAINTENANCE OF THE SYSTEM.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. THE DEVICES SHALL NOT BE REMOVED UNTIL THE DISTURBED LAND AREAS ARE STABILIZED.
10. ALL DISTURBED AREAS OF THE SITE SHALL BE SEEDED OR STABILIZED WITH EROSION CONTROL MATERIALS, SUCH AS STRAW MULCH, JUTE MESH, OR EXCELSIOR WITHIN 15 DAYS OF FINAL GRADING. IF CONSTRUCTION HAS BEEN SUSPENDED, OR SECTIONS COMPLETED, AREAS SHALL BE SEEDED IMMEDIATELY AND STABILIZED WITH EROSION CONTROL MATERIALS. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
11. ALL WETTED COMPONENTS TO BE NSF APPROVED AND TO MEET STATE OF VERMONT'S ACT 193 LEAD REQUIREMENTS.
12. ALL WATER LINES AND APPURTENANCES SHALL BE FLUSHED, HYDROSTATICALLY PRESSURE TESTED, DISINFECTED, AND FLUSHED AGAIN BEFORE BEING PLACED ON SERVICE, ACCORDING TO STANDARDS OUTLINED IN AWWA SPECIFICATIONS C651 AND THE VERMONT WATER SUPPLY RULE, APPENDIX A. CONTRACTORS SHALL ACCOUNT FOR AND REIMBURSE ALL WATER USED FOR FLUSHING AND CONSTRUCTION ACTIVITIES. THE LONGEST LENGTH OF TEST PIPE SHALL BE 1000 FEET.



LEGEND

- M - WATER METER
- - BALL VALVE
- - BOILER DRAIN W/ VACUUM BREAKER
- PS - PRESSURE SWITCH
- PT - PRESSURE TRANSMITTER
- W - DRILLED WELL
- BP1 - BOOSTER PUMP 1
- BP2 - BOOSTER PUMP 2
- HT - HYDRO-PNEUMATIC TANK

EXISTING WATER SYSTEM SCHEMATIC
NO SCALE

1. SAMPLE TAPS, ALL ISOLATION VALVES, AND HOT WATER SOFTENER NOT SHOWN FOR CLARITY.
2. THIS SCHEMATIC IS FOR REFERENCE ONLY. THE PROJECT DOES NOT PROPOSED ANY INTERNAL WORK AT THE COMMUNITY CARE CENTER.

PERMITTING PLANS

Tailwater Engineering
802.249.4210 | brad@tailwaterengineeringvt.com
149 Gilman Street, Marshfield, VT 05658

PLAN DATE: 8/31/2026		SHEET C1	1 OF 3
		TWE JOB# 26-002	

NO.	DATE	DESCRIPTION	BY

CCCC WELL PUMP IMPROVEMENTS

SITE PLAN & DETAILS

LANDOWNER & PARCEL ADDRESS

CRAFTSBURY COMMUNITY CARE CENTER
1784 E. CRAFTSBURY RD., CRAFTSBURY, VT 05826

GRANT OF EASEMENT

KNOW ALL MEN BY THESE PRESENTS that **JOAN D. FULLER and ALFRED W. FULLER** of Craftsbury, in the County of Orleans and the State of Vermont (hereinafter, the "Grantors"), for One Dollar and 00/100 ($1.00) and other good and valuable consideration paid, the receipt and sufficiency of which are hereby acknowledged, hereby grant to **CRAFTSBURY COMMUNITY CARE CENTER, INC.**, a not for profit corporation, duly organized and existing under the laws of the State of Vermont and having a place of business in Craftsbury, Vermont 05826 (hereinafter, the "Grantee"), with QUITCLAIM COVENANTS only, two easements in Craftsbury, in the County of Orleans and the State of Vermont, described as follows:

Being two easements, consisting of a Permanent Easement and a Temporary Easement, located on certain lands and premises that were conveyed to the Grantors in two deeds dated October 4, 1986 and July 1, 1990 and recorded in the Craftsbury Land Records in Book 38, Pages 538-540 and Book 42, Pages 83-91, respectively, described as follows:

The Permanent Easement Limits and the Temporary Easement Limits referred to below are shown on a plan (the "Plan") entitled "Water Well Site and Easement Plan Craftsbury Community Care Center" by Green Mountain Engineering; the Plan bears drawing number 1 sheet 1 of 4, project number 2-003, and the Plan is dated February 11, 1994.

Easement No. 1 - The Permanent Easement: A perpetual, permanent and exclusive right and easement to drill, expand, redrill and replace a well (collectively the "Well") within the Permanent Easement Limits and to take water from the Well, together with the non-exclusive right to enter upon the Permanent Easement Limits, and together with the exclusive right to use, maintain, inspect, repair, alter, install, lay, operate, improve and replace water lines, utility lines necessary for the operation of the well and the Facilities, and outlets now or hereafter existing within the Permanent Easement Limits, and all appurtenances, fittings, and equipment necessary or related thereto (collectively called the "Facilities"). The word "sub-surface" as used herein shall mean below-ground, up to and including the surface area, but not above the surface area, within the Permanent Easement Limits. The land encumbered by this perpetual and exclusive right and easement being more particularly described as a circular parcel of land ~~200~~ 390 feet in diameter located on the Grantor's property westerly of the lands now or formerly of one Lussier, southerly of the lands now or formerly of one Reeder and one DeGoosh and easterly of the lands now or formerly of one Dunbar as shown on the Plan, and a rectangular parcel of land 40 feet wide and 265 feet long, the centerline of which runs in a generally southerly and then southeasterly direction from the southerly perimeter of the circular parcel of land to State Aid Highway #2; and

Easement No. 2 - The Temporary Easement: A temporary right and easement 70 feet wide within the area shown as "Temporary Easement Limits" as shown on the Plan, which temporary right and easement will expire upon the final completion of the construction and installation of the Facilities and the Well. The temporary easement shall be used solely for the purpose of storage of construction materials, equipment, stockpiling of materials, and access to and from the Permanent Easement Limits to be used in connection with the construction thereof.

GRANTORS HEREBY EXCEPT AND RESERVE UNTO THEMSELVES AND THEIR HEIRS, SUCCESSORS AND ASSIGNS THE FOREGOING FROM THIS GRANT: The Grantors reserve the right to use the surface and above-surface portions of the Easement Area, for any and all purposes including but not limited to horseback riding, and in all manners as if the easement did not exist, provided that such use, (a) shall comply with all regulations, federal, state and local, affecting drinking water supplies, (b) shall not interfere with Grantee's right and ability to take water from the Well located on the Easement Area, and (c) shall not interfere with the safe and efficient operation of the Facilities together with the Grantee's right to use, maintain, inspect, repair, alter, install, lay, operate, improve and replace the Facilities.

THIS EASEMENT IS GRANTED TOGETHER WITH THE FOLLOWING RIGHTS AND SUBJECT TO THE FOLLOWING OBLIGATIONS:

1. The right on the part of the Grantee to pass over, across and upon the Permanent Easement Limits as reasonable and necessary in the reasonable opinion of the Grantee in order to exercise its permanent and perpetual rights hereunder and subject to the provisions of this Agreement.

2. The exclusive right, within the Permanent Easement Limits, to make such excavations including the drilling of the Well, and to take water therefrom, and to place water pipes leading from the Well to the Grantee's facility as are reasonable and necessary in the reasonable opinion of the Grantee in order to exercise its rights hereunder, all at Grantee's sole expense and after the obtaining of all proper permits, provided the Grantee shall, except in case of emergency, give prior notice to the Grantors or their successors in title of any excavation or other work which may disrupt the surface of the Permanent Easement Limits. All major maintenance work within the Permanent Easement Limits shall be performed in strict conformity with final plans and specifications approved by the Grantors (which approval shall not unreasonably be withheld) and in accordance with such reasonable terms and conditions as the Grantors shall require for the purpose of protecting their premises. The Grantee shall perform all work hereunder in a workmanlike, safe and efficient manner and shall permit no excavation to remain open without proper safeguard, nor for any period longer than necessary for the performance of such work. Upon completion of any such excavation or other work, the surface of such Permanent Easement Limits will be filled and to the extent reasonably practicable shall be restored to its former condition.

3. While exercising any rights granted herein, the Grantee shall at all times maintain such enclosures, provide such security and take such other action as shall be necessary to ensure the safety of the water supply, its fixtures and the premises on which it is located.

4. The Grantee hereby agrees to defend, indemnify and hold the Grantors and their agents, employees, and all those claiming by, through or under the Grantors harmless from and against any and all claims, demands, actions, rights of action, damages, liabilities and expenses arising out of any contractual right or remedy, injury to persons or property, or any other liability or claims of any nature whatsoever, including amounts paid in satisfaction of judgment, in compromise, or as fines or penalties, and reasonable counsel fees that the Grantors incur by reason of the installation, use or maintenance of the Facilities within the Permanent Easement Limits, or relating to the quality or quantity of water or otherwise, and the Grantors shall not be liable for any contamination to or lack of potability of the water, including personal injury or otherwise, whether caused by the Grantors' use of their premises or otherwise, and the Grantee shall have exclusive control over the Well and Facilities during the term of this Agreement and be solely responsible for the quality of the water and shall, at least quarterly or more frequently as required by the State of Vermont, have the water tested to insure its potability. The Grantee shall, at its own expense, maintain casualty and liability insurance in such reasonable amounts as the parties may agree to insure the protection provided to the Grantors herein, shall have the Grantors and their successors and assigns named therein as additional insureds as their interests may appear, and shall provide Grantors with a certificate of insurance thereof annually.

5. So long as the Grantee or any successor to it remains a non-profit organization, no fee shall be charged for the easements herein conveyed or for the amount of water used. If the Grantee or any successor to it becomes a for profit organization, such organization may continue to use the Well for a reasonable annual fee payable in advance, which fee shall be determined by the Grantors and shall not exceed charges made for the similar use of water in the Craftsbury, Vermont area. In either event the Grantee or any successor to it shall pay any real estate taxes assessed to the Grantors by reason of the Well being drilled

and other improvements being made in connection therewith by the Grantee on the Grantors' property.

6. If the Grantee or any successor to it abandons the Well, the easement herein shall revert to the Grantors and any successors to them. The Grantee and any successors to it shall not withdraw water from the Well at a rate in excess of 12,500 gallons per day and if the Grantee or any successor to it does withdraw water from the Well at such an excessive rate and such withdrawal continues for a period of thirty days after notice thereof from the Grantors, the Grantors shall be entitled to appropriate equitable relief to enforce the provisions of this Grant of Easement with respect to such withdrawal rate. The Grantors shall have the right periodically to test the rate of withdrawal of water from the Well at such time and place as is mutually convenient to the Grantors and the Grantee. The Grantee shall install a water meter at the outlet of the Well and provide quarterly reports of such water usage to the Grantors.

7. Nothing herein contained shall permit the Grantee to utilize the Well for any purposes whatsoever without first obtaining all necessary permits for its use from all federal, state or local authorities and regulatory bodies and, thereafter, complying fully with the same as they may be amended from time to time.

8. If the Grantors or any successor to them can demonstrate through testing conducted by a certified professional engineer and hydrologist that the withdrawal of water allowed by this easement materially depletes the Grantors' water supply, the Grantee shall agree to undertake any reasonable water conservation measure recommended by the Grantors, and will allow the Grantors to withdraw water from the Well so long as the State of Vermont will allow it.

9. Notwithstanding any other provisions of this Grant, the rights, liabilities, agreements and other obligations as set forth herein shall inure to the benefit of and be binding upon the Grantors, their successors and assigns and all persons claiming by, through or under them, but only during the

respective periods of ownership of the fee on which the Permanent Easement Limits is located, and shall likewise inure to the benefit of and be binding upon the Grantee, its successors and assigns and all persons claiming by, through or under it, but only during the respective periods of ownership of the Easement.

Whenever, by the term of this instrument, notices shall or may be given either to the Grantors or to the Grantee, such notices shall be deemed to have been given if in writing and either delivered by hand or if by United Stated certified or registered mail, postage prepaid, return receipt requested.

This Easement Agreement shall become effective when recorded in the Town of Craftsbury Land Records.

IN WITNESS WHEREOF, the parties have caused this Agreement to be sealed and subscribed as of the 29th day of March, 1994.

Witness to All

Joan D. Fuller, Grantor

Witness to All

Alfred W. Fuller, Grantor

Craftsbury Community Care Center, Inc., Grantee

By: Active Pres
Duly authorized agent

STATE OF VERMONT
COUNTY OF ORLEANS, SS.

At Craftsbury in said County and State this 29th day of March, 1994, personally appeared **Alfred W. Fuller and Joan D. Fuller**, who acknowledged themselves to be the signers of the foregoing instrument, and acknowledged the same to be their free act and deed, before me,

Notary Public

My commission expires: 2-10-95