



August 29, 2022

Ms. Rachel K. Savarie, PE  
New York State Department of Environmental Conservation (NYSDEC)  
625 Broadway  
Albany, New York 12233-7014

**Re: Monitoring Well Decommissioning Report  
Former Union Fork & Hoe Site  
253 East Main Street  
Frankfort, New York 13340  
NYSDEC Site No. 6-2-011  
Tetra Tech Project #194-1197-0002**

Dear Rachel:

On behalf of AMES Companies, Tetra Tech, Inc. (Tetra Tech) has completed the decommissioning of 15 monitoring wells in accordance with New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation *CP-43: Groundwater Monitoring Well Decommissioning Policy, November 2009*. These wells were either damaged or not part of the routine sampling program (last sampled in 2013). This letter summarizes monitoring well decommissioning activities.

## **SITE BACKGROUND**

The former Union Fork & Hoe (UFH) facility is located at 253 East Main Street in Frankfort, New York. As shown in **Figure 1**, the Site is approximately rectangular in shape, and bounded by East Orchard Street to the northwest, East Main Street to the southwest, residential and commercial uses to the northwest, a former railroad easement on the northeast side, and industrial and commercial uses on the southeast side. The Site was historically used for manufacturing of hoes, shovels, forks and other hand tools by Union Tools (purchased by Ames True Temper in 2006) for more than 100 years. Manufacturing processes conducted at the Site included forging, stamping, painting, varnishing and milling. Operations ceased in December 2006 and all remaining Site buildings were demolished in 2012.

## **WELL DECOMMISSIONING**

The decommissioning method to be employed was Grouting In-Place, as described in Section 2.1 of CP-43. The wells were abandoned by pulling the casing and grouting via tremie pipe with a cement/bentonite mix into the well, from the bottom up. The well decommissioning was conducted by Cascade Environmental (a licensed NY driller) and overseen by geologists from Tetra Tech. The wells that were decommissioned are discussed below and are shown on **Figure 2**.

**Tetra Tech, Inc**

One Oxford Valley, Suite 200A, Langhorne, PA 19047  
Tel (215)-702-4000 | Fax (215) 702-4045 | [www.tetrattech.com](http://www.tetrattech.com)

On June 28, 2021, the following wells were decommissioned:

- 22-SB-02, DEC-DW-01, DEC-SW-05 and DEC-IW-02.

On June 29, 2021, the following wells were decommissioned:

- DEC-SW-13, DEC-DW-02, 212-SB-02, 214-SB-4 and DEC-IW-01.

On July 19, 2022, the following off-site wells and one on-site well were decommissioned:

- DEC-SW-09, DEC-SW-04, MW-101D, 215-SB-03, DEC-IW-04 and MW-103D.

Of the remaining wells planned for decommissioning, one well (DEC-SW-02) is beneath a pile of debris and could not be accessed, one well (DEC-SW-12) was determined to have been previously decommissioned, and five wells (OW-07, OW-06, RW-2, OW-05, and OW-04) are located beneath the site cover and are not accessible.

See **Attachment 1** for the Monitoring Well Closure Logs.

Thank you for the opportunity to support the monitoring well decommissioning work. Please feel free to contact me at (973) 630-8132 or via email at [Robert.Cantagallo@tetrattech.com](mailto:Robert.Cantagallo@tetrattech.com), should you have questions or require additional information.

Sincerely,

**Tetra Tech, Inc.**



Robert Cantagallo, CHMM  
Senior Project Manager

CC: Mr. David Sweet, Griffon Corporation  
Mr. Arul Ayyaswami, Tetra Tech

Enclosures

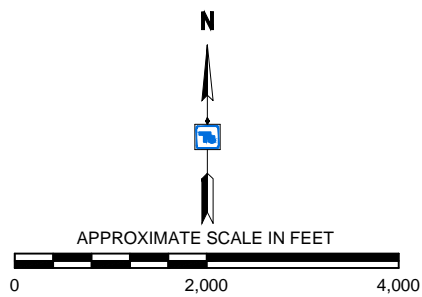
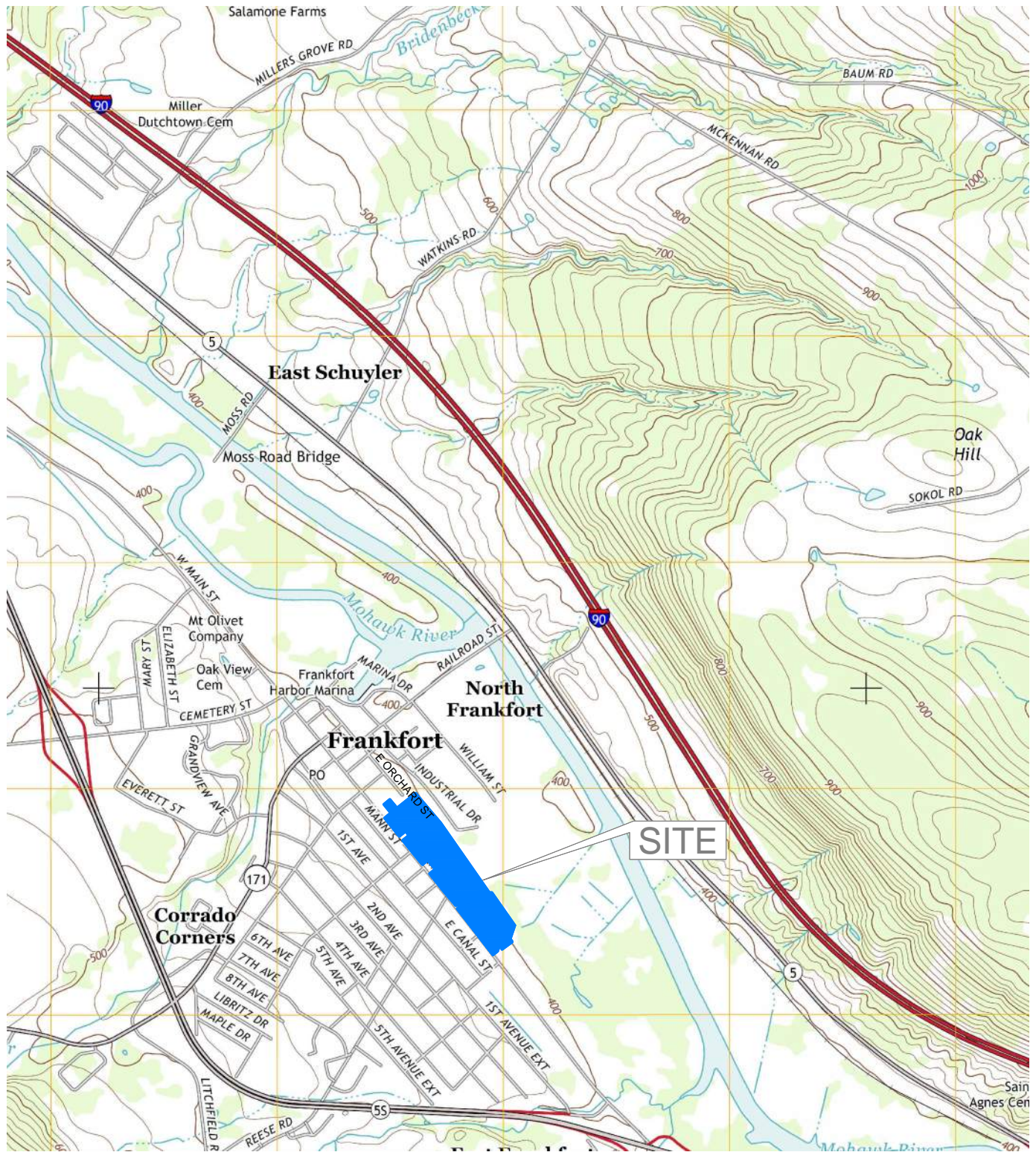
Figure 1 – Site Location Map

Figure 2 – Monitoring Wells Plan

Attachment 1 – Monitoring Well Closure Logs




P:\5382-Griffon - Frankfort NY\CAD\FIGURE I - SITE LOCATION.dwg Sep 29, 2015 - 5:08pm rick.ikemoto



FORMER UNION FORK AND HOE FACILITY  
**SITE LOCATION MAP**  
 253 EAST MAIN STREET FRANKFORT, NEW YORK

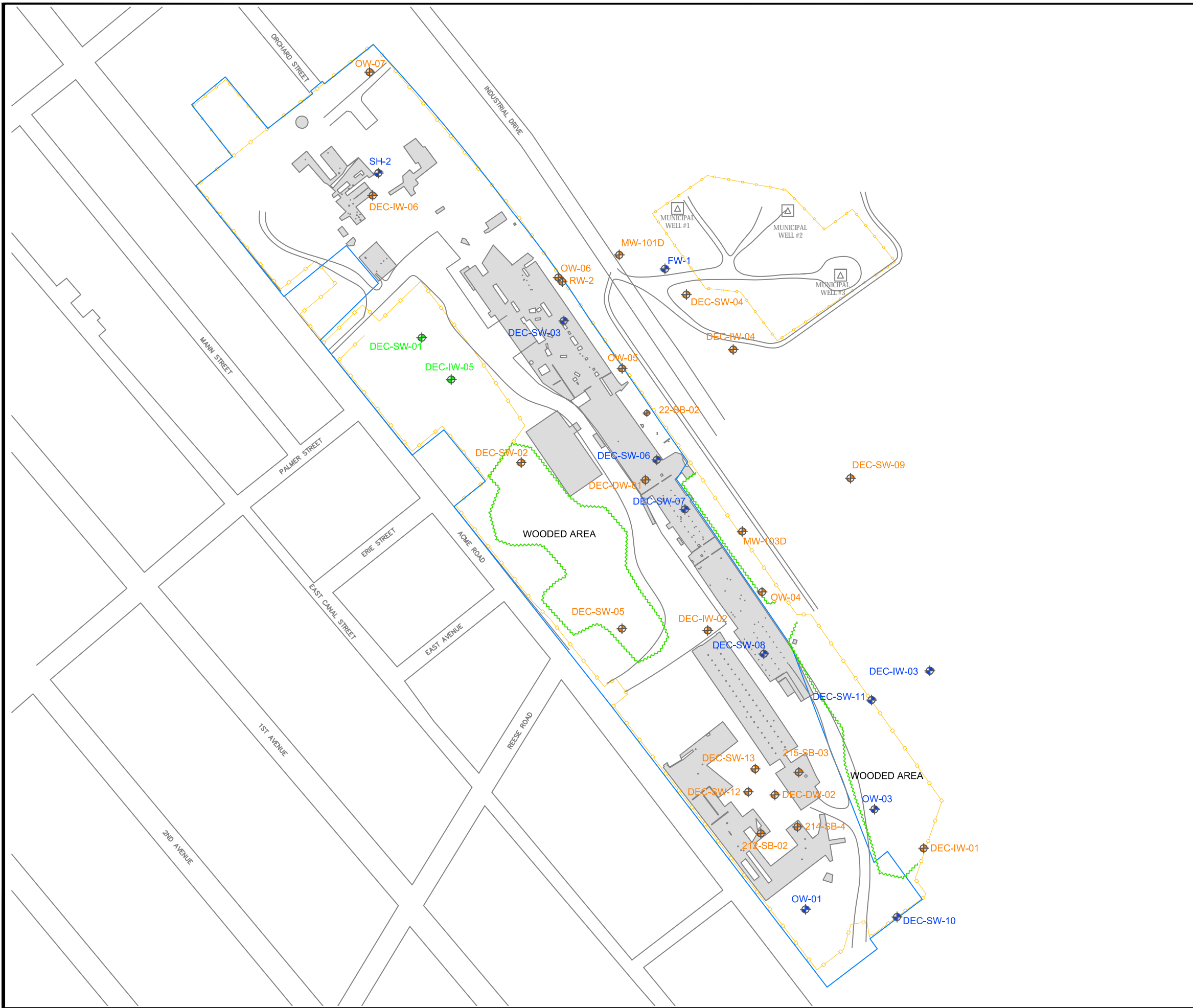
PREPARED BY:  
**TETRA TECH, INC.**



PROJECT NUMBER	APPROVED BY	DRAWN BY	DATE	FIGURE
194-7317	GN	WRI	JULY 2020	<b>1</b>

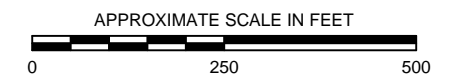
SOURCE: THE USGS STORE; ILION, NY, QUADRANGLE; 2013





**LEGEND**

- PROPERTY BOUNDARY
- FENCE LINE
- TREE LINE
- △ MUNICIPAL WELL
- EXISTING CONCRETE PAD
- WELL ID WELL LOCATION
- WELL ID WELLS PROPOSED TO BE ABANDONED
- WELL ID WELLS ABANDONED IN 2019




**NOTES:**

1. ALL LOCATIONS ARE APPROXIMATE.

**SOURCES:**

1. BASE MAP FROM BRADBURNE, BRILLER & JOHNSON, LLC (2011).
2. SITE BOUNDARY FROM "REAL PROPERTY TAX MAP", PREPARED FOR COUNTY OF HERKIMER UNDER SUPERVISION OF ASSESSMENT AND REAL PROPERTY TAX SERVICE, JAMES SPANFELNER, DIRECTOR. PREPARED BY L. ROBERT KIMBALL, CONSULTING ENGINEERS, EBENSBURG, PA.

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FORMER UNION FORK AND HOE FACILITY				
<b>MONITORING WELLS PLAN</b>				
253 EAST MAIN STREET		FRANKFORT, NEW YORK		
		PREPARED BY: <b>TETRA TECH, INC.</b>		
PROJECT NUMBER	APPROVED BY	DRAWN BY	DATE	FIGURE
194-5382	RC	JRL/DL	MAY 2021	2

# **ATTACHMENT 1**

## **MONITORING WELL CLOSURE LOGS**

**FIGURE 3**  
**WELL DECOMMISSIONING RECORD**

Site Name: Former Union Fork & Hoe Site	Well I.D.: MW-101D
Site Location: Frankfort, New York	Driller: Roger Buley
Drilling Co.: Cascade	Inspector: B. Kudla-Williams
	Date: July 18, 2022

**DECOMMISSIONING DATA**  
(Fill in all that apply)

OVERDRILLING

Interval Drilled

Drilling Method(s)

Borehole Dia. (in.)

Temporary Casing Installed? (y/n)

Depth temporary casing installed

Casing type/dia. (in.)

Method of installing

CASING PULLING

Method employed

Casing retrieved (feet)

Casing type/dia. (in)

CASING PERFORATING

Equipment used

Number of perforations/foot

Size of perforations

Interval perforated

GROUTING

Interval grouted (FBLs)

# of batches prepared

For each batch record:

Quantity of water used (gal.)

Quantity of cement used (lbs.)

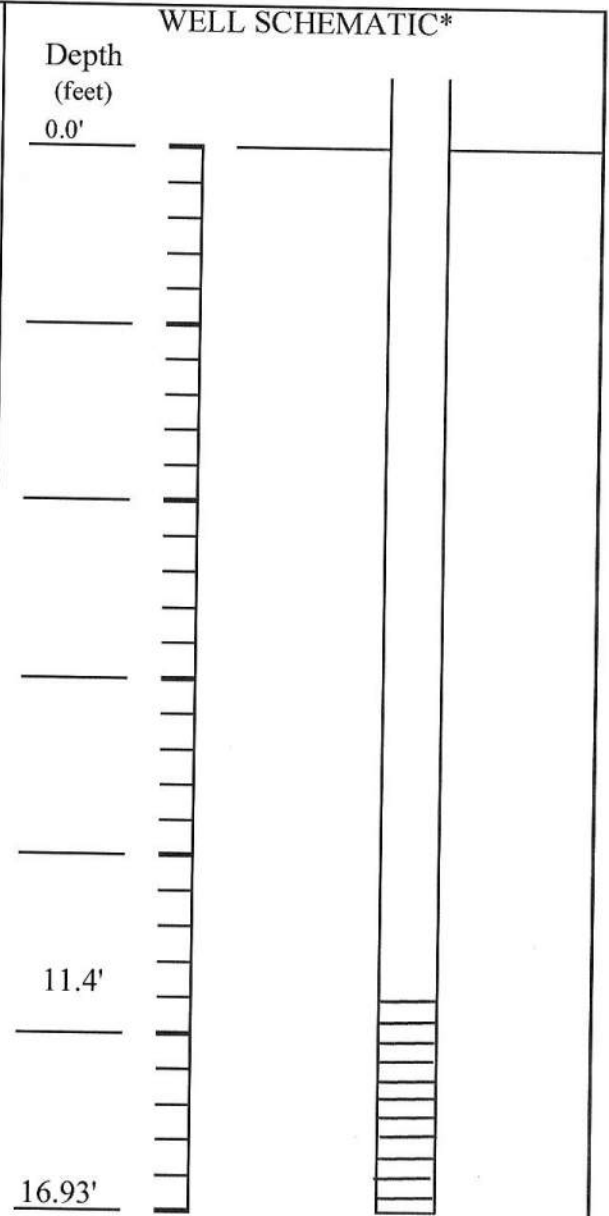
Cement type

Quantity of bentonite used (lbs.)

Quantity of calcium chloride used (lbs.)

Volume of grout prepared (gal.)

Volume of grout used (gal.)



**COMMENTS:** Well filled with grout to just below ground surface  
pvc casing left in ground. Topsoil and grass seed  
added at ground surface.

\* Sketch in all relevant decommissioning data, including:  
interval overdrilled, interval grouted, casing left in hole,  
well stickup, etc.

*CPS*  
Drilling Contractor

*Roger Buley*  
Department Representative

**FIGURE 3**  
**WELL DECOMMISSIONING RECORD**

Site Name: Former Union Fork & Hoe Site	Well I.D.: DEC-SW-09
Site Location: Frankfort, New York	Driller: Roger Buley
Drilling Co.: Cascade	Inspector: B. Kudla-Williams
	Date: July 18, 2022

**DECOMMISSIONING DATA**  
(Fill in all that apply)

OVERDRILLING

Interval Drilled

Drilling Method(s)

Borehole Dia. (in.)

Temporary Casing Installed? (y/n)

Depth temporary casing installed

Casing type/dia. (in.)

Method of installing

CASING PULLING

Method employed

Casing retrieved (feet)

Casing type/dia. (in)

CASING PERFORATING

Equipment used

Number of perforations/foot

Size of perforations

Interval perforated

GROUTING

Interval grouted (FBLs)

# of batches prepared

For each batch record:

Quantity of water used (gal.)

Quantity of cement used (lbs.)

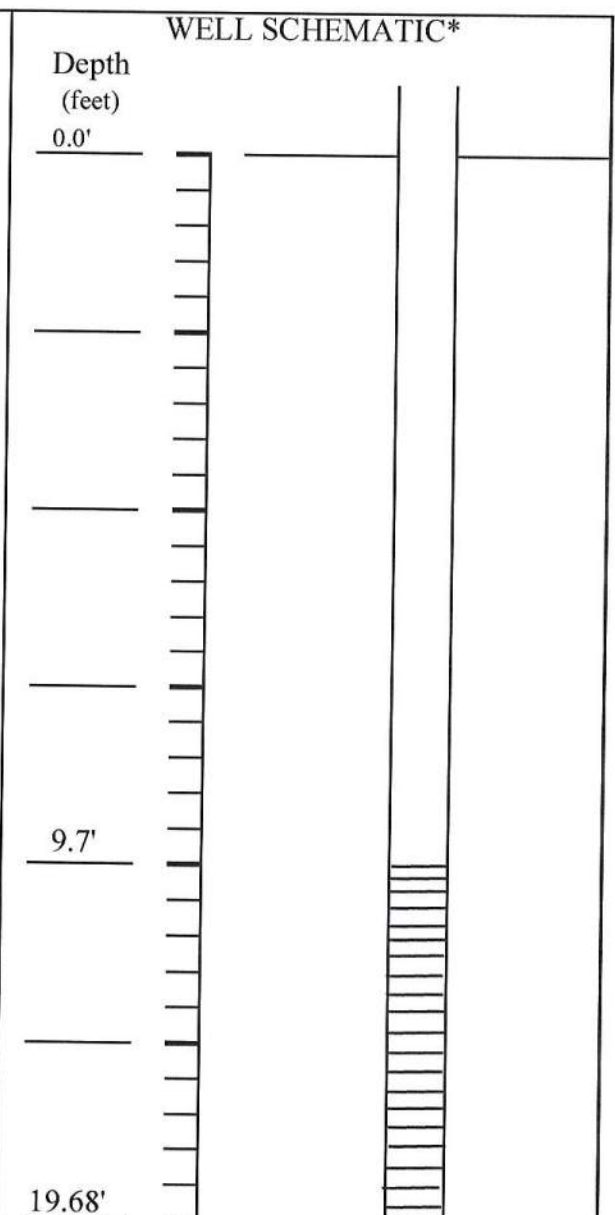
Cement type

Quantity of bentonite used (lbs.)

Quantity of calcium chloride used (lbs.)

Volume of grout prepared (gal.)

Volume of grout used (gal.)



**COMMENTS:** Well filled with grout to just below ground surface pvc casing left in ground. Topsoil and grass seed added at ground surface.

\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

*CPS*  
Drilling Contractor

*Roger Buley*  
Department Representative



**FIGURE 3**  
**WELL DECOMMISSIONING RECORD**

Site Name: Former Union Fork & Hoe Site	Well I.D.: DEC-SW-04
Site Location: Frankfort, New York	Driller: Roger Buley
Drilling Co.: Cascade	Inspector: B. Kudla-Williams
	Date: July 18, 2022

**DECOMMISSIONING DATA**  
(Fill in all that apply)

OVERDRILLING

Interval Drilled

Drilling Method(s)

Borehole Dia. (in.)

Temporary Casing Installed? (y/n)

Depth temporary casing installed

Casing type/dia. (in.)

Method of installing

CASING PULLING

Method employed

Casing retrieved (feet)

Casing type/dia. (in)

CASING PERFORATING

Equipment used

Number of perforations/foot

Size of perforations

Interval perforated

GROUTING

Interval grouted (FBLs)

# of batches prepared

For each batch record:

Quantity of water used (gal.)

Quantity of cement used (lbs.)

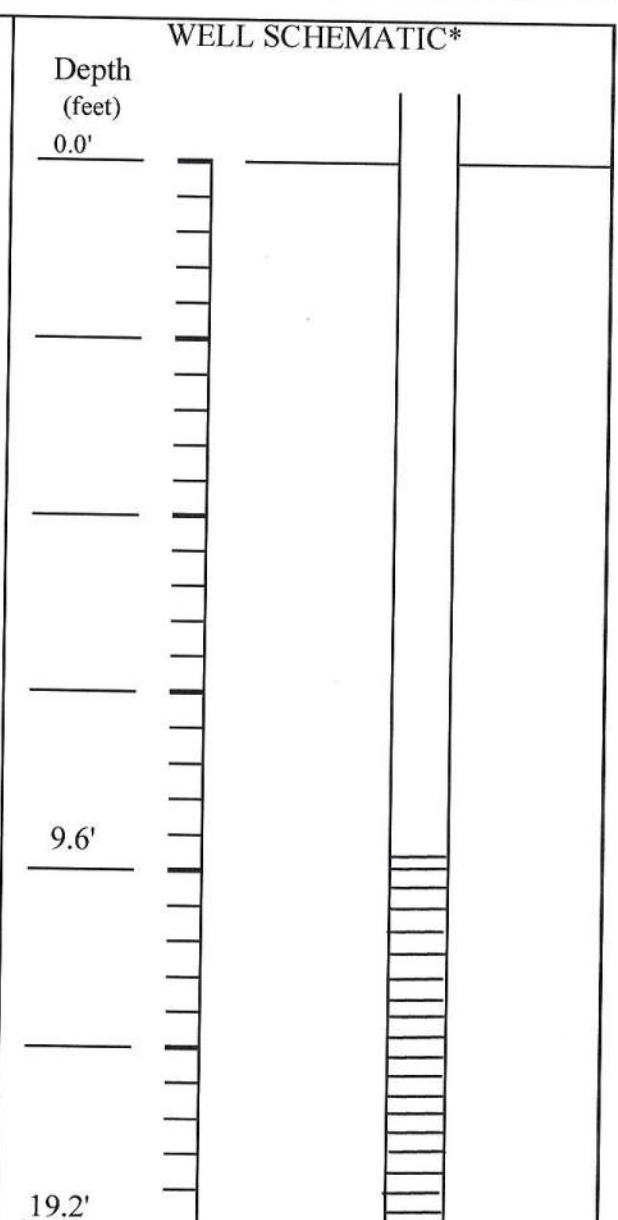
Cement type

Quantity of bentonite used (lbs.)

Quantity of calcium chloride used (lbs.)

Volume of grout prepared (gal.)

Volume of grout used (gal.)



**COMMENTS:** Well filled with grout to just below ground surface  
pvc casing left in ground. Topsoil and grass seed  
added at ground surface.

\* Sketch in all relevant decommissioning data, including:  
interval overdrilled, interval grouted, casing left in hole,  
well stickup, etc.

CRS  
Drilling Contractor

Roger Buley  
Department Representative



**FIGURE 3**  
**WELL DECOMMISSIONING RECORD**

Site Name: Former Union Fork & Hoe Site	Well I.D.: 215-SB-03
Site Location: Frankfort, New York	Driller: Roger Buley
Drilling Co.: Cascade	Inspector: B. Kudla-Williams
	Date: July 19, 2022

**DECOMMISSIONING DATA**  
(Fill in all that apply)

OVERDRILLING

Interval Drilled

Drilling Method(s)

Borehole Dia. (in.)

Temporary Casing Installed? (y/n)

Depth temporary casing installed

Casing type/dia. (in.)

Method of installing

CASING PULLING

Method employed

Casing retrieved (feet)

Casing type/dia. (in)

CASING PERFORATING

Equipment used

Number of perforations/foot

Size of perforations

Interval perforated

GROUTING

Interval grouted (FBLs)

# of batches prepared

For each batch record:

Quantity of water used (gal.)

Quantity of cement used (lbs.)

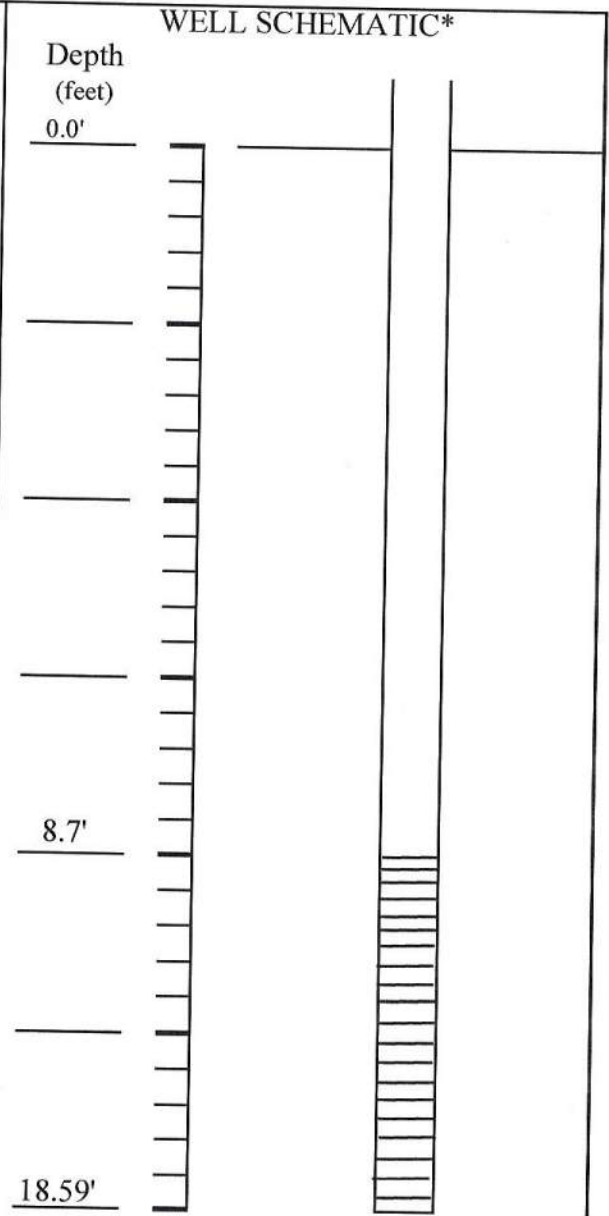
Cement type

Quantity of bentonite used (lbs.)

Quantity of calcium chloride used (lbs.)

Volume of grout prepared (gal.)

Volume of grout used (gal.)



**COMMENTS:** Well filled with grout to ground surface. Well located in cement pad (former building).

\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

CRS  
Drilling Contractor

Roger Buley  
Department Representative

**FIGURE 3**  
**WELL DECOMMISSIONING RECORD**

Site Name: Former Union Fork & Hoe Site	Well I.D.: DEC-IW-04
Site Location: Frankfort, New York	Driller: Roger Buley
Drilling Co.: Cascade	Inspector: B. Kudla-Williams
	Date: July 18, 2022

**DECOMMISSIONING DATA**  
(Fill in all that apply)

OVERDRILLING

Interval Drilled

Drilling Method(s)

Borehole Dia. (in.)

Temporary Casing Installed? (y/n)

Depth temporary casing installed

Casing type/dia. (in.)

Method of installing

CASING PULLING

Method employed

Casing retrieved (feet)

Casing type/dia. (in)

CASING PERFORATING

Equipment used

Number of perforations/foot

Size of perforations

Interval perforated

GROUTING

Interval grouted (FBLs)

# of batches prepared

For each batch record:

Quantity of water used (gal.)

Quantity of cement used (lbs.)

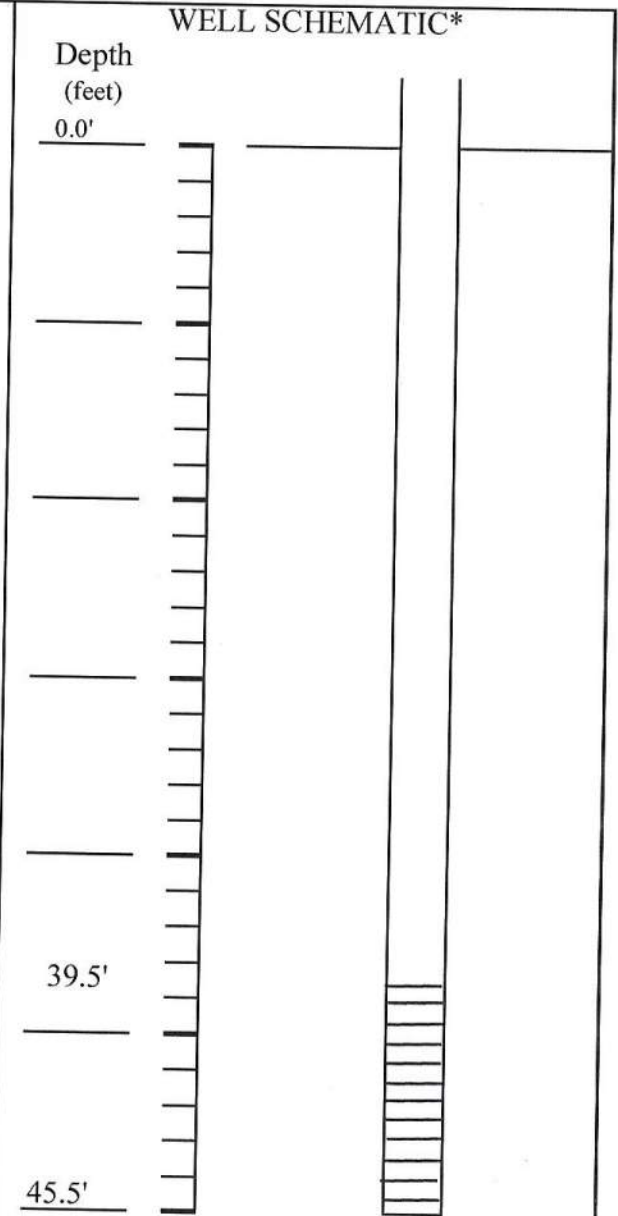
Cement type

Quantity of bentonite used (lbs.)

Quantity of calcium chloride used (lbs.)

Volume of grout prepared (gal.)

Volume of grout used (gal.)



**COMMENTS:** Well filled with grout to just below ground surface. pvc casing left in ground. Topsoil and grass seed added at ground surface.

\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor CAS

Department Representative Roger Buley

**FIGURE 3**  
**WELL DECOMMISSIONING RECORD**

Site Name: Former Union Fork & Hoe Site	Well I.D.: MW-103D
Site Location: Frankfort, New York	Driller: Roger Buley
Drilling Co.: Cascade	Inspector: B. Kudla-Williams
	Date: July 19, 2022

**DECOMMISSIONING DATA**  
(Fill in all that apply)

OVERDRILLING

Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

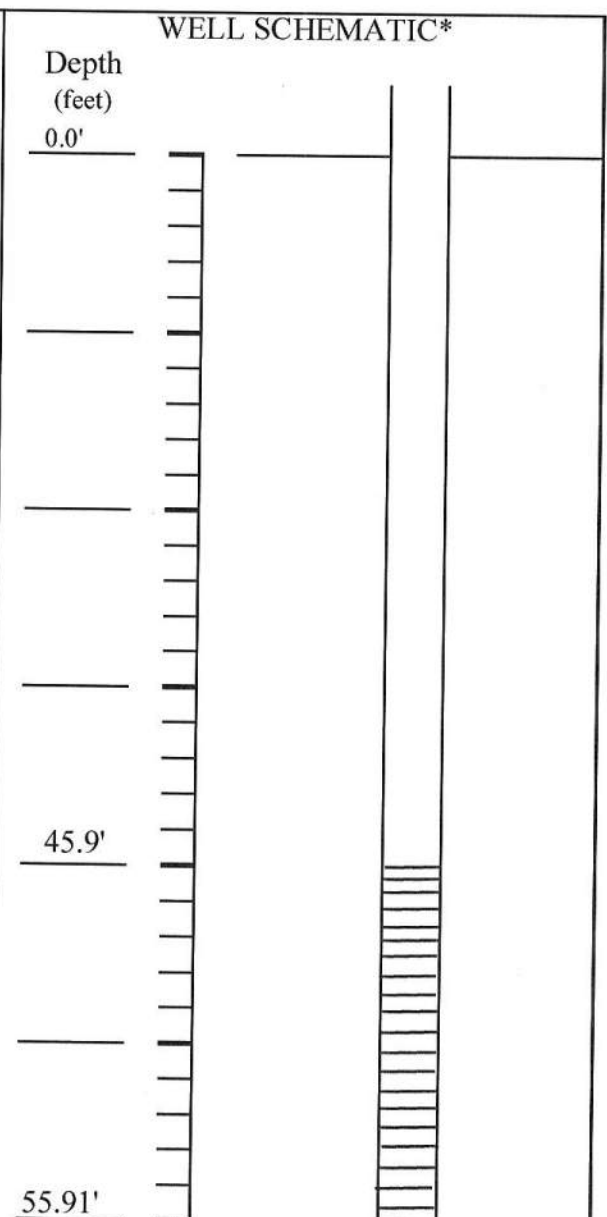
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	

CASING PERFORATING

Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLs)	55.91'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8 gallons
Quantity of cement used (lbs.)	94 lbs
Cement type	Type III Portland
Quantity of bentonite used (lbs.)	4 lbs
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	9 gallons



**COMMENTS:** Well filled with grout to just below ground surface pvc casing left in ground. Filled to ground surface with surrounding soil. Well located in vegetated field.

\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor CRS

Department Representative Roger Buley



**FIGURE 3  
WELL DECOMMISSIONING RECORD**

Site Name:	Well I.D.: <i>dec-sw-13</i>
Site Location: <i>Frank Park</i>	Driller: <i>Blake Pasky</i>
Drilling Co.: <i>Cascade</i>	Inspector:
	Date: <i>6/29/21</i>

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*	
<b>OVERDRILLING</b>	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Depth (feet)</div> </div>	
Interval Drilled		
Drilling Method(s)		
Borehole Dia. (in.)		
Temporary Casing Installed? (y/n)		
Depth temporary casing installed		
Casing type/dia. (in.)		
Method of installing		
<b>CASING PULLING</b>		
Method employed		
Casing retrieved (feet)		
Casing type/dia. (in.)		
<b>CASING PERFORATING</b>		
Equipment used		<i>Tool</i>
Number of perforations/foot		<i>3</i>
Size of perforations	<i>1"</i>	
Interval perforated	<i>0-5</i>	
<b>GROUTING</b>		
Interval grouted (FBLs)	<i>0-25</i>	
# of batches prepared	<i>1</i>	
For each batch record:		
Quantity of water used (gal.)	<i>4</i>	
Quantity of cement used (lbs.)	<i>47</i>	
Cement type	<i>Bestul</i>	
Quantity of bentonite used (lbs.)	<i>1.5</i>	
Quantity of calcium chloride used (lbs.)		
Volume of grout prepared (gal.)	<i>7</i>	
Volume of grout used (gal.)	<i>5</i>	

COMMENTS:

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\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

*Cascade*  
Drilling Contractor

*Blake Pasky*  
Department Representative

**FIGURE 3  
WELL DECOMMISSIONING RECORD**

Site Name:	Well I.D.: <i>ROC-dw-02</i>
Site Location: <i>Frank Fort.</i>	Driller: <i>Blake</i>
Drilling Co.: <i>Cascade</i>	Inspector:
	Date: <i>6/29/21</i>

**DECOMMISSIONING DATA  
(Fill in all that apply)**

OVERDRILLING

Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

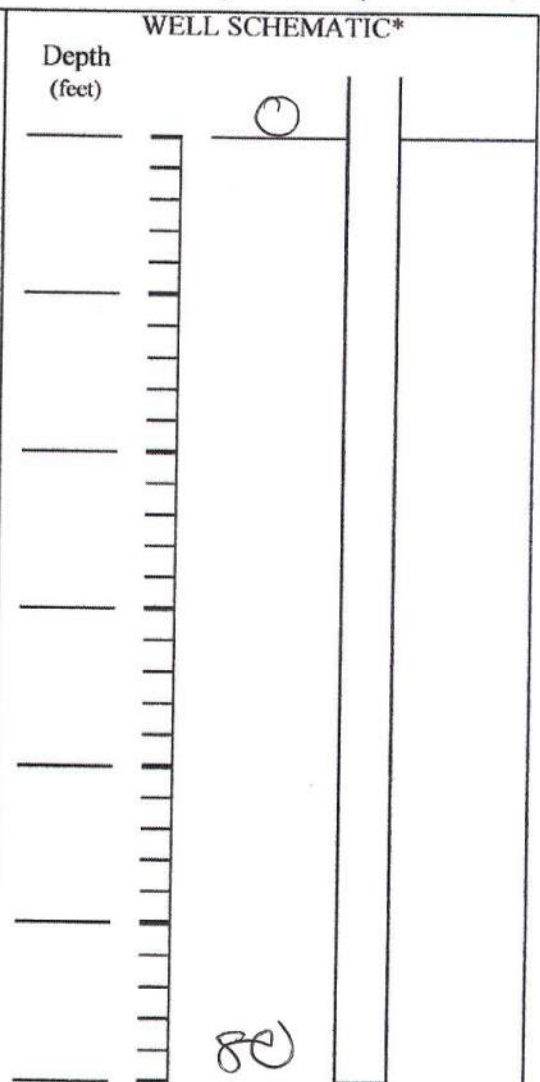
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	

CASING PERFORATING

Equipment used	<i>Tool</i>
Number of perforations/foot	<i>3</i>
Size of perforations	<i>1"</i>
Interval perforated	<i>0-5</i>

GROUTING

Interval grouted (FBLs)	<i>0-80</i>
# of batches prepared	<i>3</i>
For each batch record:	
Quantity of water used (gal.)	<i>4</i>
Quantity of cement used (lbs.)	<i>47</i>
Cement type	<i>Portland</i>
Quantity of bentonite used (lbs.)	<i>10</i>
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	<i>21</i>
Volume of grout used (gal.)	<i>16</i>



**COMMENTS:**

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\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

*Cascade*  
Drilling Contractor

*Blake Ruby*  
Drilling Representative



**FIGURE 3  
WELL DECOMMISSIONING RECORD**

Site Name:	Well I.D.:
Site Location: <i>Frat Fort</i>	Driller: <i>Blake Parley</i>
Drilling Co.: <i>Cascade</i>	Inspector:
	Date: <i>6/29/21</i>

**DECOMMISSIONING DATA**  
(Fill in all that apply)

OVERDRILLING

Interval Drilled

Drilling Method(s)

Borehole Dia. (in.)

Temporary Casing Installed? (y/n)

Depth temporary casing installed

Casing type/dia. (in.)

Method of installing

CASING PULLING

Method employed

Casing retrieved (feet)

Casing type/dia. (in.)

CASING PERFORATING

Equipment used  *Tec*

Number of perforations/foot  *3*

Size of perforations  *1"*

Interval perforated  *0-5*

GROUTING

Interval grouted (FBLs)  *0-30*

# of batches prepared  *2*

For each batch record:

Quantity of water used (gal.)  *4*

Quantity of cement used (lbs.)  *47*

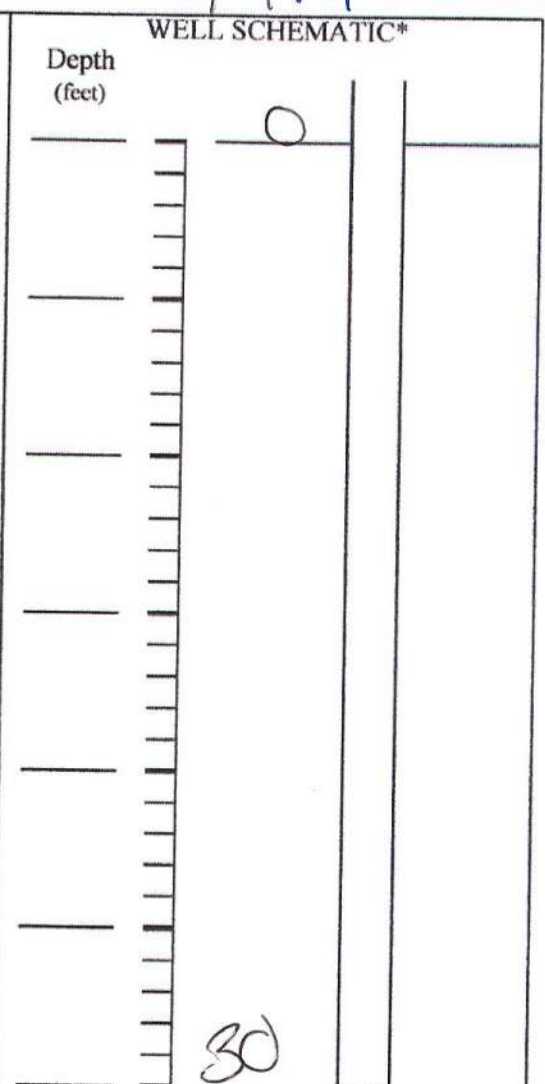
Cement type  *Quikret*

Quantity of bentonite used (lbs.)  *15*

Quantity of calcium chloride used (lbs.)

Volume of grout prepared (gal.)  *13*

Volume of grout used (gal.)  *8*



**COMMENTS:**

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\_\_\_\_\_

\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

*Cascade*  
Drilling Contractor

*Blake Parley*  
Department Representative



**FIGURE 3:  
WELL DECOMMISSIONING RECORD**

Site Name:	Well I.D.:
Site Location: <i>Franklin</i>	Driller: <i>Blake Pinsky</i>
Drilling Co.: <i>Cascade</i>	Inspector:
	Date: <i>6/29/21</i>

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*
<u>OVERDRILLING</u>	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Depth (feet)</div> </div>
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
<u>CASING PULLING</u>	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
<u>CASING PERFORATING</u>	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
<u>GROUTING</u>	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (lbs.)	
Cement type	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	

COMMENTS:

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\* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

*Cascade*  
Drilling Contractor

*Blake Pinsky*  
Department Representative

**FIGURE 3  
WELL DECOMMISSIONING RECORD**

Site Name:		Well I.D.:	dec-lw-01
Site Location:	Bellevue	Driller:	Blake
Drilling Co.:	Cascade	Inspector:	
		Date:	6/29/21

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*	
<b>OVERDRILLING</b>	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Depth (feet)</div> </div>	
Interval Drilled		
Drilling Method(s)		
Borehole Dia. (in.)		
Temporary Casing Installed? (y/n)		
Depth temporary casing installed		
Casing type/dia. (in.)		
Method of installing		
<b>CASING PULLING</b>		
Method employed		
Casing retrieved (feet)		
Casing type/dia. (in.)		
<b>CASING PERFORATING</b>		
Equipment used		Tru
Number of perforations/foot		3
Size of perforations	1 1/2	
Interval perforated	0-5	
<b>GROUTING</b>		
Interval grouted (FBLs)	0-49	
# of batches prepared	3	
<u>For each batch record:</u>		
Quantity of water used (gal.)	4	
Quantity of cement used (lbs.)	47	
Cement type	Portland	
Quantity of bentonite used (lbs.)	1.5	
Quantity of calcium chloride used (lbs.)		
Volume of grout prepared (gal.)	16	
Volume of grout used (gal.)	1.2	

**COMMENTS:**

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\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Cascade  
Drilling Contractor

Blake  
Department Representative