

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**.

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 <a href="mailto:Robert.Cantagallo@tetratech.com">Robert.Cantagallo@tetratech.com</a>, should you have questions or require additional information.

Sincerely,

Tetra Tech, Inc.

Robert Cantagallo, CHMM

Robert C. Contogle

Senior Project Manager

CC: Mr. David Sweet, Griffon Corporation

Mr. Arul Ayyaswami, Tetra Tech

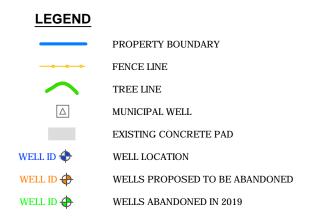
**Enclosures** 

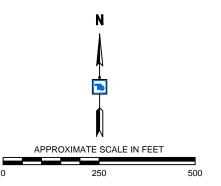
Figure 1 - Site Location Map

Figure 2 - Monitoring Wells Plan

Attachment 1 – Monitoring Well Closure Logs







#### 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

#### MONITORING WELLS PLAN

253 EAST MAIN STREET

FRANKFORT, NEW YORK



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

PROJECT NUMBER	APPROVED BY	DRAWN BY	DATE	FIGURE
194-5382	RC	JRL/DL	MAY 2021	2

# ATTACHMENT 1 MONITORING WELL CLOSURE LOGS

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	G DATA	1	WELL SCHEMATIC*
(Fill in all that app		Depth	WELL SCHEMATIC*
	• • •	(feet)	1 1
OVERDRILLING		0.0'	
Interval Drilled		0.0	7 — —
Drilling Method(s)			-
Borehole Dia. (in.)			-
Temporary Casing Installed? (y/n)			-
Depth temporary casing installed			- 11
Casing type/dia. (in.)			-
Method of installing			- 11
	<u>-</u>		- 11
CASING PULLING		1	- 11
Method employed		II.	-
Casing retrieved (feet)			-
Casing type/dia. (in)			-
			-
<u>CASING PERFORATING</u>			-
Equipment used			-
Number of perforations/foot			-
Size of perforations			<del>-</del>
Interval perforated			-
GROUTING			
Interval grouted (FBLS)	16.93'		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	8 gallons	11.4'	
Quantity of cement used (lbs.)	94 lbs		
Cement type	Type III Port and		
Quantity of bentonite used (lbs.)	4 lbs		
Quantity of calcium chloride used (lbs.)			
Volume of grout prepared (gal.)			
Volume of grout used (gal.)	1 gallon	16.93'	
COMMENTS: Well filled with grout to it			
COMMENTS: Well filled with grout to ju	ust below ground surface.	* Sketch in all	relevant decommissioning data, including:
pvc casing left in ground.	l opsoil and grass seed	interval over	frilled, interval grouted, casing left in hole,
added at ground surface.		well stickup,	etc.
		//	
CRI		4	17
Drilling Contractor	_	Mora	1 / Sull/

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
121	Date: July 18, 2022

DECOMMISSIONING		1	WELL SCHEMATIC*
(Fill in all that apply)		Depth	
OMEDDANTANA		(feet)	1 1
OVERDRILLING		0.0'	
Interval Drilled		) s	
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed			
Casing type/dia. (in.)			7 11
Method of installing			
G. 67-6			7 11
CASING PULLING			
Method employed			7 1 1
Casing retrieved (feet)			7 11
Casing type/dia. (in)			7 11
G. GD. G. S.			7 11
CASING PERFORATING			7 11
Equipment used			
Number of perforations/foot			
Size of perforations			7 11
Interval perforated			
GROUTING			
		9.7'	
Interval grouted (FBLS)	19.68'		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.) Quantity of cement used (lbs.)	8 gallons		
Cement type	94 lbs		
	Type III Port and		
Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.)	4 lbs		_ =
Volume of grout prepared (gal.)			
Volume of grout used (gal.)	2.5		
votatile of grout used (gal.)	3.5 gallons	19.68'	
COMMENTS. Wall filled with and the	(1.1 1.0.1		
COMMENTS: Well filled with grout to ju	ust below ground surface	* Sketch in all re	elevant decommissioning data, including:
pvc casing left in ground.	Topsoil and grass seed	interval overdri	illed, interval grouted, casing left in hole,
added at ground surface.		well stickup, et	c.
		//	2 1
CRS		n	1.
Drilling Contractor	-	Department Repr	DUY
name of the Australian Annual Control of Con		epartment Kep	resemance 2

Site Name: Former Union Fork & Hoe Site	Well I.D.: DEC-SW-04	_	
Site Location: Frankfort, New York	Driller: Roger Buley	4	
Drilling Co.: Cascade	Inspector: B. Kudla-Williams		
	Date: July 18, 2022	7	

DECOMMISSIONIN	GDATA		
(Fill in all that ap			HEMATIC*
(1 m m an that ap	ply)	Depth	
OVERDRILLING		(feet)	
Interval Drilled		0.0'	
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Coging Installado ( / )			
Temporary Casing Installed? (y/n) Depth temporary casing installed			
Cosing type/dia (in)			*
Casing type/dia. (in.)			
Method of installing			
CASDIC DIVINING			
CASING PULLING			1 1
Method employed			
Casing retrieved (feet)			
Casing type/dia. (in)			1 1 1
C. Chicago			
<u>CASING PERFORATING</u>		_	1 1 1
Equipment used		_	
Number of perforations/foot			
Size of perforations		_	
Interval perforated		_	
GROUTING		9.6'	
Interval grouted (FBLS)	19.2'		
# 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	<del></del>	
Quantity of bentonite used (lbs.)	4 lbs	-	
Quantity of calcium chloride used (lbs.)	. 100	_	
Volume of grout prepared (gal.)		_	
Volume of grout used (gal.)	3.5 gallons	19.2'	
	- 12 8	19.2	
COMMENTS: Well filled with grout to j	ust below ground surface		
nyc casing left in ground	Topsoil and gross seed	* Sketch in all relevant decommi	
pvc casing left in ground. Topsoil and grass seed		interval overdrilled, interval gro	outed, casing left in hole,
added at ground surface.		well stickup, etc.	
		$\Lambda$	,
CRS		11 61	
Drilling Contractor	_	Har Dule	2/
50 C. 100 (100 (100 (100 (100 (100 (100 (100		Department Representative	

Drilling Contractor

Site Name: Former Union Fork & Hoe Site	Wall I D. 215 GD 62		
Site Location: Frankfort, New York	Well I.D.: 215-SB-03		
Drilling Co.: Cascade	Driller: Roger Buley		
	Inspector: B. Kudla-Williams Date: July 19, 2022		

		Bate. buly 19,	ZOLL
DECOMMISSIONING	G DATA	WEI	I CCHEMATICS
(Fill in all that ap	ply)	Depth	L SCHEMATIC*
		(feet)	î r
<u>OVERDRILLING</u>		0.0'	1 1
Interval Drilled			
Drilling Method(s)		_	1 1
Borehole Dia. (in.)		1 -	
Temporary Casing Installed? (y/n)			
Depth temporary casing installed			
Casing type/dia. (in.)			
Method of installing			
C. C			
CASING PULLING	-		
Method employed			
Casing retrieved (feet)			
Casing type/dia. (in)			
CASING DEDECT ATTIC	W. Table		1 1
CASING PERFORATING Equipment used			
			1 1
Number of perforations/foot			1.1
Size of perforations Interval perforated			
interval perforated			1 1
GROUTING			
Interval grouted (FBLS)		8.7'	
# of batches prepared	18.59'		
For each batch record:	1		
Quantity of water used (gal.)	0 11		
Quantity of cement used (lbs.)	8 gallons		
Cement type	94 lbs		
Quantity of bentonite used (lbs.)	Type III Portland 4 lbs	_	
Quantity of calcium chloride used (lbs.)	4 108		
Volume of grout prepared (gal.)			
Volume of grout used (gal.)	1 gallon	10.50	
(8)	1 ganon	18.59'	
COMMENTS: Well filled with grout to g	round surface Well	1	
located in cement pad (for	mor building)	* Sketch in all relevant de	ecommissioning data, including:
Totaled in cement pad (10)	mer building).	interval overdrilled, inte	rval grouted, casing left in hole,
		well stickup, etc.	1
CRS		41	11.1.1
Orilling Contractor	-	Department/Representativ	Muly
		Department Representativ	6

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		

DECOMMISSIONIN	G DATA	T W	ELL SCHEMATIC*
	(Fill in all that apply)		LLL SCHEWATIC.
( m an that up	P-7/	Depth	
OVERDRILLING		(feet)	
Interval Drilled		0.0'	
Drilling Method(s)		_	1 1 1
Borehole Dia. (in.)		_	-
Temporary Casing Installed? (y/n)		_	→ 11
Depth temporary casing installed			-
Casing type/dia. (in.)			_
Method of installing			
retiod of histaining			7   1
G. Charles	85	_	1
CASING PULLING		_	1   1
Method employed		_	-
Casing retrieved (feet)			-
Casing type/dia. (in)			1 1
oneng type, and. (m)			]
CASING DEDEODATING			]
CASING PERFORATING		_	1
Equipment used		_	1
Number of perforations/foot			1 1 1
Size of perforations		( <del>-</del>	-
Interval perforated		-	-
1		1	-
GROUTING			]
Interval grouted (FBLS)			]
# of batches prepared	45.5'		
For each had 1	1	AT.	]
For each batch record:		<del>-</del>	1
Quantity of water used (gal.)	8 gallons	39.5'	1
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.)	4105		
Volume of grout prepared (gal.)			
Volume of grout used (gal.)			
volume of grout used (gal.)	7.4 gallons	45.5'	
COMMENTS: Well filled with grout to j	ust below ground surface	* Skatch in all mlau	ant decommissioning data, including:
pvc casing left in ground.	Topsoil and grass seed		
added at ground surface.	-1 same grass seed	interval overdrilled	l, interval grouted, casing left in hole,
B- s and surface.		well stickup, etc.	
(25		61	11
Drilling Contractor	_	Meth	Durys
		Department Represes	ntative /

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	YY 177 X 77 C 27 C 27 C 27 C 27 C 27 C 27 C	
		WELL SCHEMATIC*	
(Fill in all that app	ory)	Depth	
OVERDRILLING		(feet)	
Interval Drilled		0.0'	
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed			
Casing type/dia. (in.)			
Method of installing			
Wedlod of histairing			
CASING PULLING			
Method employed			
Casing retrieved (feet)			
Casing type/dia. (in)			
casing type/dia. (iii)	9		, i
CASING PERFORATING			
Equipment used			
Number of perforations/foot			
Size of perforations			
Interval perforated			
mervar perforated			
GROUTING		15.01	
Interval grouted (FBLS)	55.011	45.9'	
# of batches prepared	55.91'		
For each batch record:	1		
Quantity of water used (gal.)	0 11		
Quantity of water used (gal.)  Quantity of cement used (lbs.)	8 gallons		- 1
Cement type	94 lbs		
Quantity of bentonite used (lbs.)	Type III Port and 4 lbs		- 1
Quantity of calcium chloride used (lbs.)	4 108		
Volume of grout prepared (gal.)			
Volume of grout used (gal.)	9 gallons	l	
e grout used (gui.)	9 gallons	55.91'	
COMMENTS. Wall filled with arout to in	-41.1 1 0	ă	
COMMENTS: Well filled with grout to ju	ist below ground surface	* Sketch in all relevant decommissioning data, include	ling:
pvc casing left in ground.	Filled to ground surface	interval overdrilled, interval grouted, casing left in h	nole,
with surrounding soil. We	Il located in vegetated	well stickup, etc.	
field.			
CDS		11 1	
Drilling Contractor	-	INGN BIVE!	
974 FAMERICA ************************************		Department Representative	

Site Name:		Well I.D .: dec - Sw ~ 13
Site Location: Fronk Park		Driller: Bkla Pasky
Drilling Co.: Cascade		Inspector:
		Date: 6/29 7
DECOMMISSIONING	- DATA	77 (16)
OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed		WELL SCHEMATIC*  Depth (feet)  ——————————————————————————————————
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	700/ 3, 1" 0-5	
GROUTING Interval grouted (FBLS) # of batches prepared For each batch record:	0-28	
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.)	9-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
Volume of grout used (gal.)	13	26
COMMENTS:		* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, easing left in hole, well stickup, etc.
Drilling Contractor		Department Representative / La / La

Site Name:		Well I.D.:	200 - de - 00
Site Location: Frank First,		Driller:	Blake
Drilling Co.: Caxcol		Inspector:	VIA .
		Date: /	129/21
DECOMMISSIONIN	CDATA		
(Fill in all that ap	1980 Y. D. W. S. M. S.	Depth	LL SCHEMATIC*
	P-577	(feet)	1 1
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	Tool		
Number of perforations/foot	3		
Size of perforations	Tri		
Interval perforated	0-5		
GROUTING			
Interval grouted (FBLS)	( -Se)		
# of batches prepared	300		
For each batch record:			
Quantity of water used (gal.) Quantity of cement used (lbs.)	4		
Cement type	0.17		
Quantity of bentonite used (lbs.)	Port	_	
Quantity of calcium chloride used (lbs.)	- 10	-	
Volume of grout prepared (gal.)	21		20)
Volume of grout used (gal.)	16		90
COMPARATE.		•	
COMMENTS:		1	decommissioning data, including:
		The same area	terval grouted, easing left in hole,
		well stickup, etc.	
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Orilling Contractor	_	Desirate Representati	ake my
		Man de la contra dela contra de la contra dela contra de la contra del la con	
		HOUSE	•

Site Name:		T 0.10 Ct m2
6: 1		Well I.D.: 212, -55-02
		Driller: Bkk Chalca
Drilling Co.: Casale		Inspector:
		Date: (0/20/7/1
DECOMMISSIONING	GDATA	WELL SCHEMATION
(Fill in all that ap		WELL SCHEMATIC* Depth
	,	(feet)
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 BUILDING		
CASING PULLING Method employed		
Casing retrieved (feet)		
Casing type/dia. (in)		
	h	
CASING PERFORATING		
Equipment used Number of perforations/foot	Tel	
Size of perforations	6683	
Interval perforated	COL	
GROUTING	ALIES AND	
Interval grouted (FBLS)	0-30	
# of batches prepared For each batch record:	_2	
Quantity of water used (gal.)		
Quantity of cement used (lbs.)	170	
Cement type	QUALIT	
Quantity of bentonite used (lbs.)	1 et	
Quantity of calcium chloride used (lbs.)		
Volume of grout prepared (gal.)	13	
Volume of grout used (gal.)	181	
COMMENTS:		1
COMMENTS.	****	* Sketch in all relevant decommissioning data, including:
		interval overdrilled, interval grouted, easing left in hole,
		well stickup, etc.
Cat of the same of		2// ()/
Drilling Contractor	-	1 1014 Mayla
		Department Representative

Site Name:		Well I.D.: 214 55 9	
Site Location: Frale For		Driller: Bola Poly	
Drilling Co.: Cascade		Inspector:	***************************************
	-	Date: 6 29 2.1	-
_		17000.	menum Megasini inni
DECOMMISSIONING		WELL SCHEMATIC*	
(Fill in all that app	ly)	Depth	
OVERDRILLING		(feet)	
Interval Drilled	1		-
Drilling Method(s)			
Borchole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed			
Casing type/dia. (in.)			
Method of installing			
CACINIC DUILI DIC			
CASING PULLING Method employed	-		
Casing retrieved (feet)			
Casing type/dia. (in)			
(11)	1		
CASING PERFORATING			
Equipment used	Tel		
Number of perforations/foot	3		
Size of perforations	/1/		
Interval perforated	0-8		
GROUTING			
Interval grouted (FBLS)	(A-VM)		
# of batches prepared	20		
For each batch record:			
Quantity of water used (gal.)	41		
Quantity of cement used (lbs.)	97.1		
Cement type	Walcal		
Quantity of bentonite used (lbs.)	18		
Quantity of calcium chloride used (lbs.)		- (10)	
Volume of grout prepared (gal.) Volume of grout used (gal.)	16	1 40 1	
votanie or grout used (gai.)	4-7		
COMMENTS:		1	
COMMUNICAL CONTRACTOR OF THE C		* Sketch in all relevant decommissioning data, including	
		interval overdrilled, interval grouted, casing left in hole.	
		well stickup, etc.	
A		and the second s	-
Lascade		- Arte Charles	
Drilling Contractor		Department Representative	

Site Name:		Well I.D.: dec-111-01
Site Location: RUCA		D.:
Drilling Co.: Coxcell		7/19/19
		Inspector:
		Date: (0 29 2
DECOMMISSIONIN (Fill in all that ap	G DATA ply)	WELL SCHEMATIC*
OVERDRILLING Interval Drilled		(feet)
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	Tel 3	
Interval perforated  GROUTING	0.0	
Interval grouted (FBLS) # of batches prepared For each batch record:	0-99	
Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type	Posted	
Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.)	1:5	
Volume of grout prepared (gal.) Volume of grout used (gal.)	1/2	] = 49 [
COMMENTS:		* Sketch in all relevant decommissioning data, including:
		interval overdrilled, interval grouted, easing left in hole,
Λ		well stickup, etc.
Orilling Contractor		/ Ada 8 and
	•	Department Representative