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2012.0428.02 December 20, 2013

Erie County Industrial Development Agency 95 Perry Street, Suite 403 Buffalo, NY 14203

Attn: Mr. Philip Riggs

Facilities, Rail & Site Management

Re: River Road Well Decommissioning

3445 River Road, Tonawanda, NY 14150

Dear Mr. Riggs:

This letter report presents information relating to the decommissioning of the remaining groundwater monitoring wells (a total of 7) at 3445 River Road, Tonawanda, NY (Project Site). KHEOPS Architecture, Engineering & Survey, DPC (KHEOPS) performed inspection services on behalf of the Erie County Industrial Development Agency (ECIDA). The well decommissioning activities were performed on December 4 and 5, 2013.

GROUNDWATER MONITORING WELL DECOMMISSIONING PROCEDURE

Groundwater monitoring well decommissioning was performed in accordance with the New York State Department of Environmental Conservation's (NYSDEC) *CP-43: Groundwater Monitoring Well Decommissioning Policy* issued November 3, 2009. The following is a summary of the policy as it relates to the decommissioning activities performed at the Project Site:

Preparation

Prior to commencement of work at the site, all available historical well information should be obtained and reviewed. Well construction details including, but not limited to, depth of well and screening interval should be identified, if possible. GPS coordinates and pertinent labeling may aid in field identification of the wells to be decommissioned.

Prior to decommissioning activities, a field inspection should be completed in order to verify the construction and condition of each well. The inspection should include a documentation of the existing conditions of the wells. The Monitoring Well Field Inspection Logs completed during this well decommissioning are included in this report as Attachment 1.

Decommissioning Method

The wells documented in this report were all decommissioned by grouting in-place. Grouting in-place is the simplest and most frequently used well decommissioning method and grouting itself is the essential component of all decommissioning methods. The grout seals the borehole and any portion of the monitoring well that may be left in the ground. Grouting in-place involves filling the casing with grout to

a level of five feet below land surface, cutting the well casing at a five-foot depth, and removing the top portion of casing and associated well materials from the ground. The standard grout mixture consists of one 94-pound bag Type I Portland cement, 3.9 pounds powdered bentonite, and 7.8 gallons potable water.

Locating and Setting-Up on the Well

Prior to mobilization to the site, the property owner and other interested parties were notified. Once at the site, the proposed well decommissioning procedures were reviewed and all well locations were verified. Well identification included measurement of the depth of each well to verify that the well depth matched the depth recorded on the well construction log (if available).

Removing the Protective Casing

Generally, unless the protective casing was loose and could be safely lifted off my hand, the monitoring well was filled with grout before removing the outer protective casing. This ensured that the wells were properly sealed regardless of any problems encountered during removal of the protective casing. Steel well casings were removed approximately five feet below land surface so as to be below the frost line and out of the way of any subsequent shallow digging.

Grouting Mixture Procedure

To begin the grout-mixing procedure, the volume of grout required to fill the borehole was calculated. When possible, all of the grout needed for the borehole was mixed at the same time. The grout was mixed until a smooth, homogeneous mixture was achieved.

Grout Placement

Grout was placed in the well from the bottom to the top by the means of a "tremie". A tremie is a pipe, a hose or a tube extending from the grout supply to the bottom of the well. The tremie delivered the grout all the way down through the water column without its being diluted and mixed with the water that was present in the well. The tremie pipe was withdrawn as the well was filled with grout.

After the grout was pumped into the well, the casing remained in the hole. The outer protective casing "stick-up" was removed only after the well had been properly filled with grout. Without allowing the grout to dry, the driller pulled the casing or over-drilled the well.

Backfilling and Site Restoration

The uppermost five feet of the borehole at the land surface was filled with material physically similar to the natural soils. The surface of the borehole was restored to the condition of the area surrounding the borehole.

Documentation and Field Oversight

Copies of the forms used in the field to record the decommissioning construction are included in this report as Attachment 2.

GROUNDWATER MONITORING WELL DETAILS

A total of seven wells were decommissioned at the Project Site on December 4 & 5, 2013. Earth Dimensions, Inc. (ED) was subcontracted by the ECIDA to perform the decommissioning in accordance with the NYSDEC's Groundwater Monitoring Well Decommissioning Policy document. Figure 3-1 shows

the locations of each of the seven wells. It should be noted that one additional well was pulled; however, it had been previously decommissioned and was only pulled by ED. KHEOPS personnel provided supervision and inspection services and documented all activities at the Project Site. Photographs taken during decommissioning activities are included as Attachment 3.

Table 1 (below) summarizes the details of each of the seven wells that were decommissioned at the Project Site.

Table 1: Decommissioned Monitoring Well Details

Well ID	MW-12S	MW-06S	MW-06DD	MW-04S	MW-03D	MW-06D	MW-05S
Location (Coordinates)	17726306E, 4739495N	17669132E, 4759513N	14669127E, 4759513N	17669217E, 4759565N	17669214E, 4759565N	17669153E, 4759660N	17669153E, 4759662N
Well Depth (Feet)	12	22	56.2	10.3	18	23.7	8
Approximate Stick-up (Feet)	1.5	0.5	At ground surface	2	3	3	3.5

Additionally, the well that was pulled that had previously been decommissioned was located on the northeastern property line within a clay berm. The GPS coordinates for this monitoring well are 17669264N, 4759662N.

FIELD CONDITIONS

December 4, 2013

ED personnel, Mr. Phil Riggs of the ECIDA, and KHEOPS personnel met at the Project Site to identify all of the wells on the property and to obtain the well depths and stick-up heights. The Project Site was fairly muddy; therefore, the drilling rig was stuck before work could begin. ED personnel left the Project Site to pick up a smaller drilling rig. KHEOPS personnel performed a detailed inspection of each of the wells at the Project Site. Copies of the Monitoring Well Field Inspection Logs are included as Attachment 1.

All wells were then filled with grout according to the "Grouting in-place" method discussed previously from the NYSDEC's CP-43: Groundwater Monitoring Well Decommissioning Policy. Approximately 25 gallons of the grout material were used to fill the seven monitoring wells on the Project Site according to ED personnel.

Wells MW-06D and MW-05S were the first to be pulled and were located within a small berm along the northeastern property line. MW-05S was too close to overhead power lines and could not be reached with the drilling rig; however, MW-06D was successfully pulled. Mr. Riggs indicated that well MW-05S would have to be removed using an excavator so that the well would be five feet below ground surface.

Well MW-12S was then pulled, along with four bollards that were surrounding the well.

Well MW-06S had a bollard and a large shrub surrounding it that were both removed prior to pulling the well. Well MW-06S was removed successfully.

An Inspector's Daily Report completed by KHEOPS personnel on December 4, 2013 that details the work performed at the Project Site is included in Attachment 4.

December 5, 2013

ED personnel, Mr. Riggs, and KHEOPS personnel met at the Project Site. ED personnel brought a small excavator to dig out well MW-05S. MW-05S was successfully removed along with some debris (scrap metal and some orange fencing material). ED personnel used the excavator to restore the area to the condition of the area surrounding both former wells (MW-06D and MW-05S). ED personnel decided to use the excavator to remove the remaining wells on the Project Site and Mr. Phil Riggs approved this.

Well MW-06DD had a bollard surrounding the well that was removed. During excavation, several pieces of concrete were removed and a concrete slab was discovered. The excavator broke up the concrete and dug around the well until it was approximately five feet below ground surface. ED personnel torched the protective casing and used the excavator to remove it.

Wells MW-04S and MW-03D were removed successfully, as well as three bollards surrounding them.

Finally, ED personnel used the excavator to pull the one remaining well that had been previously decommissioned.

An Inspector's Daily Report completed by KHEOPS personnel on December 5, 2013 that details the work performed at the Project Site is included in Attachment 4.

ED personnel used the excavator to restore the areas where each of the wells were pulled to the condition of the area surrounding them. All debris that was excavated or removed during the decommissioning process was put into one designated pile near the entrance to the Project Site along River Road.

Should you have any questions concerning this submittal, please contact us at your earliest convenience.

Very truly yours,

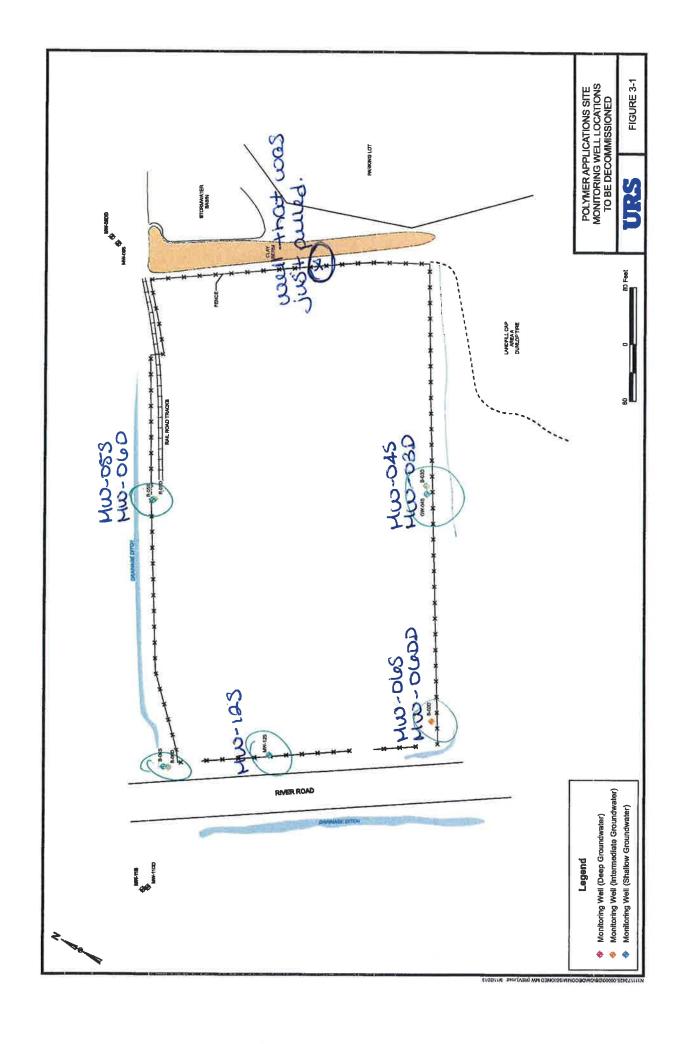
KHEOPS, Architecture, Engineering & Survey, DPC

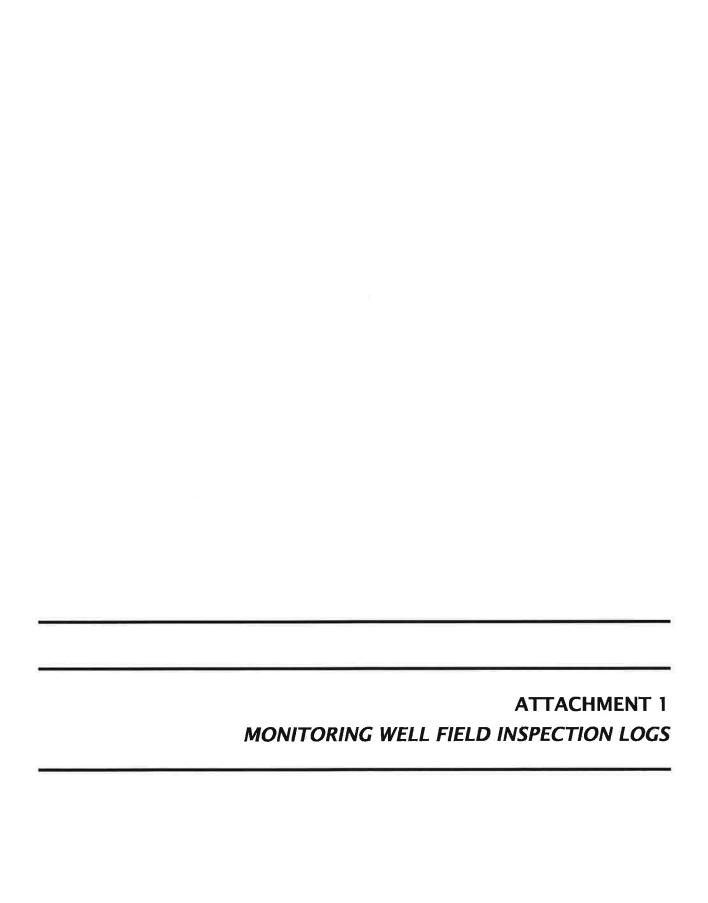
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Michelle L. Bodewes, PE, ENV SP

Project Manager

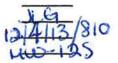
FIGURE 3-1





MONITORING WELL FIELD INSPECTION LOG NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.: INSPECTOR: DATE/TIME: WEll ID.:



	YES NO
WELL VISIBLE? (If not, provide directions below)	V
WELL I.D. VISIBLE?	V
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	×
	MW-123
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:	
	YES NO
SURFACE SEAL PRESENT?	¥
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	<u>V</u>
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	
HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Hadal / A
PROTECTIVE CASING MATERIAL TYPE:	Mesces / 10-1
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LOCK FUNCTIONAL?	
DID YOU REPLACE THE LOCK?	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	X
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MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	121
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	
MEASURE WELL DIAMETER (Inches):	Zinch
WELL CASING MATERIAL:	evc.
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Fair
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	10'
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, of the control of t	overhead
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REMARKS:	

MONITORING WELL FIELD INSPECTION LOG NYSDEC WELL DECOMMISSIONING PROGRAM

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HEADSPACE READING (ppm) AND INSTRUMENT USED	NA
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PROTECTIVE CASING MATERIAL TYPE:	
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	YES NO
LOCK PRESENT?	
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MONITORING WELL FIELD INSPECTION LOG NYSDEC WELL DECOMMISSIONING PROGRAM

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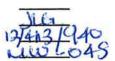
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MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	PUC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Fair
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	
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MONITORING WELL FIELD INSPECTION LOG NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.: INSPECTOR: DATE/TIME:

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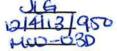
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MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	RUC.
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Fair
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REMARKS:	

MONITORING WELL FIELD INSPECTION LOG NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.:

INSPECTOR:

DATE/TIME: WEll ID.:



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WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	α
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SURFACE SEAL PRESENT?	X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	Ň
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PROTECTIVE CASING MATERIAL TYPE:	
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	YES NO
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LOCK PRESENT?	X
LOCK FUNCTIONAL?	X
DID YOU REPLACE THE LOCK?	X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	10
WELL MEASURING POINT VISIBLE?	
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	181
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	
MEASURE WELL DIAMETER (Inches):	2 h
WELL CASING MATERIAL:	TOUR
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AND ASSESS THE TYPE OF RESTORATION REQUIRED.	
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IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
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REMARKS:	

FIGURE 1

SITE NAME:

MONITORING WELL FIELD INSPECTION LOG NYSDEC WELL DECOMMISSIONING PROGRAM

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INSPECTOR:

DATE/TIME: WEll ID.:

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W2500727 93554444-555444-4-A7	YES NO
SURFACE SEAL PRESENT?	X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	<u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>
HEADSPACE READING (ppm) AND INSTRUMENT USED	Note
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	1001131
PROTECTIVE CASING MATERIAL TYPE:	seem/o
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	
MEASURE PROTECTIVE CASING INSIDE DIAMETER (mones).	YES NO
LOCK PRESENT?	TES NO
	10
LOCK FUNCTIONAL?	- X
DID YOU REPLACE THE LOCK?	——————————————————————————————————————
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	10
WELL MEASURING POINT VISIBLE?	<u></u>
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	23:71
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	1
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	PUC.
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Fair
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	within a to
TROMINIT TO OTHER PROPERTY.	foet.
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, over	rhead
power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF	NECESSARY.
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ren behind them asiall as a fence.	
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a gard	den, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.	
independ but correctly vacant property.	
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
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REMARKS:	

FIGURE 1

SITE NAME:

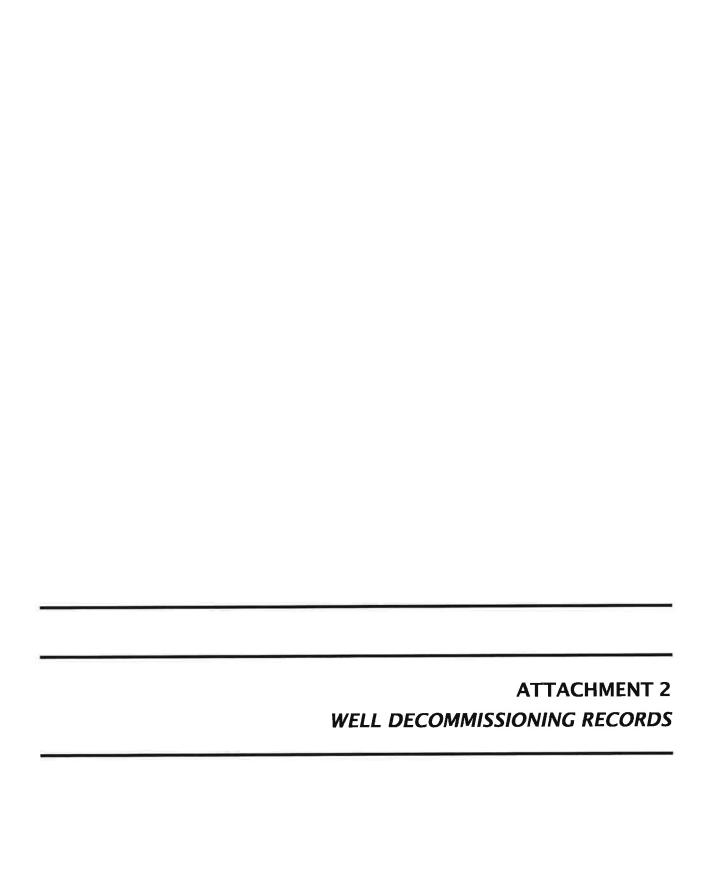
SITE ID.:

INSPECTOR:

DATE/TIME: WEll ID.: 12/4/13

MONITORING WELL FIELD INSPECTION LOG NYSDEC WELL DECOMMISSIONING PROGRAM

	YES NO
WELL VISIBLE? (If not, provide directions below)	X
WELL I.D. VISIBLE?	×
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	×
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WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:	MW-055
	YES NO
SURFACE SEAL PRESENT?	X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	V
AND INCOME TO BE A DIVISION OF THE PROPERTY OF	1.20
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TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Metu/305
PROTECTIVE CASING MATERIAL TYPE:	
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	YES NO
LOCK PRESENT?	
	X
LOCK FUNCTIONAL?	X X
DID YOU REPLACE THE LOCK?	X)
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	X X
WELL MEASURING POINT VISIBLE?	2
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	21
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	
MEASURE WELL DIAMETER (Inches):	Zinch
WELL CASING MATERIAL:	_dinon
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Fair
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	Hell
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	21
PROXIMIT TO UNDERGROUND OR OVERHEAD OTHER TEST.	
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, over	head
power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF N	
Citise to dence and is located within a	
Overhead posterlines are very close as to	<u></u>
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garde	en, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.	
121 P. 101 P. 10	
Industrial but currently alant property.	
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
Industral	
REMARKS:	



Well I.D.: W. 0 -125 Site Name: Liver KD ad Site Location: 3445 River Road, Tonque note H Driller: And 1 / And - Each Dinsersos Inspector: Less ich Gastonik Drilling Co.: Each Dimensions Date: 121 WELL SCHEMATIC* DECOMMISSIONING DATA Depth (Fill in all that apply) 1.5 (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 PULLING Method employed Casing retrieved (feet) Casing type/dia. (in) iai CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated **GROUTING** Interval grouted (FBLS) # of batches prepared total of 25 acr. ar 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.) * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,

11110

well stickup, etc.

Well I.D.: WW -OW Site Name: RIVER RECE Andy Andy-Earth Dirayor Driller: Piver Rd. Tongwando, N Site Location: Inspector: Drilling Co.: Date: 12 WELL SCHEMATIC* DECOMMISSIONING DATA Depth (Fill in all that apply) (feet) OVERDRILLING Interval Drilled Drilling Method(s) certac Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing CASING PULLING Method employed piria Casing retrieved (feet) Casing type/dia. (in) CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated GROUTING *TO+OU of 25 gol grown work Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Ouantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.) COMMENTS: * Sketch in all relevant decommissioning data, including:

Shrilb in

well stickup, etc.

interval overdrilled, interval grouted, casing left in hole,

Well I.D.: HW-OLDD Site Name: Valle Driller: And Site Location: 12 Inspector: 15 Gristoniki Drilling Co.: Courth Dimensions Date: 12 14113 WELL SCHEMATIC* DECOMMISSIONING DATA Depth (Fill in all that apply) (feet) OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (in.) pulle Temporary Casing Installed? (y/n) Depth temporary casing installed iD Casing type/dia. (in.) Method of installing CASING PULLING 180C Method employed Casing retrieved (feet) Casing type/dia. (in) CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated GROUTING *TOTAL OF 25 gas ground mixture
Interval grouted (FBLS) 401 Interval grouted (FBLS) wells # 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: A * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,

well stickup, etc.

O'V NT . O O	Well I.D.: Gun - 04S		
Site Name: Poad			
Site Location: 3445 River Rd. Tongwanda, NY	Driller: Andy Andy - Barth Dimension		
Drilling Co.: Earth Dimensions, MC	Inspector: Jessia Gratomoki		
	Date: 12/4/13		
DECOMMISSIONING DATA	WELL SCHEMATIC*		
(Fill in all that apply)	Depth		
	(feet)		
OVERDRILLING	eas - Approv		
Interval Drilled	Arresent		
Drilling Method(s)	- auled		
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n) Depth temporary casing installed	-1 -		
Casing type/dia. (in.)			
Method of installing			
CASING PULLING Method employed Casing retrieved (feet)	waster -		
Method employed			
Casing retrieved (feet)	10.31		
Casing type/dia. (in)			
CASING PERFORATING			
Equipment used			
Number of perforations/foot			
Size of perforations			
Interval perforated			
GROUTING * 25 gal grant used for all Is			
Interval grouted (FBLS)	l'—— -		
# 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: MICE Were Wir wethingthe	* Sketch in all relevant decommissioning data, including:		
usel.	interval overdrilled, interval grouted, casing left in hole,		
	well stickup, etc.		

Site Name: Livir Road	Well I.D.: <u>100-03D</u>
	Driller: Andy I Andy
Drilling Co.: Earth Dimensions; Inc.	Inspector: Jassiga Coston Sei
	Date: 1214113

DECOMMISSIONING	DATA	l WEL	L SCHEMATIC	*
		Depth		2002
(Fill in all that apple 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		Depth (feet)	31	Appro
CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)	Perriduo Execa	(a <u>bro'</u> =		
CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated		181		
GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type		<u>=</u>		
Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)		∃		
COMMENTS: BOLICIAS CLIMON	ed from any	A COMMITTER OF THE PROPERTY OF	it decommissioning data, interval grouted, casing le	

Site Name: Lyce food

Site Location: 3448 Revered tongwards, w Driller: And J Andy

Drilling Co.: 80x+h Dymensum

Date: 14113

DECOMMISSIONING DATA

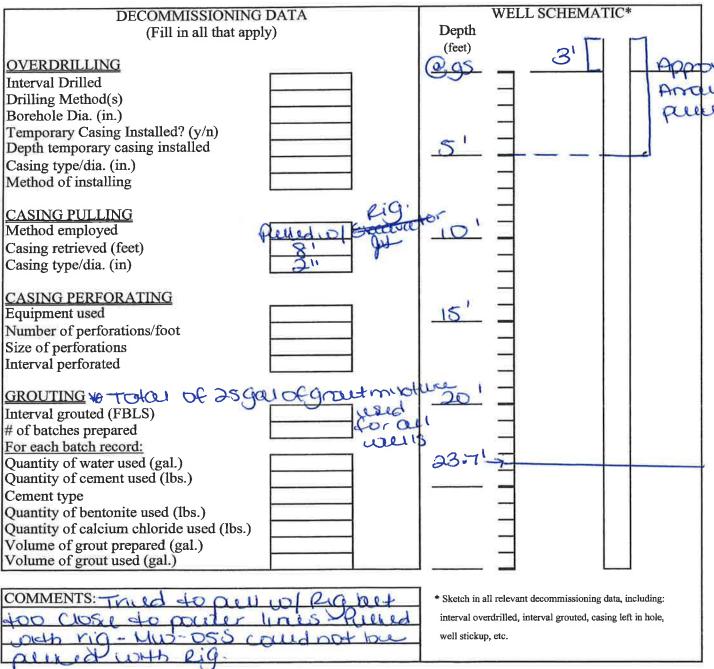
(Fill in all that apply)

Well I.D.: 140x-040

Inspector: 145100 Constants

WELL SCHEMATIC*

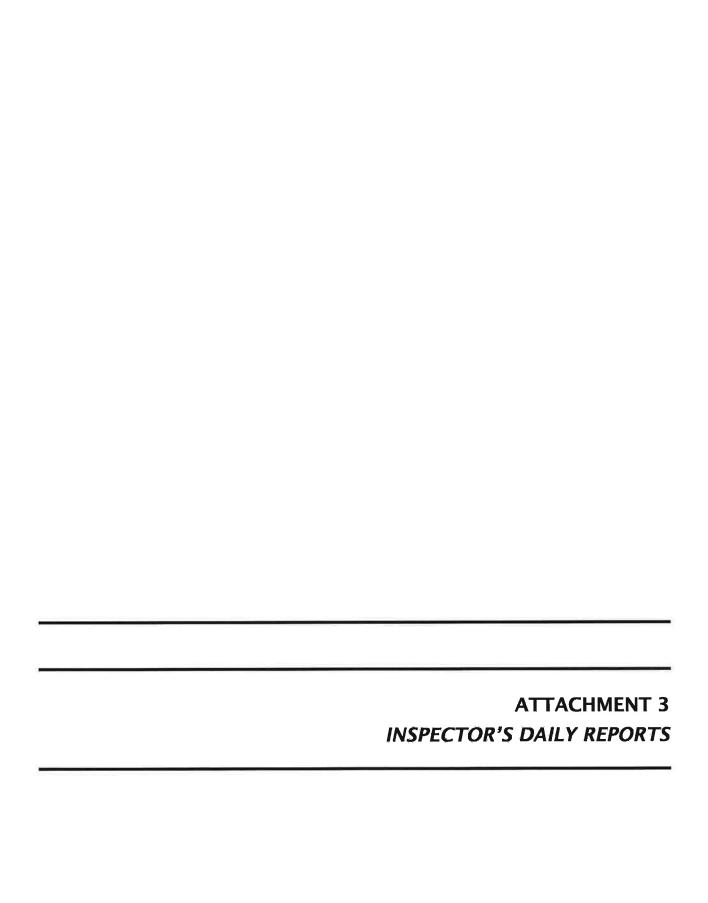
Depth
(feet)



Drilling Contractor

Site Name: River Rd.	Well I.D.: Mus-055
Site Location: 3445 River Rd Tonawande, N	V Driller: Andy / Andy
Drilling Co.: Earth Dimensions	Inspector: 18810 Gostonski
	Date: 12/5/13
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
OVERDRILLING	(feet)
Interval Drilled	(0 95 7
Drilling Method(s)	Amay
Borehole Dia. (in.)	- perie
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	5]
Casing type/dia. (in.)	
Method of installing	
CASDIC DITT I DIC	8' 7
Method employed	-
Method employed Casing retrieved (feet)	CHOP -
Casing type/dia. (in)	
Casing type/dia. (iii)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING A TOTAL OF 25 GOLOG GROWTHING	cture -
Interval grouted (FRI S)	
Interval grouted (FBLS) # of batches prepared) -
For each batch record:	45. -
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:	1
	Sketch in all relevant decommissioning data, including:
with rig - dug and with execultion	
and Olheld	well stickup, etc.

Department Representative



Appendix A1

Inspector's Daily Report

DESCRIPTION	9 1		CONTRACTOR'S WO	ORK H	FORCE AND EQUIPMEN # DESCRIPTION	T H #	DESCRIPTION	н	#
per 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H	# 1	JESCRIF I ION	n	Equipment Equipment	 	Front Loader Ton		Ü
Field Engineer Superintendent			Ironworker	+	Generators		Bulldozer		
Superintendent			TOTIWOTKET		Welding Equip.				
Laborer Foremai		-	Carpenter	1					
Laborer							Backhoe		
Operating Engin	eer		Concrete Finisher						
								-	
Carpenter					Paving Equip. & Roller			-	
			CH YES NO 🗹	,	Air compressor	Ma	1	4	_
Sing the societies Limourd Limourd	DOIL Phi	2-10-10-11	HW-055 &	10	neids to be neids to be nas (4) laid surround Dopm 3:00pm		it & Shrub	05.0	
									-
PAY ITEMS									
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CONTRACT) DESCR	IPTIC	ON QUAN	ТІТҮ	REMARK	5	_
CONTRACT) DESCR	IPTIC	DN QUAN	TITY	REMARK	5	
CONTRACT			D DESCR	IPTIC	ON QUAN	тітү	REMARK	5	
CONTRACT			D DESCR	IPTIC	ON QUAN	TITY	REMARK	5	
PAY ITEMS CONTRACT Number ITEM) DESCR	IPTIC	ON QUAN	тітү	REMARK	5	

Appendix A1

Inspector's Daily Report

FELEPHONE:	15	0	ed Town	170	50° EA.M. 830			то		
OCATION 34	70	river	LO. TOIL	TEM	SDO AM. 830	P.M.		DATE 19	511	3
VEATHER	Cuci							101		
					RCE AND EQUIPMENT DESCRIPTION	() <i>H</i>	#	DESCRIPTION	н	#
DESCRIPTION	Н	# DESCR	IP I IUN	H 3		1"	77	Front Loader Ton	1	7
Field Engineer	\rightarrow			-	Equipment Generators	1		Bulldozer	1	
Superintendent		Ironwo	orker		Welding Equip.			Bulluozei	1	
	+	Carpe	nter	-	weighing Equip.				1	
Laborer Foreman Laborer	+	Carper				1		Backhoe		
		Concr	ete Finisher	-						
Operating Engine	er	Concr	ete rillishet							
Carpenter					Paving Equip. & Roller					
au pentel					Air compressor					
es put i	NO	one officers of	BHE C	510						
AY ITEMS), (S)									_
CONTRACT	ST	A								
	FROM	ТО	DESCRI	PTION	QUAI	YTITY	1	REMARK	5	
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										_
EST PERFORME	:D:					Q/	A PE	RSONNEL		
ICTURES TAKE						SIC	GNA	ATURE		
	5 1					-0	Carr	1		
ISITORS: DW	1000	305 /	ECIDA)	nor	to 8:30am-1	RE		RT NUMBER		
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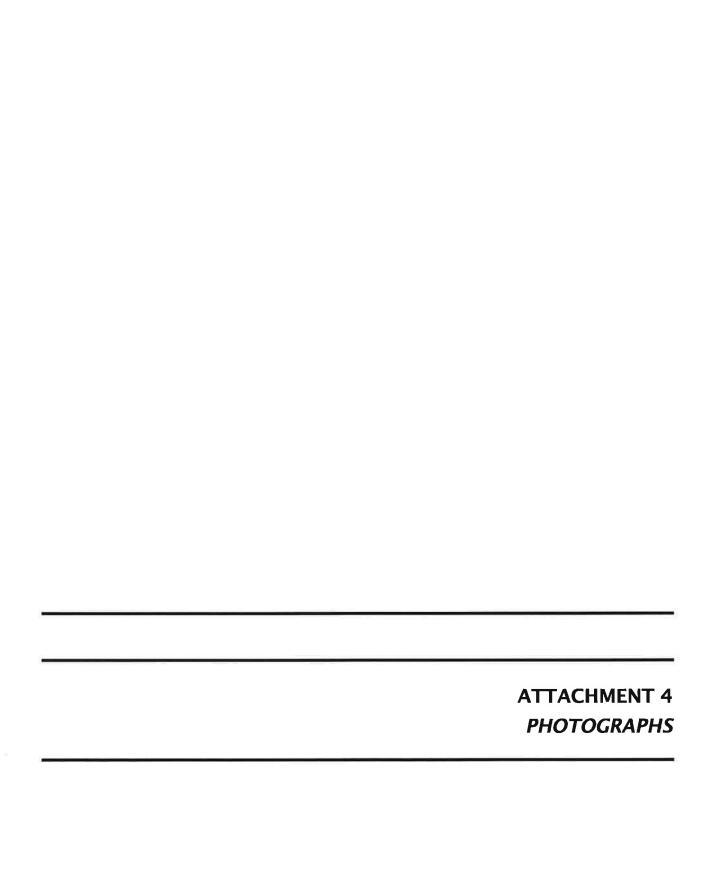




Photo #1: MW-12S with one of the four bollards is pictured to the west of the well.



Photo #2: MW-06S with bollard and shrub.



Photo #3: MW-06DD with bollard.



Photo #4: MW-04S.



Photo #5: MW-03D.



Photo #6: MW-06D.



Photo #7: MW-05S.



Photo #8: MW-06D and MW-05S pictured together.



Photo #9: View of the well that was already decommissioned on the Project Site.

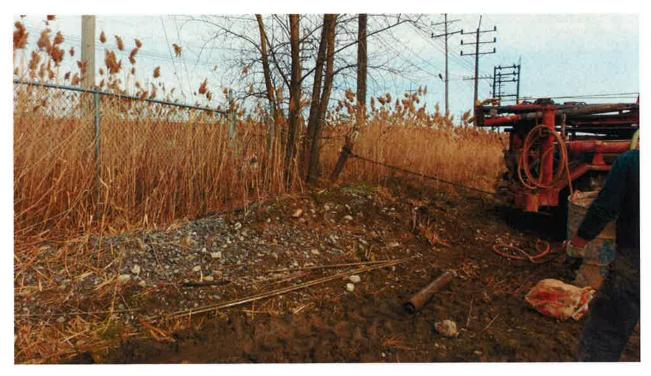


Photo #10: Drilling rig pulling MW-06D.



Photo #11: View of the drilling rig near MW-06D and MW-05S and how close it was to the overhead power lines.



Photo #12: View of MW-05S before it was removed with excavator.



Photo #13: View of MW-06S when they removed the shrub.



Photo #14: Excavator removing the remaining portion of MW-05S.



Photo #15: Excavator removing MW-06DD.



Photo #16: Excavator continuing to dig to remove MW-06DD.



Photo #17: View of MW-06DD – casing has been torched. Waiting on excavator to remove.



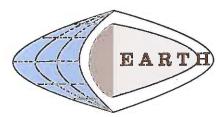
Photo # 18: Close-up of the previous photograph.



Photo #19: View of the removal of wells MW-04S and MW-03D.



Photo #20: View of the well that had been previously decommissioned that was pulled.



DIMENSIONS, INC.

Soil and Hydrogeologic Investigations • Wetland Delineations 1091 Jamison Road • Elma, NY 14059 (716) 655-1717 • FAX (716) 655-2915

LETTER OF TRANSMITTAL

EDI Project Code:

8K13

To:

ECIDA

Attention:

Philip Riggs

Date:

December 12, 2013

Re: Decommission five (5) 2-inch PVC monitoring wells, to be grouted in place,
Polymer Applications Site, River Road, Town of Tonawanda, Erie County, NY

We Are Sending You The Following Items For Your Use:

Date	Project	Description
12/12/13	8K13	Well Decommissioning Records
12/12/13	8K13	PO# 9888
12/12/13	8K13	Invoice

Sent Via:

□ email

□ fax

☑ USPS

If enclosures/attachments are not as noted, please notify EDI at once.

MaryJo



Site Name: 7. 21	9.4	1	
Site Name: River Rd ECTE		Well I.D. 13-05	
Site Location: River Rd Tona	wanda WY	Driller: And vo	w Morris
Drilling Co: Earth Dimensi	our	Inspector:	
		Date: /2-5-/3	
DECOMMISSIONING DATA (fill in all that apply)			SCHEMATIC*
		Depth (feet)	ProCas
OVERDRILLING Interval drilled Drilling Method(s)			
Borehole Dia. (in)		_	1
Temporary Casing Installed? (y/n)			
Depth temporary casing installed Casing type/dia. (in.)			1 Zin
Method of installing		-	
			11 PUC
CASING PULLING] -	
Method employed			1 1
Casing retrieved (feet)			1.1
Casing type/dia. (in)	1		
Casing perforating Equipment used Number of perforations/foot Size of perforations			[[[]]]
Interval perforated			=
GROUTING			18.
Interval grouted (FBLS)	23.71000		4.
# of batches prepared		-	
For each batch record:			[:]
Quantity of water used (gal.)	75als	_	
Quantity of cement used (lbs.)	941bc.		THE STATE OF THE S
Cement type Quantity of bentonite used (lbs.)	Type I/IL	-	اتًا
Quantity of calcium chloride used (lbs.)	31bs.	-	[5]
Volume of grout prepared (gal.)	11.0gg/s		直
Volume of grout used (gal.)	4. 150 ls.		23.7
COMMENTS: Placed Tremme Dine	to the Rotton at the Hole		
3.7 FT) + Grouted. Then we put	, , , , , ,	* Sketch in all releva	nt decommissioning data
Drilled well out with Aven a	id toppedoful		overdrilled, interval grouted,
Growto + Back Pilled Surfade		casing left in hole,	
- and st	0		• •
Drilling Contractor		Dept Represent	ative



Site Name: River Rd IC	IDA	Well I.D. B-03 j	
	nawanda NY		Marris
D.: 11	sious Kn	Inspector:	7-101115
		Date: /2-5-/3	/17-1 17
		723 73	12-6-13
DECOMMISSIONING		WELL SO	CHEMATIC*
(fill in all that app	!y)		- Hin
		Depth	DO in
OVEDDBILLING		(feet)	Casia
OVERDRILLING Interval drilled		<u> </u>	
Drilling Method(s)		_	1 1 1
Borehole Dia. (in)			1 1 11
Temporary Casing Installed? (y/n)		-	1
Depth temporary casing installed			1.1
Casing type/dia. (in.)			a in
Method of installing		-	1211
			I X PVC
CASING PULLING		_	
Method employed Casing retrieved (feet)			
Casing type/dia. (in)		-	11 =
edonig typordid. (m)		-	
Casing perforating] -	
Equipment used		-	
Number of perforations/foot			
Size of perforations			
Interval perforated			
GROUTING	1		
Interval grouted (FBLS)	18010 0.0	 -	efe plus en
# of batches prepared	70.000.0	<u> </u>	
For each batch record:		_	5
Quantity of water used (gal.)	Teals	-	15
Quantity of cement used (lbs.)	941bs.		
Cement type	Type I/II	_	(2)
Quantity of bentonite used (lbs.)	1316s.	_	
Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.)		_	[7]
Volume of grout used (gal.)	1/39/5	-1	[2]
	3.1		18.0
COMMENTS: Placed Tremme pipe to	the bottom of the hole (120)		,,,,,
+ Grouted. Them Removed Droca	sing with Excumption	* Sketch in all relevant	decommissioning data
Below 4FT + Backfilled Surface		including: interval over	erdrilled, interval grouted,
11 - 11	*	casing left in hole, we	ell stickup, etc.
J	\mathcal{O}		
Drilling Contractor		Dept Representati	ve



Site Name: River Rd FC	IDA	Well I.D. 640-04	10
611 1 7 7	rawanda NY	Driller: Andrew	Marrie
Drilling Co: Farth Dingensie	n Z	Inspector:	10772
		Date: /2-5-/3	
	<u></u>	Date: 12-3-15	
DECOMMISSIONING	DATA	WELL SCHE	MATIC*
(fill in all that app	ly)		
OVERDRILLING		Depth (feet)	Pro Casin
Interval drilled		 ,	——————————————————————————————————————
Drilling Method(s)		-	
Borehole Dia. (in)			}
Temporary Casing Installed? (y/n)			1 (
Depth temporary casing installed			1 1
Casing type/dia. (in.)			11
Method of installing		_	Zin
CASING PULLING		_	Zin
Method employed			I Fu
Casing retrieved (feet)		·	1 1
Casing type/dia. (in)		-	
		-	
Casing perforating] -	
Equipment used			国
Number of perforations/foot			
Size of perforations		_	
Interval perforated		_	
GROUTING			[-]
Interval grouted (FBLS)	10.360.0	 -	[5]
# of batches prepared	/	_	[=]
For each batch record:			=
Quantity of water used (gal.)	Tsols		-
Quantity of cement used (lbs.)	94162,		
Cement type Quantity of bentonite used (lbs.)	Type I/II	_	
Quantity of calcium chloride used (lbs.)	3/bs.	_	
Volume of grout prepared (gal.)	1/2-1	-	
Volume of grout used (gal.)	11391	-	
			10.3
COMMENTS: Placed Tremme Dipe	to the bottom of the Hole.		
10,31-Grated. Then removed D	ro casine us Ith Fralphon	* Sketch in all relevant dec	
Relow 4FT + Bock filled Surt	ace O	including: interval overdri	
71 1 1 1 1 1		casing left in hole, well st	ickup, etc.
_land lile	6		
Drilling Contractor		Dent Representative	



04- N 2 - 9 / 55	== 1		
Site Name: Piver Rd FC		Well I.D. MW-C	2600
Site Location: Piver Rd To	nawanda WY	Driller: Andven	alorris
Drilling Co: Earth Dinsen	sions Inc	Inspector:	
		Date: /2-5- /3	3
	<u> </u>		
DECOMMISSIONING		WELL SO	CHEMATIC*
(fill in all that app	ly)	<u> </u>	6
		Depth	Bi
OVERDRULING		(feet)	III I P
OVERDRILLING Interval drilled		<u> </u>	
Drilling Method(s)	-	_	
Borehole Dia. (in)		-	
Temporary Casing Installed? (y/n)		-	
Depth temporary casing installed			1111
Casing type/dia. (in.)		/ 	1 1 7
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		<u> </u>	
Interval perforated			
GROUTING		_	TODA
Interval grouted (FBLS)	56.240.0		- TOPO
# of batches prepared	1		- Kack
For each batch record:			
Quantity of water used (gal.)	7991	_	121
Quantity of cement used (lbs.)	941bs.		[3]
Cement type	TURE I/II		15
Quantity of bentonite used (lbs.)	1316s.		[2]
Quantity of calcium chloride used (lbs.)			
Volume of grout prepared (gal.)	1/59/		[F]
Volume of grout used (gal.)	9.6901]	56.Z
COMMENTS: Placed Tremme pipe	to the hope It	1	
Mole (56.2) + Growled, Dus out	around Gin BIP	* Sketch in all relevant	decommissioning data
- Torchood off pipe Below 4FT	and Back filled		erdrilled, interval grouted,
Surface. 1		casing left in hole, we	ell stickup, etc.
In 1 AM	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,	• •
Drilling Contractor		Dent Penrepentati	



Site Name: River Rd FCTD	- A		
Mag.		Well I.D. B-02	D
D. W. C. C. V. C.	mawanda DY	Driller: Andva	U MOVNIS
Drilling Co: Earth Dimens	Ion Inc	Inspector:	
		Date: 12-4/-/3	
DECOMMISSIONING (fill in all that app		WELL SO	CHEMATIC*
(iii ii as trat app	עני)	Depth	J. Yin
		(feet)	
OVERDRILLING		` '	Casi
Interval drilled			——————————————————————————————————————
Drilling Method(s)		-	1 1 1 1
Borehole Dia. (in)		-	/ / / /
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Depth temporary casing installed]	1 1
Casing type/dia. (in.)			
Method of installing		_	Zin PUC.
CASING PULLING		_	PUC.
Method employed		_	11 '
Casing retrieved (feet)	 		
Casing type/dia. (in)			
		-	1 1
Casing perforating] -	
Equipment used			1.1
Number of perforations/foot			<u></u> L−1
Size of perforations			=
Interval perforated			
GROUTING		_	27. 27. 16.
Interval grouted (FBLS)	22 to 0.0		
# of batches prepared			Segretary of the segret
For each batch record:			7.20 *Cold. ************************************
Quantity of water used (gal.)	760	_	The Control of the Co
Quantity of cement used (lbs.) Cement type	991bs.		- Common of the
Quantity of bentonite used (lbs.)	Type - /TL	 	See
Quantity of calcium chloride used (lbs.)	S/bs.		E
Volume of grout prepared (gal.)	1/20/2	_	=
Volume of grout used (gal.)	3.7591	<u> </u>	
	3.73541		ZZFT
COMMENTS: Placed Tremme pi	ac to the bottom of the		
Hole (ZZFT)+Growted. Puller	1 out Pro Coxing Yulell		decommissioning data
then over drilled w/ Augen	to Balour 447	including: interval over	erdrilled, interval grouted,
and lopped off w/ Chip And Pac	tilled Surface,	casing left in hole, we	ell stickup, etc.
/h 1 //			
Drilling Contractor		Dent Representati	



Site Name: River Ad Ec	FDA	Well I.D. HWIZ	<
Site Location: River Rd.		Driller: Andrey	Morris
Drilling Co: Farth Dimen:	sion Inc.	Inspector:	27 18111
		Date: 12-4-13	
DECOMMISSIONING		WELL SO	CHEMATIC*
(fill in all that app	oly)		(1:14
		Depth (feet)	4in
OVERDRILLING		(lect)	11 Prasig
Interval drilled		 - ₁	
Drilling Method(s)		-	1111
Borehole Dia. (in)			[] []
Temporary Casing Installed? (y/n)		-	1 [1
Depth temporary casing installed			11
Casing type/dia. (in.)			1.1
Method of installing		_	1 7in
CASING PULLING			PUC
Method employed		_	1 7 700
Casing retrieved (feet)			î i
Casing type/dia. (in)			1 1
		-	
Casing perforating			
Equipment used			
Number of perforations/foot			
Size of perforations			[=]
Interval perforated			
GROUTING		[_]	
Interval grouted (FBLS)	17.400.0		
# of batches prepared	17-18-0.0		[-]
For each batch record:		-	
Quantity of water used (gal.)	790/5	_	\ \(\bar{\sigma}\)
Quantity of cement used (lbs.)	941bs.		2
Cement type	Type I/I		
Quantity of bentonite used (lbs.)	13/hs.] ~ [
Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.)		_[<i>-</i>
Volume of grout prepared (gal.)	1/30/		[=]
y orall or grout dood (gail.)	Z. 1991s.		[=] 12FT
COMMENTS: Placed Tremmepipe	to the bottom Att.		
6/e (1) + Carouted . Then Pulled	dout ProCasing + Well	* Sketch in all relevant	decommissioning data
xot, then over drilled to Bolow	4FT + Toppedof	including: interval ove	erdrilled, interval grouted,
wof Chips, and Back filled s	by face.	casing left in hole, we	ell stickup, etc.
(han a All			
Drilling Contractor		Dept Representati	we
		- Aprivabiasalifafi	40