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To: Bureau of Water Resource Management
625 Broadway
Albany, NY 12233-3508

From: Langan Engineering & Environmental Services, Inc.
1300 Wilson Boulevard, Suite 450
Arlington, VA 22209-2323

Date: August 26, 2021

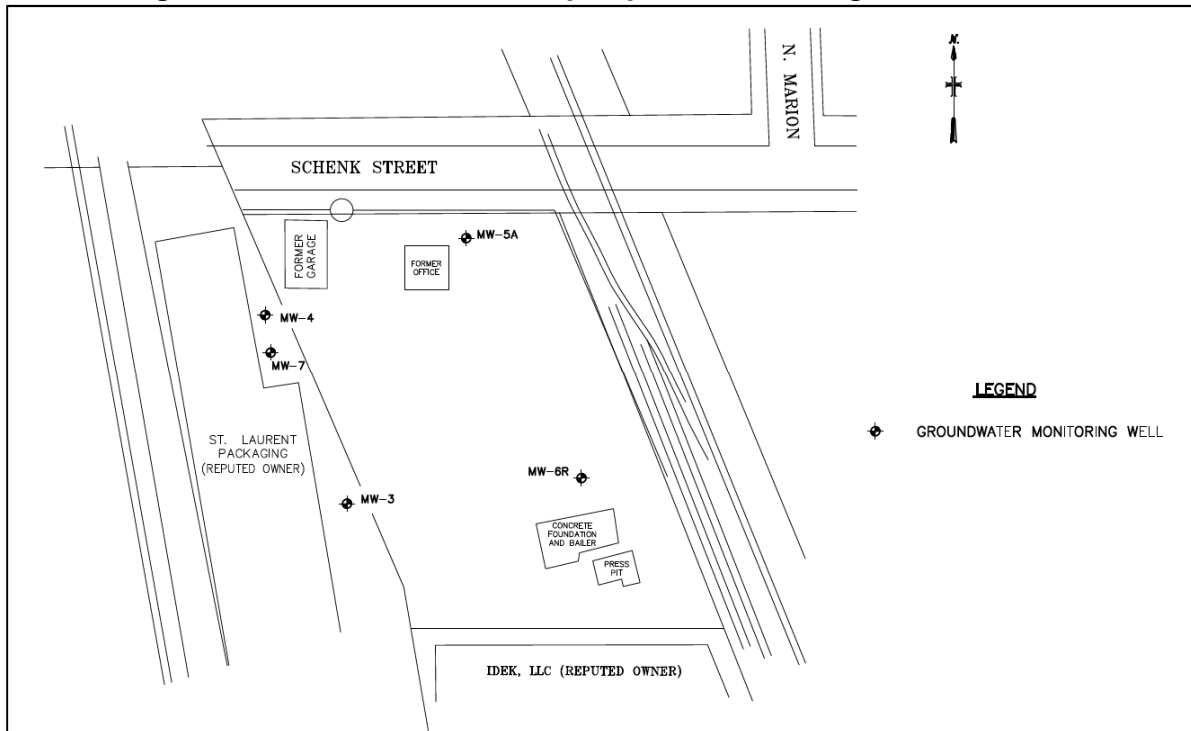
Re: Monitoring Well Abandonment Report
55 Schenck Street
North Tonawanda, NY 14120

To whom it may concern,

Langan Engineering and Environmental Services, Inc. along with Nothnagle Drilling, Inc. (New York State Department of Environmental Conservation Registered Driller Number NYRD#10072) completed the abandonment of five monitoring wells located on the WestRock CP LLC-owned property at 55 Schenck Street in North Tonawanda, NY on August 24, 2021.

The following figure provides a map of the property along with the wells that were abandoned. Photos of the abandonment effort are presented in Attachment 1.

Figure 1. 55 Schenck Street Property and Monitoring Well Locations



Abandonment Report

Monitoring Well Abandonment Report
55 Schenck Street
North Tonawanda, NY 14120
August 26, 2021- Page 2 of 2

The table below provides a short summary of the abandoned wells. Additional information is also provided in the Well Decommissioning Records in Attachment 2.

Table 1. Abandoned Well Summary

	MW-6R	MW-3	MW-7	MW-4	MW-5A
Abandonment Date	8/24/2021				
Start Time	9:30	10:45	12:00	12:30	13:20
Well Construction	2" stainless steel with 6" grouted stainless steel protective casing; stickup	2" stainless steel with 4" grouted stainless steel protective casing; stickup	2" PVC well; flush mounted	2" stainless steel with 4" stainless steel protective casing; stickup	2" PVC well; flush mounted
Water Depth (From Ground)	9.55 feet	9.39 feet	7.63 feet	7.30 feet	9.08 feet
Total Depth (From Ground)	16.20 feet	11.90 feet	24.50 feet	11.27 feet	17.55 feet
Well Volume	2.59 gallons	1.90 gallons	3.92 gallons	1.80 gallons	2.81 gallons
Grout Mixture	7.8 gallons of water : 94 lbs. of type 1 Portland cement : 3.9 lbs. of bentonite				
Grout Volume Used	6 gallons	4 gallons	7 gallons	6 gallons	6 gallons
Method/ Process	Removed concrete from surface; cut 6" casing and 2" well to 1 ft. below grade; tremie grouted; covered with sand, then native soil, and then sod.	Removed concrete from surface; cut 4" casing and 2" well to 1 ft. below grade; tremie grouted; covered with native material/soil.	Removed surface completion box; cut 2" PVC well to 2 ft. below grade; tremie grouted; backfilled with native soils.	Removed surface completion and 4" protective casing; cut 2" well 1 ft. below grade; tremie grouted; backfilled with native soils.	Removed surface completion box; cut 2" PVC well to 1 ft. below grade; tremie grouted; backfilled with native soils.
Finish Time	10:40	11:45	12:20	13:15	14:20

ENCLOSED


Attachment 1 – Photo Log
Attachment 2 – Well Decommissioning Records

ATTACHMENT 1

Photo Log


Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 1		
Description: Property map with well locations			


Date 8/24/2021	Photo No. 2	
Description: MW-6R before abandonment		

Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 3		
Description: Cut casing and well at MW-6R			


Date 8/24/2021	Photo No. 4		
Description: MW-6R after tremie grout; before being covered with sand and native soils			

Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 5		
Description: MW-6R post surface restoration			


Date 8/24/2021	Photo No. 6	
Description: Type 1 Portland cement used in grout mix for all wells		

Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 7	Description: Bentonite powder used in grout mix for all wells	
			

Date 8/24/2021	Photo No. 8	Description: MW-3 before abandonment	
			

Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 9		
Description: MW-3 after the well had been grouted and capped, before sand and native material was used to restore the surface			


Date 8/24/2021	Photo No. 10	
Description: MW-3 post surface restoration		

Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 11		
Description: MW-7 before abandonment			


Date 8/24/2021	Photo No. 12		
Description: MW-7 after the PVC has been internally cut, tremie grouted, (and covered with sand			

Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 13		
Description: MW-7 after surface restoration			

Date 8/24/2021	Photo No. 14	
Description: MW-4 being prepped for tremie grout		

Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 15		
Description: MW-4 after surface restoration			

Date 8/24/2021	Photo No. 16	
Description: MW-5A		

Client Name: WestRock CP LLC		Site Location: 55 Schenck St, North Tonawanda, NY 14120	Project No. 270120101
Date 8/24/2021	Photo No. 17		
Description: MW-5A after road box was removed, well was cut, and tremie grout was poured			

Date 8/24/2021	Photo No. 18		
Description: MW-5A after surface restoration; a small amount of remaining cement was applied to the rocky material to avoid deterioration in the trucking area			

ATTACHMENT 2

Well Decommissioning Records

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: <i>Schreck's Scrapyard</i>	Well I.D.: <i>MW-6R</i>
Site Location: <i>SS Schreck St.</i>	Driller: <i>T. Mangeford</i>
Drilling Co.: <i>Nathnagle Drilling</i>	Inspector:
	Date: <i>8-24-21</i>

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
<u>OVERDRILLING</u>		Depth (feet)	
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)	<i>16'2" - 1' BGS</i>		
# of batches prepared	<i>1</i>		
For each batch record:			
Quantity of water used (gal.)	<i>7.8</i>		
Quantity of cement used (lbs.)	<i>94</i>		
Cement type	<i>TYPE I</i>		
Quantity of bentonite used (lbs.)	<i>3.9</i>		
Quantity of calcium chloride used (lbs.)	<i>—</i>		
Volume of grout prepared (gal.)	<i>11</i>		
Volume of grout used (gal.)	<i>6</i>		

COMMENTS: *Removed Concrete from surface*
Cut 6" protective casing 1' BGS and cut
2" stainless 1' BGS Trench grout abandoned
Back filled with surrounding Native soil

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

Drilling Contractor

Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: <i>Schreck's Scrapyard</i>	Well I.D.: <i>1 MW-3</i>
Site Location: <i>55 Sherick St.</i>	Driller: <i>T. Mangetrida</i>
Drilling Co.: <i>Nottnage Drilling</i>	Inspector:
	Date: <i>8-24-21</i>

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
<u>OVERDRILLING</u>		Depth (feet)	
Interval Drilled		0	
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed		5	
Casing type/dia. (in.)			
Method of installing			
<u>CASING PULLING</u>		10	
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)	<i>11.9'-1' BGS</i>		
# of batches prepared	<i>1</i>		
For each batch record:			
Quantity of water used (gal.)	<i>7.8</i>		
Quantity of cement used (lbs.)	<i>94</i>		
Cement type	<i>TYPE I</i>		
Quantity of bentonite used (lbs.)	<i>3.9</i>		
Quantity of calcium chloride used (lbs.)	<i>-</i>		
Volume of grout prepared (gal.)	<i>11</i>		
Volume of grout used (gal.)	<i>4</i>		

COMMENTS: *Removed Concrete from surface*
Cut 4" Pro casing 1' BGS and cut 2" stainless
1' BGS Tremie grout abandoned Backfilled
with surrounding Native

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

Drilling Contractor

Department Representative

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: <i>Schenk's Scrapyard</i>	Well I.D.: <i>MW-7</i>
Site Location: <i>SS Schenk St.</i>	Driller: <i>T. Mangeltrida</i>
Drilling Co.: <i>Notnagle Drilling</i>	Inspector:
	Date: <i>8-24-21</i>

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
OVERDRILLING		Depth (feet)	
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)	<i>24.5' - 2' BGS</i>		
# of batches prepared	<i>1</i>		
For each batch record:			
Quantity of water used (gal.)	<i>7.8</i>		
Quantity of cement used (lbs.)	<i>94</i>		
Cement type	<i>TYPE I</i>		
Quantity of bentonite used (lbs.)	<i>3.9</i>		
Quantity of calcium chloride used (lbs.)	<i>—</i>		
Volume of grout prepared (gal.)	<i>11</i>		
Volume of grout used (gal.)	<i>7</i>		

COMMENTS: *Removed surface Completion
Cut 2" PVC off 2' BGS and Tremie
grout abandoned. Back filled with
surrounding native.*

Thomas H. Mangeltrida
Drilling Contractor

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

Department Representative

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: <i>Schvecks Scrapyard</i>	Well I.D.: <i>MW-4</i>
Site Location: <i>SS Schenk St.</i>	Driller: <i>T. Mangelida</i>
Drilling Co.: <i>Notnagle Drilling</i>	Inspector:
	Date: <i>8-24-21</i>

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
<u>OVERDRILLING</u>		Depth (feet)	
Interval Drilled		0	
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed		5	
Casing type/dia. (in.)			
Method of installing			
<u>CASING PULLING</u>			
Method employed		10	
Casing retrieved (feet)			
Casing type/dia. (in.)			
<u>CASING PERFORATING</u>			
Equipment used		15	
Number of perforations/foot			
Size of perforations			
Interval perforated			
<u>GROUTING</u>			
Interval grouted (FBSL)	<i>11.3' - 1' BGS</i>		
# of batches prepared	<i>1</i>		
<u>For each batch record:</u>			
Quantity of water used (gal.)	<i>7.8</i>		
Quantity of cement used (lbs.)	<i>94</i>		
Cement type	<i>Type I</i>		
Quantity of bentonite used (lbs.)	<i>3.9</i>		
Quantity of calcium chloride used (lbs.)	<i>-</i>		
Volume of grout prepared (gal.)	<i>11</i>		
Volume of grout used (gal.)	<i>6</i>		

COMMENTS: *Surface Completion and 4" protective casing removed 2" stainless cut 1' BGS. Tremie grout abandoned. Backfilled with surrounding native*

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

Drilling Contractor

Department Representative

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: <i>Schreck's Scrapyard</i>	Well I.D.: <i>MW-5a</i>
Site Location: <i>55 Schenk St.</i>	Driller: <i>T. Mangefride</i>
Drilling Co.: <i>Nottnagle Drilling</i>	Inspector:
	Date: <i>8-24-21</i>

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
OVERDRILLING		Depth (feet)	
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)	<i>17.5' - 1' BGS</i>		
# of batches prepared	<i>1</i>		
For each batch record:			
Quantity of water used (gal.)	<i>7.8</i>		
Quantity of cement used (lbs.)	<i>94</i>		
Cement type	<i>Type I</i>		
Quantity of bentonite used (lbs.)	<i>3.9</i>		
Quantity of calcium chloride used (lbs.)	<i>—</i>		
Volume of grout prepared (gal.)	<i>11</i>		
Volume of grout used (gal.)	<i>6</i>		

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

Drilling Contractor

Department Representative