### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9 270 Michigan Avenue, Buffalo, NY 14203-2915 P: (716) 851-7220 | F: (716) 851-7226 www.dec.ny.gov

May 23, 2018

Mr. Gregory L. Simpson Senior Project Manager Textron 40 Westminster Street Providence, Rhode Island 02903

Dear Mr. Simpson:

Textron, Inc. EPA ID No. **NYD002106276** Order on Consent, Index No. 932052-01-04 Operation and Maintenance Inspection Report Site #932052

The New York State Department of Environmental Conservation (the "Department") conducted an Operation and Maintenance inspection on April 18, 2018 of the groundwater monitoring program at the Textron Inc. facility in Wheatfield, NY. Based upon the Department's inspection of sample collection and review of associated documents, the Department has determined that Textron Inc. is in compliance with the Ground Water Monitoring Plan and the Order on Consent, Index No. 932052-01-04. The inspection report is attached.

If you have any questions regarding this inspection, please contact me at (716)851-7220.

Sincerely,

Stanley Radon, P.G. Regional Remediation Geologist

Attachments

ec. Cecelia Byers (<u>cecelia.byers@aptim.com</u>) Kevin Cronin (kevi.cronin@shawgrp.com)



Department of Environmental Conservation

### OPERATION AND MAINTENANCE INSPECTION TEXTRON Inc. WHEATFIELD, NEW YORK

#### Introduction:

On April 18, 2018 Stanley Radon, P.G., conducted an Operation and Maintenance Inspection at the Textron Inc., Facility, EPA I.D. No. NYD002106276. The evaluation included review of documents related to the operating record and sampling plan and observation of groundwater sample collection.

#### **Background**:

The Order on Consent, Index No. 932052-01-04, requires Textron Inc. to operate a corrective action program in accordance with the Groundwater Monitoring Plan (GMP) and Site Management Plan (SMP). The groundwater corrective action system is comprised of two components.

1. Off-site System: The system consists of three (3) extraction wells which are piped to the Niagara County Sewer District No. 1 POTW. The goal of the off-site groundwater pumping system is to reduce the size of the dissolved phase plume boundary.

2. On-Site System: The main system consists of three (3) recovery wells designed to hydraulically contain the DNAPL plume and contain aqueous-phase contamination, and two (2) extraction wells to control off-site migration of aqueous-phase contamination. The groundwater extracted from the on-site extraction system is piped to the on-site groundwater treatment plant. Currently, the on-site system is in the middle of a year-long bioremediation pilot study to determine the effectiveness of the same. The on-site pumping wells have temporarily been shut off during this period. The Department will make a determination if the extraction system will be resumed at the end of the bioremediation study.

#### Sampling:

On April 18, 2018, Stanley Radon of the New York State Department of Environmental Conservation observed staff from APTIM Environmental, Inc. and ALS Environmental, sample several groundwater wells. Specifically, sampling of wells EW-3 and EW-4 were observed to

determine compliance with the GMP. All of the aforementioned wells are part of the off-site ground water extraction system and monitoring program.

All the wells were under a manhole cover and in good condition. Groundwater level measurements were made using an electronic water level indicator graduated to 0.01 ft. The water level indicator was decontaminated by triple rinsing with de-ionized water prior to measuring the elevations in each well. Well volumes were then calculated to determine purge volumes and each well was purged three well volumes prior to obtaining the groundwater sample.

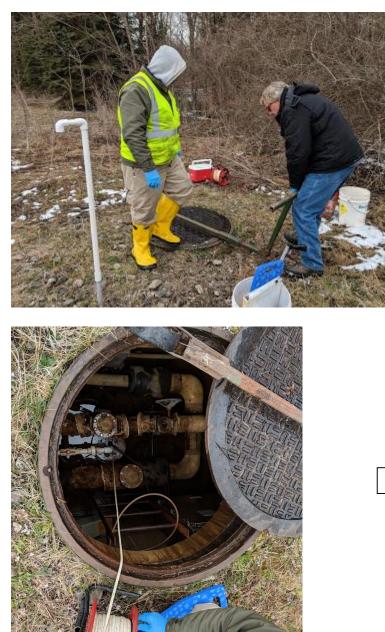
Samples were collected for Volatile Organic Compounds (VOCs) and all 40 ml containers were checked for air bubbles. All sample equipment is dedicated to each monitoring well. Sample containers were stored in a cooler containing ice.

Pictures showing the various stages of sampling are in Attachment A. Attachment B includes the field sampling data sheets and the chain of custody forms for all samples collected during the inspection.

#### Summary:

Based upon review of the Groundwater Monitoring Plan, oversight of groundwater sample collection, and review of company records, the Department has determined that Textron is in compliance with the GMP and Order on Consent. The Department will analyze the results of the sample data in the Annual Monitoring Report to determine the efficiency of the extraction systems in reducing the extent of the contaminant plume.

# ATTACHMENT A



Removing manhole cover from EW-4

Checking groundwater elevations



Checking field parameters for purge from monitoring well EW-4



Collecting VOA samples in 40m ml. container

# ATTACHMENT B



# CHAIN OF CUSTODY/LABORATOR NALYSIS REQUEST FORM

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE \_\_\_\_\_OF \_\_\_\_

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Project Name TEXTILON WHEATFIELD MY 63/23 Project Manager	6320			A	NALYSIS R	EQUES	STED (	(Include	e Meth	od Nu	mber	and C	ontair	er Pre	servativ	e) 🚑 🥂
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BAT-EW-2-180418 MS		3	X	3.0											S	
BAT-EW-Z-180418 MSA		3	X	·												
BKT-EN-3-180418	1035	3	X													
BAT-GW-4-180418	1100	3	X													
BAT-EW-5-180418	17.00	2	X													2 5
BOT-EW-6-180418	1215	3	X													
BAT-93-03(1)-180418	12.45	3	X								-		1.0			•
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RAT- DJP01-180418 4/18	118	3	X						-	-		-	_			
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A 1 1 12 12 12				STHA	MAN.				III. Resu	lts + QC	C and Ca	alibratior	1	BILL	TO:	and the second
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а 2	98 - <sup>18</sup>								IV. Data	Validati	on Répo	ort with F	Raw Data	a	_	
See QAPP		1														
STATE WHERE SAMPLES WERE COLLECTED									Edata		_Yes		No			
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Project Number: 631236330   Well Number: EW- Z_   Date: 04/ 18 /2018   Field Personnel: K. Cronin, Bob Urban (ALS te Physical Condition of Well:   Good Well Diameter:		
Date: 04/18/2018 Field Personnel: K. Cronin, Bob Urban (ALS te Physical Condition of Well: Good	ech.)	
Field Personnel: <u>K. Cronin, Bob Urban (ALS te</u> Physical Condition of Well: <u>Good</u>	ech.)	
Physical Condition of Well: Good	5011.)	
Well Diameter' A		
	*Vo	lume Factors: (circle one)
Air Monitoring Results: 0,0 ppmy Depth to Water: $\sim 5.36$		25-inch well = 0.064 gal/ft
Depth to Bottom:	2-ii	nch well = $0.163$ gal/ft
Purge Volume	4-ii	nch well = 0.653 gal/ft
Volume Removed: ~ CAACS		
Purge Method: circle one		
Stainless Steel Dedicated Poly Tubing Whale Pump	Polyethylene	Grundfos Submersible
Bailer from Sampling Port with ET Tubing	g Bailer	Pump
Purge Water Disposal: Drummed for Offsite Treatment		
Turge Water Disposal. <u>Drammed to: Onside Treatment</u>		5.
PARAMETERS pH Spec. Cond.	Temp.	Sample
Units s.u. ms/cm	°C	Description
Initial Purge7.55319	10.92	clear
Final Purge $7.29$ / $559$	1. 70	Linear
Final Purge	10.70	clear
Sampling Method: circle one		
Sumpring Method. Chele one		
Stainless Steel Dedicated Poly Tubing Whale Pump	Polyethylene	Grundfos Submerisble
Bailer from Sampling Port with ET Tubing	g Bailer	Pump
Sample Number: <u>BAT- EW- Z -180418</u>		
Sample Collection Date/Time: 04/ 18 /2018 [015		
Analysis Requested: EPA Method 8260		
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Notes: MJ/MJD CULLECTED HO VAULT FLOUDED, LEFT WELL IN	LE	10 000 40
VAULT FLOUDED, LEFT WELL IN	J MANUAL	AS PER CIS

	Former Textron Wheatfie	Id Facility		
	r:631236330			
Well Number:				
Date: 04/18		Urban (ALS tech		
Field Personne Physical Condi	tion of Well: Good	TOTUAL (ALS LECH		
Well Diameter				
Air Monitoring		 ιν	*Vol	ume Factors: (circle one)
Depth to Water	- 5.14'		1.2	5-inch well = 0.064 gal/ft
Depth to Botto	m:		2-in	ch well = $0.163$ gal/ft
Purge Volume:			4-in	ch well = 0.653 gal/ft
Volume Remov				
Purge Method:	circle one			
Stainless Steel	Dedicated Poly Tubing	Whale Pump	Polyethylene	Grundfos Submersible
Bailer	from Sampling Port	with ET Tubing	Bailer	Pump
Purge Water D	isposal: Drummed for O	ffsite Treatment		
Turge Water D	isposul. Druinilled for o	insite reduition		
				0.1
PARAMETERS	•	Spec. Cond.	°C	Sample Description
Units	s.u.	_ms/cm		Description
Initial Purge	7.31	2.017	10.02	clear
Final Purge	7.23	1.602	9.75	clear
Sampling Meth	nod: circle one			
Stainless Steel	Dedicated Poly Tubing	Whale Pump	Polyethylene	Grundfos Submerisble
Bailer	from Sampling Port	with ET Tubing	Bailer	Pump
Sample Numb	er: <u>BAT-</u> <i>E</i> ω <u>-</u> 3 - 18	0418		
	tion Date/Time: 04/18			
Analysis Requ	ested: EPA Method 82	260		
Notes: VA	WUT FLOUDED)			
10000. <u>v</u> 1	<u>_</u>			
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			м 5	Carlos .
Sampler Signa	ture: Kerne	Cini	5	·

	Former Textron Wheatf	ield Facility		
Project Numbe				
Well Number:	EW- 4		_	
Date: 04/18	/2018			
Field Personne	I: K. Cronin, Bc	b Urban (ALS tec	h.)	
Physical Condi	ition of Well: Good			
Well Diameter	8"			
Air Monitoring	Results:0,0 pp	mv	*Vo	olume Factors: (circle one)
Depth to Water	r: Z6.99:			25-inch well = 0.064 gal/ft
	m:			inch well = $0.163$ gal/ft
Purge Volume:				inch well = $0.653$ gal/ft
Volume Remov				non went 0.000 gaint
Purge Method:	circle one			
Stainless Steel Bailer	Dedicated Poly Tubing from Sampling Port	Whale Pump with ET Tubing	Polyethylene Bailer	Grundfos Submersible Pump
Durgo Water Di				·
i uige water Di	isposal? <u>Drummed for C</u>	Itsite Treatment		
PARAMETERS				
Units	pH	Spec. Cond. ms/cm	Temp.	Sample
Onits	s.u.	IIIS/CIII	°C	Description
Initial Purge	7.40	1.870	11.12	clear
Final Purge	7.16	1.161	10.42	clear
Sampling Meth	od: circle one			
. 0		ê.		
Stainless Steel	Dedicated Poly Tubing	Whale Pump	Polyethylene	Grundfos Submerisble
Bailer	from Sampling Port	with ET Tubing	Bailer	Pump
Sample Number	DAT GUA IL 10			
		0418		]
	ion Date/Time: 04/18			
Analysis Reque	sted: EPA Method 82	60		
Notes: BAT	5- DUPO1-180	48 COLLO	eter Hen	LG
	1	0		
Sampler Signati	ire: Kun	(1,~~		
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Ducioat Minal-		ield Facility		
Project Number				
Well Number:_				
Date: 04/18			1	
Field Personnel		ob Urban (ALS tech	n.)	
Physical Condi				
Well Diameter:				
Air Monitoring	Results: 0,0 pr	omv		ume Factors: (circle one)
	·4.87			5-inch well = $0.064$ gal/ft
	m:			the well = $0.163$ gal/ft
Purge Volume:			4-in	such well = $0.653$ gal/ft
Volume Remov	ved: ~ 3 GALS			
Purge Method:		Whate Dump	Deluathulana	Grundfos Submersible
Stainless Steel Bailer	Dedicated Poly Tubing from Sampling Port	Whale Pump with ET Tubing	Polyethylene Bailer	Pump
Purge Water D	isposal: Drummed for	Offsite Treatment		
Tuibe mater 2	opeour. <u></u>			
PARAMETERS	pH	Spec. Cond.	Temp.	Sample
Units	s.u.	ms/cm	°C	Description
Onto		this/offi		
Initial Purge	7.57	1.672	8,79	clear
	0.722			
Final Purge	7.44	1.221	8.41	clear
Final Purge Sampling Meth		(	8.41	clear
Sampling Meth	od: circle one			
		Whale Pump with ET Tubing	Polyethylene Bailer	clear Grundfos Submerisble Purnp
Sampling Meth Stainless Steel Bailer Sample Numbe Sample Collect	od: circle one Dedicated Poly Tubing	Whale Pump with ET Tubing 80418 8 /2018 [Z O	Polyethylene	Grundfos Submerisble
Sampling Meth Stainless Steel Bailer Sample Numbe Sample Collect	nod: circle one Dedicated Poly Tubing from Sampling Port er: <u>BAT- <math>E \omega - 5</math> -1</u> tion Date/Time: <u>04/15</u>	Whale Pump with ET Tubing 80418 8 /2018 [Z O	Polyethylene	Grundfos Submerisble
Sampling Meth Stainless Steel Bailer Sample Numbe Sample Collect Analysis Reque	nod: circle one Dedicated Poly Tubing from Sampling Port er: <u>BAT- <math>\mathcal{E} \cup -5</math> -1</u> tion Date/Time: <u>04/15</u> ested: <u>EPA Method 8</u>	Whale Pump with ET Tubing 80418 8 /2018 [260	Polyethylene Bailer	Grundfos Submerisble
Sampling Meth Stainless Steel Bailer Sample Numbe Sample Collect Analysis Reque	nod: circle one Dedicated Poly Tubing from Sampling Port er: <u>BAT- <math>\mathcal{E} \cup -5</math> -1</u> tion Date/Time: <u>04/15</u> ested: <u>EPA Method 8</u>	Whale Pump with ET Tubing 80418 8 /2018 [260	Polyethylene Bailer	Grundfos Submerisble Purnp
Sampling Meth Stainless Steel Bailer Sample Numbe Sample Collect Analysis Reque	nod: circle one Dedicated Poly Tubing from Sampling Port er: <u>BAT- <math>\mathcal{E} \cup -5</math> -1</u> tion Date/Time: <u>04/15</u> ested: <u>EPA Method 8</u>	Whale Pump with ET Tubing 80418 8 /2018 [260	Polyethylene Bailer	Grundfos Submerisble Purnp
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Sampling Meth Stainless Steel Bailer Sample Numbe Sample Collect Analysis Reque	nod: circle one Dedicated Poly Tubing from Sampling Port er: <u>BAT- <math>\mathcal{E} \cup -5</math> -1</u> tion Date/Time: <u>04/15</u> ested: <u>EPA Method 8</u>	Whale Pump with ET Tubing 80418 8/2018 (20) 8260	Polyethylene Bailer	Grundfos Submerisble Purnp For SAMPUNG

	Former Textron Wheatfie	ld Facility		
Project Number				
Well Number:_				
Date: 04/18/ Field Personnel	/2018 V. Casaria Boh	Urban (ALS tech	<b>N</b> N	
Physical Condi		UTUAII (ALS ICCI	1.)	
Well Diameter:				
Air Monitoring		W.	*Voli	ume Factors: (circle one)
Depth to Water				5-inch well = $0.064$ gal/ft
Depth to Water				ch well = $0.163$ gal/ft
Purge Volume:				ch well = $0.653$ gal/ft
Volume Remov				
				a.
Purge Method:	circle one	x	1	
C			DEDICATED )	
Stainless Steel	Dedicated Poly Tubing	Whale Pump	Polyethylene /	Grundfos Submersible
Bailer	from Sampling Port	with ET Tubing	Bailer	Pump
Dunga Watar D	isposal: Drummed for O	Toite Treatment		
ruige water D	isposal. Druinmed for O	Isite Treatment		
PARAMETERS	pН	Spec. Cond.	Temp,	Sample
Units	s.u.	ms/cm	°C	Description
Initial Durgo	7.54	2.013	9.06	clear
Initial Purge				0104
Final Purge	7.70	1.047	8.63	clear
r mai r a go			2.2	
Sampling Meth	nod: circle one		$\square$	
1 0			DEDICATED	
Stainless Steel	Dedicated Poly Tubing	Whale Pump	Polyethylene	Grundfos Submerisble
Bailer	from Sampling Port	with ET Tubing	Bailer	Pump
	El Com			
	er: <u>BAT- EW-6 -18</u>			
	tion Date/Time: 04/18			
Analysis Keque	ested: EPA Method 82	00		
Notes:				
	1/	b		
Sampler Signa	ture: burn (	no		

Site Name:	Textron, Wheatfield, NY	·····	-	
Project Numbe	r: 631236330		e:	
Well Number:	MW- 93-03(1)			
Date: 04/18			•:	
	l: <u> </u>			
	tion of Well: <u>Good</u>			
Well Diameter:				
-	Results: 0.0 pp	mv	*Vol	ume Factors: (circle one)
Depth to Produ			1.0	<b>5</b> 1 11 0.064 - 1/0
Depth to Water				5-inch well = $0.064$ gal/ft
Depth to Botto	m: ~ 46.43 6.6 GA			nch well = 0.163  gal/ft
	1.6 0m		4-11	nch well = $0.653$ gal/ft
Volume Remov	ved:			
Purge Method: Stainless Steel Bailer	circle one Dedicated Poly Tubing from Sampling Port	Whale Pump with ET Tubing	Debi Cdrep Polyethylene Bailer	Grundfos Submerisble Pump
Purge Water D	isposal: In Plant for Tre	atment		
U	•			
PARAMETERS		Spec. Cond.	Temp.	Sample
Units	s.u.	ms/cm	°C	Description
Initial Purge	7.44	1.774	8.55	clear
Final Purge	7.18	1.849	10.05	clear
Sampling Meth	od: circle one		$\langle \rangle$	
1 0		1	DEDICATED )	
Stainless Steel Bailer	Dedicated Poly Tubing from Sampling Port	Whale Pump with ET Tubing	Polyethylene/ Bailer	Grundfos Submerisble Pump
Sample Collect	er:BAT- 93-03(1): ion Date/Time:04/ 18 ested:EPA Method 82	12018 1245	9	
Notes:				

Sampler Signature: \_\_\_\_\_\_

# Textron, Wheatfield Hydraulic Monitoring Event DATE: <u>84 ໃນ / ເຜຣ</u>

Well ID	Depth to Water	Comments
87-01(0)	~ 11.59'	To the left of the overhead doors of Felton Machine
87-01(1)	~ 12.95'	To the left of the overhead doors of Felton Machine
87-02(1)	~ 11.05'	Inside the Felton gate
87-02(3)	- 10.43'	Inside the Felton gate
87-04(0)	- 6.30	Inside ARC next to DW10, adjacent to Walmore Avenue
187-04(1)	- 9.42	Inside ARC next to DW10, adjacent to Walmore Avenue Andrew SS. Riser
87-04(3)	- 10.04	Inside ARC next to DW10, adjacent to Walmore Avenue
87-05(1)	~ 9.44'	Across entrance to ARC, next to DW-11
87-05(3)	~ 9.41'	Across entrance to ARC, next to DW-11
87-08(1)	-9.17	North area of ARC, east of DW-9
87-10(0)	~ 8.35	North of DW-12, in Textron parking lot, north of WWTP along Walmore
87-10(1)	~ 11.81'	North of DW-12, in Textron parking lot, north of WWTP along Walmore
87-12(1)	~11,79	Corner of Niagara Falls Blvd. Next to EW-8
87-13(0)	~9.70 5.61	West of DW-10 on ARC property
87-13(1)	~ 10,25	West of DW-10 on ARC property
87-13(3)	~ 9,77	West of DW-10 on ARC property
87-14(0)	- 5.14	On ARC property north of 87-13
87-14(1)	~ 9:10	On ARC property north of 87-13
87-14(3)	- 9.53	On ARC property north of 87-13
87-15(0)	- 5-621 9.70	On ARC property west of DW-9
87-15(1)	- 10.25 9,13	
87-15(3)	~ 9777 8.98	On ARC property west of DW-9 11 11 11 11
87-16(3B)	~ 9.92	On ARC property in triangular area SW of capped pond
87-17(0)	~ 9.79	ARC property southwest of DW-9
87-17(1)	- 8.93	ARC property southwest of DW-9
87-18(0)	~ 11.30	Next to EW-7 on NFB
87-18(1)	~ 14.15	Next to EW-7 on NFB
87-39	·) ~ 8. 12'	page 1 of 2

## Textron, Wheatfield Hydraulic Monitoring Event DATE: 04/10 / 2018

Well ID	Depth to Water	Comments
87-19(1)	~ 11.53	Old Textron Parking Lot along Cayuga Drive, closer to intersection of Walmore
87-20(0)	~ 3.65	Behind the bar on the corner of NFB and Walmore
87-20(1)	- 6.94	Behind the bar on the corner of NFB and Walmore
87-21(1)	~ 5.83	On Cuyga Drive near the power lines
87-22(1)	- 12.23	Off Niagara Road
89-04(1)	~ Z.35	Farm Property over Bridge off Niagara Road on right
89-12(1)	~ (1,30'	Next to DW-12 north of WWTP
89-14(0)	~ 6 20	East side of Walmore Ave, north of ARC - NEED GPS COORDINATES
89-14(1)		East side of Walmore Ave, north of ARC
89-15(1)		On ARC property, south of DW-10
93-03(1)	a la fil	South of EW-6, string hanging from power lines
96-01(1)	10 110	Next to EW-13
B-8(0)	m la ia	Rear of ARC property, wrong cap
B-14(1)	~ 10.51 N	Near Felton building, south of ARC entrance
EW-2	~5.38	VAULT FLOUDED, ONLY ~ 1" FROM BOTTOM OF OLECTI
EW-3	~5.14 0	n n
EW-4	- 26.99'	NOT FLOUDED :
EW-5		VAULT FLOODED SWITCH RUMP TO HAND
EW-6	~ 5.31'	u (í
EW-7	~ 8,71 (3)	WATER FLOWING DOWN INTO WALL FROM VAULT
EW-8	- 4.86	
DW-9	~ 0.01 (F)	FLOODED
DW-10	~ A112	
DW-11	~ 2.45' @	VAULT FLOODED, WATER GNTERING IN COSIDE
DW-12	-0,9+ E	
EW-13	~ 10.59'	

Extraction Wells water level elevation measured from top of yault grate.