## Engineering and Environmental Science



An Olgoonik Company

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October 20, 2022

Mr. Steven M. Scharf, PE Project Engineer Division of Environmental Remediation New York State Department of Environmental Conservation, Remedial Bureau A 625 Broadway, 12<sup>th</sup> Floor Albany, NY 12233-7015

#### Re: Remedial Investigation Results – Phase II of Onsite Work Groundwater Flow Direction Evaluation East Hampton Airport Site, NYSDEC Site #152250 200 Daniels Hole Road, Wainscott, NY FPM File No. 1028g-20-40 (02)

## Dear Steven:

On July 7, 2022, FPM Group (FPM) obtained depth to groundwater measurements at the existing onsite groundwater monitoring wells and nearby offsite monitoring wells for the East Hampton Airport Site. This work was conducted to further evaluate the direction of horizontal groundwater flow in the areas where groundwater vertical profiles and additional monitoring wells will be installed during Phase II of the onsite Remedial Investigation (RI) such that the proposed sampling locations can be confirmed or adjusted as needed. The procedures and results of this work are documented herein. The proposed vertical profile locations for each area of the Site are also evaluated. The proposed new monitoring well locations will be evaluated later, following completion of the vertical profile work.

## **Groundwater Elevation Measurement Procedures and Results**

### Preparatory Work

Prior to initiating fieldwork, the existing well elevations, depths, and multiple depth to water measurements were compiled into a master table for use in field-checking the new measurements and identifying and resolving any discrepancies. The data for this master table were obtained from the Site Characterization (SC) reports (initial and addendum) and information provided by the Suffolk County Department of Health Services (SCDHS) for their wells. Some datum discrepancies were noted and resolved sufficiently for the purpose of this initial groundwater flow direction evaluation.

It was also noted that the EH-P1 and EH-P2 locations and elevations were mixed between the initial SC and SC Addendum reports. The correct locations of EH-P1 and EH-P2 were confirmed in the field and the correct elevation measurements were confirmed by comparison to elevation information on the US Geological Survey Sag Harbor, NY quadrangle.

The airport manager was contacted prior to the start of the fieldwork to review the scope of work, confirm access, discuss the schedule, and determine what procedures might be needed to coordinate with ongoing flight operations. The tenants of the other Town-owned properties were also contacted to discuss the schedule and confirm access.

#### Field Work

At each targeted well location, FPM environmental professionals located and accessed the existing monitoring wells, as feasible. Some of the wells could not be located; each of these is noted on the attached Table 1, which includes a complete list of the Site wells and a partial list of the offsite wells installed by the SCDHS. Following well access, a decontaminated water level indicator (Solinst Model 101 P7) was used to measure the depth to the top of the water table to the nearest 0.01 foot. The depth of each well was also measured to assist with confirming the well's identification and its use as a water table well. The resulting data were recorded in a field logbook and checked against the previously-recorded information. Once the measurements were obtained at each well, the well was resecured.

The following Site groundwater monitoring wells were located, accessed, and measured: EH-A, EH-B, EH-C, EH-E, EH-P1, EH-P2, EH-1, EH-16, EH-18, EH-19A, EH-19A1, EH-19A2, and EH-19B. The following wells could not be located: EH-E1 and EH-B1 in the North Field Area, EH-SAS downgradient of the North Field Area, EH-161 and EH-162 in the Airport Parking Lot Area, EH-P3 along Daniels Hole Road, EH-19B1 associated with the Fire Training Facility, and EH-10 downgradient of the ARFF. Most of these wells were not identified or surveyed during the 2019 SC survey and it is possible that these were temporary wells. Grading and gravel placement had occurred in the EH-10 area and the well manhole lid was found loose on the ground, suggesting that this well was destroyed.

The following SCDHS wells in the Site vicinity were located, accessed, and measured: WPFC-4, WPFC-5, WPFC-6, WPFC-8, WPFC-9, WPFC-10, WPFC-11, WPFC-20, and WPFC-21. Wells WPFC-3 on a dirt road to the west of the airport and WPFC-7 on the LIRR track area to the south of the airport could not be located and are presumed lost.

#### Data Evaluation

The depth to water measurements were integrated with the top-of-casing elevations discussed above to determine the water table elevation at each location. The water table elevations were plotted on a scaled site plan and evaluated (see Figure 1, Attachment A). In some instances, the calculated water levels appeared to be inconsistent with nearby data. In these cases, the data were checked against the original logbook notes and survey information to assess the reason for the discrepancy. If no reason for the discrepancy was apparent, the data were marked with a (?) to indicate data uncertainty. Several of these discrepancies were noted to be associated with the SCDHS WPFC wells and, as the source and quality of the surveyed elevations for these wells are unknown, the water table elevations derived from these wells are considered suspect and were not honored during the contouring process.

The water level data were contoured to depict the directions of groundwater flow at the water table surface, as shown on Figure 1. Where the data are uncertain, the data that appear most accurate are contoured and the contours are dashed to indicate uncertainty. In general, the contours indicate a southeasterly direction of groundwater flow at the water table, consistent with prior results, although a more southerly direction of groundwater flow appears to be present toward the western portion of the airport.



#### Assessment of Proposed Vertical Profile Locations

Each proposed vertical profile location was assessed relative to the groundwater flow direction derived from the contour map and the intended purpose of the vertical profile. The proposed vertical profiles are shown on Figure 1 and, in the case of areas where several closely-spaced profiles are proposed, on additional figures in Attachment B. The groundwater flow directions are noted by arrows on the figures in Attachment B. Based on our assessment of the proposed profile locations and groundwater flow directions, the following are noted:

North Field Area – No proposed change in any locations (P1 through P6)

- <u>Airport Parking Lot Area</u> No proposed change in locations P9 through P13. Recommend moving P14 and P15 somewhat to the east, as shown on Figure 1, to provide better downgradient coverage.
- <u>Northeast Woods Plane Crash Site</u> No proposed change in any locations (P16 & P16A) <u>Runway Crash Areas</u> – No proposed change in locations P17, P17A, or P18. P20 was moved somewhat to the east to provide better spacing in relation to P42 (see below)
- <u>ARFF Station</u> No proposed change in most locations (onsite: P35 through P37, downgradient: P29, P31 through P34, P39). Recommend moving proposed location P38 somewhat to the northwest away from suspected source areas. Recommend moving proposed upgradient P19 location to the southwest along Industrial Road to provide better downgradient coverage.
- <u>EHFD Fire Training Facility</u> No proposed change in any locations (P-24 through P26, P26A, P27, and P40)

Two additional vertical profiles (P41 and P42) are proposed to be located upgradient and downgradient of a hangar near the airport control tower to assess groundwater quality in this area of the airport.

It is also recommended that when the locations and elevations of the vertical profiles are surveyed that the top of each well casing for the onsite wells and SCDHS wells in proximity to the site also be surveyed, with all surveying conducted relative to the NGVD 29. This is anticipated to provide a consistent reference for future groundwater flow direction evaluations.

Should you have any questions, please do not hesitate to call us at (631) 737-6200.

Sincerely,

Ben T. Cancemi, P.G. Senior Hydrogeologist Department Manager

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Stephanie O Davis, P.G. Senior Project Manager Vice President

Attachments BTC/SOD:sod S:\EH\EH Airport PFAS (Rigano)\RI\Phase II Onsite\Water Level Info\Waterlevelevaluation10-2022.Docx



## ATTACHMENT A

# TABLE 1- WATER TABLE MEASUREMENTSFIGURE 1 – GROUNDWATER CONTOURS



## TABLE 1EAST HAMPTON AIRPORT WATER TABLE DATA

	Top of PVC	PVC.	Depth to		
Well No	Flevation in Feet	Diameter	Groundwater	Total Depth	Water Table
Wen No.	(2018)	(inches)	(feet)	(feet)	Elevation (feet)
Onsite Wells	(2010)	(1101100)			
FH-A	31.83	1	21.86	30.80	9 97
EH-B	40.99	2	30.39	34.35	10.60
EH-B1*	41.02	1	Missing	-	-
FH-C	40.16	1	30.45	34 86	9 71
EH-E	40.79	1	30.30	34.74	10.49
EH-E1	Not surveyed	1	Missing	-	-
EH-P1	53.85	1	43.46	49.89	10.39
EH-P2	47.79	1	37.30	50.16	10.49
EH-P3	33.35	_	Missing	-	-
EH-1	41.76	2	32.31	38.82	9.45
EH-10	45.21	-	Missing	-	-
EH-16	36.28	1	26.30	33.13	9.98
EH-161	Not surveyed	1	Missing	-	-
EH-18	52.40	1	42.10	52.03	10.30
EH-19A	46.19	2	36.23	42.27	9.96
EH-19A1	Not surveyed	1	35.64	44.82	-
EH-19A2*	47.35	2	37.44	40.47	9.91
EH-19B	45.70	2	36.95	40.98	8.75
EH-19B1	Not surveyed	1	Missing	-	-
EH-SAS	Not surveyed	1	Missing	-	-
EH-162*	35.64	1	Missing	-	-
Offsite Wells in Site	Vicinity				
WPFC 3	51.48	-	Missing	-	-
WPFC 4	52.29	1	40.90	50.06	11.39
WPFC 5	44.82	1	33.77	39.75	11.05
WPFC 6	43.14	1	32.41	40.18	10.73
WPFC 7	42.00	-	Missing	-	-
WPFC 8	21.89	1	12.75	30.12	9.14
WPFC 9	23.62	1	14.79	30.11	8.83
WPFC 10	26.85	1	18.26	30.25	8.59
MW-10/WPFC 11	18.36	1	9.87	30.09	8.49
WPFC 20	19.68	1	8.40	9.78	11.28
WPFC 21	37.92	1	26.77	40.22	11.15

## **MEASUREMENT DATE: JULY 7, 2022**

Notes:

All depth measurements were made relative to the top of the well PVC casing.

Wells noted in Bold were not located on July 7, 2022.

2018 Top of PVC casing elevations measured relative to the "airport benchmark" (Site Characterization Report).

\* = top of casing measurments were adjusted by 0.93 feet from 2019 survey to match the airport benchmark.



## LEGEND:

	APPROXIMATE SITE BOUNDARY
PREVIOUS	GROUNDWATER SAMPLING LOCATIONS
<del></del> €н−е	MONITORING WELL/PIEZOMETER
▲SAS-1	TAP WATER SAMPLE
🕂 WPFC-8	SCDHS VERTICAL PROFILE
(11.28)	WATER TABLE ELEVATION IN FEET
(-)	WATER LEVEL DATA NOT OBTAINED
(11.28?)	WATER TABLE ELEVATION UNCERTAIN
10.5	WATER TABLE ELEVATION CONTOUR (DASHED WHERE INFERRED)
$\longrightarrow$	GROUNDWATER FLOW DIRECTION
PROPOSED	VERTICAL PROFILE SAMPLING LOCATIONS
<mark>0</mark> Р1	PROPOSED VERTICAL PROFILE LOCATION



## FPM GROUP

FIGURE 1 WATER TABLE CONTOURS JULY 7, 2022 EAST HAMPTON AIRPORT SITE

WAINSCOTT, NEW YORK

Drawn By: B.F. Checked By: S.D. Date: 7/28/22

## ATTACHMENT B

## VERTICAL PROFILE LOCATIONS (DETAILS)



		NYSDEC G	uidance Values											
Sample ID	B-37		Destruction	L 2000					ALC: NO DE	1000	1010			100 200
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Perfluorooctanesulfonic acid (PFOS)	105 76.9	0.88	3.7 (1.0)		1000	AC 14 1		CALL BARRIER	Pertiuoroocta	nesulfonamide	(FUSA)	0.41 J	-	07/40
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		1.1.1		Per and Polyfluoroalk 8:2 Fluorotelomer sulfor	yl Substances (PFA nic acid (8:2 FTS)	S) in microg 5.23	jrams per kilo -	gram	Per and Poly	Sample Date fluoroalkyl Substanc	9/22/20: es (PFAS) in mice	21 rograms per	kilogram	0.7.000	
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				Perfluorooctanesulfonic	acid (PFOS)	3.85	0.88	3.7 (1.0)			Sample Location	LP - 4	LP - 49	NTSDEC GL	
	1130	Sample ID	B-34 (Duplicate)	B-34 NYSDEC Gu	idance Values		- <del>6</del> -			Sample Depth Be	ow Grade (feet)	7	(duplicate) 7	Unrestricted Use	d P G
Contract Lines	Sample Depth Belo	w Grade (feet) Sample Date	0 - 0.5 0 - 0.5 9/23/2021	1 - 2 Unrestricted Use	Protection of Groundwater					Per and Polyfluoroa	Sample Date kyl Substances	9/2 (PFAS) in m	:2/2021 licrograms pe	r kilogram	- 64
100	Per and Polyfluoroa Perfluorooctanesulfor	Ikyl Substances (F nic acid (PFOS)	PFAS) in micrograms per kilogr 0.40 J 0.56 J	am 0.24 J 0.88	3.7 (1.0)	128				Perfluorododecanoic a Perfluorotetradecanoi	acid (PFDoDA) c acid (PFTeDA)	<0.22 0.66	J 0.41 J 0.77		Ŧ
Sample ID	EU 1981		NYSDEC Guidance Values		Trans Ma	2 <sup>15</sup> 7.			1 14	Perfluorotridecanoic a	cid (PFTrDA)	<0.22	J 0.40 J		
Sample Depth Below Grade (feet)	0-0.5 1-2 8-10	20 - 30	Unrestricted Protection of				P40				Sample L Sa	ocation Sto mple ID	LP - 5	NYSDEC Gui	dan
Sample Date Per and Polyfluoroalkyl Substances (I	9/23/2021 PFAS) in micrograms per kilogra	ım	Use Groundwater	-	Statil.					Sample De	epth Below Grad Samp	e (feet) le Date	7 9/22/2021	Use	Gr
Perfluorooctanesulfonic acid (PFOS)	0.61 J <0.21 U <0.20	U <0.19 U	0.88 3.7 (1.0)							Per and Poly Perfluorodode	fluoroalkyl Subs	tances (PF	AS) in microgr	ams per kilogi	ram
Sample ID	B-33 NYSDEC	C Guidance Values				X			-	Perfluoroocta	nesulfonic acid (P	PFOS)	0.42 J	0.88	1
Sample Depth Below Grade (feet)	0 - 0.5 1 - 2 Unrestric	cted Protection o		/		LP-	.3		1 Thomas	Perfluorotride	canoic acid (PFT)	rDA)	0.51 J		
Per and Polyfluoroalkyl Substances (PFA Perfluoroactanesulfonic acid (PEOS)	AS) in micrograms per kilogram	37(10)		/			ITY			Sec. 1		1		Sama	
		20			DE TRAININ	G FACI					-	-	iample Depth f	Jelow Grade (f	oot
				FI	IRL .	1	and the second		LP-4					Sample D	Jate
Boring ID	EH-19B1* NYSDEC Guidance Val			a second	and the second	2		OB27	-				erfluorooctanesu	fonic acid (PFOS	anc 3)
Sample Depth Below Grade (feet)	0-1 Unrestricted Protectio 0-1 Use Groundw	n of ater			20		3								E
Per and Polyfluoroalkyl Substances (PFA	AS) in micrograms per kilogram						σ.	1					Sample	Depth Below	Gra
Perluoronexane sulfonic acid (PFHXS) Perfluoroheptane sulfonic acid (PFHpS)	3.8 1.9						1			LP-5	1 an		Per and F	olyfluoroalkyl	Sub
Perfluoroportane sulfonic acid (PFOS) Perfluoropentanoic acid (PFPeA) Parfluoropentanoic acid (PFLVA)	12 0.88 3.7 (1.0 0.48 J			A PARTY A				100		Sec.	100		Perluorohe	ctane sulfonic a	acid
Perfluorooctanoic acid (PFOA)	3.8 0.66 1.1 (0.8	3)	OB34				3		and the		X	11	Pentation	eptanoic ació (F	*FR
		EH	I-19B1							BZ8					Sa
- Bit to	B3	6	FUTP					WA -		EH-1	1	5	Sample D	Jepth Below G S	irad amp
		3	MPOUND YARD			-		9 <sub>B31</sub>	P27.	X			Per and Perfluorod	Polyfluoroalky ecanoicacid (PF	I Su DA)
Sample ID Sample Depth Below Grade (feet) 0 -	B-36 NYSDEC Guid	dance Values			2 martin		V	4	<sup>B30</sup> 👳	B29 😣	1000	5	Perfluoroh Perfluoron	exanesulfonic ac onanoic acid (PF	bid (F FNA)
Sample Date Per and Polyfluoroalkyl Substances (PFAS)	9/23/2021 Use ) in micrograms per kilogram	Groundwater	B35	the and				1.0	-			-	Perfluoroo	stanesulfonio ac	id (P
Perfluorodecanoic acid (PFDA)         0.8           Perfluorooctanesulfonic acid (PFOS)         0.6	37         1.04         -           50         0.62         0.88	3.7 (1.0)					<b>~</b> /	The second second	-	TAL -				1	1
Perfluoroundecanoic acid (PFUnDA) 0.8	32 <0.19 U -		1997年1月1月1日		B	32	/ .			14 ° 0			2-1-	8	2
Sample ID	B-35 NYSDE	C Guidance Value	s									and and		- Al	
Sample Depth Below Grade (feet)	0 - 0.5 1 - 2 Unrestri	cted Protection of	of C				/L_L		24	- the		M to 3	The me	All site	
Per and Polyfluoroalkyl Substances (PF	AS) in micrograms per kilogram	27/10)				/	P2:			Sa	mple ID	B-29	NY:	3DEC Guidane	ce \
Perfluorooctanoic acid (PFOA)	0.27 J 0.32 J 0.66	5 1.1 (0.8)			2.4.4		0		Sam	ole Depth Belov Grad	e (feet) 0 - 0 le Date	9/22/2021	l – 2 Unre	estricted Pro Use Gr	oteo rour
A A PARENCE		Harry Cont						NAME OF STREET	Per a	nd Polyfluoroalkyl Su orooctanesulfonic acid (F	bstances (PFAS	in microg	ams per kilogr	am	3.7
	S PER AND	P26A		P26							THE REAL	100		-15	1
					1 (D 1000)	/	3502	<u>2 - 246</u>		Sample ID	B-30 B-30 (Duplic	9 ate) B	.30 NYSD	EC Guidance '	Vale
S	iample ID B-32	NYSDEC Guidar	nce Values	Sample ID	B-31	NYS	SUEC Guidan	ce Values	Sample Depth B	elow Grade (feet) 0	- 0.5 0 - 0	.5 1	- 2 Unrest	ricted Proter	ctio ndw.
Sample Depth Below Gra	ide (feet) 0 - 0.5 1 - 2	Unrestricted Pr	otection of Sample D	epth Below Grade (feet) Sample Date	U - U.5 1 9/22/2021	- 2 Unr	estricted Pro Use Gro	oundwater	Per and Polyfluo	Sample Date roalkyl Substances (F	9/22/2 FAS) in microgra	1021 ams per kilo	gram		
	ple Date 9/22/2021	Use Gi	roundwater Per and Po Perfluorodec	lyfluoroalkyl Substances anoic acid (PFDA)	(PFAS) in microgr 0.48 J <0.2	ams per kilo	gram	- 1	rennuorodecanoic Perfluorononanoic Dedlueronon	cid (PFDA) (PFDA) 0.	.21 U U.31 .22 J 0.24	J 0.3			-
Per and Polyfluoroalkyl S Perfluorooctanesulfonic acid (	(PFOS) 0.22 J <0.21 U	0.88	3.7(1.0) Perfluoronon	anoic acid (PFHxA) anoic acid (PFNA)	<pre>&lt;0.21 U 0.2 &lt;0.21 U 0.2 0.97 C 2.4 </pre>	z J 8 J	-	-	r emuorooctanesul Perfluoroundecano	c acid (PFUnDA) <	0.21 U 0.38	J <0.2		3.1	
1 Alert Andres	ALL	State of the	Perfluoround	ecanoic acid (PFUD)	0.32 J ≺0.2	20 U	-	-	200	Alter		TER. I	Jangest	6 86	ł
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ince Value	95	LP-1 l	LEACHIN	G STRUC	TURE		-
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m		1 P A S F				ATIONS.	
- 3.7 (1.0)						<u></u>	
2 		GROUNI		VERTICAL	PROFIL F		
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D	B-28	NY	SDEC Guida	ance Values			
t) 0-0	.5 1-2	Unrestric	cted Use	Protection Ground <del>y</del> a	of ter		
ices (PFAS	3) in micrograms	s per kilograr	m 88	3.7(1.0)			
Boring ID		EH-	1		NYSDEC Gui	dance Values	]
Date	•	5/1/20	)18	20.22	Unrestricted	Protection of	
rade (feet)	0-1	Duplicate	32-33	52-35 Duplicate	Use	Groundwater	
d (PEHvS)	(PFAS) In micro	ograms per Ki	logram				
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d (PFOS) HpA) ample ID de (feet) pple Date bubstance A) (PFHxS) A) (PFHxS) A) (PFOS) Values ection of andvater .7(1.0)	0-0.5 (PFAS) in mic (0.20 U (0.20 U (0.20 U 0.21 J 15.3 NOTES ALL DETE EXCL BOLL PRO BOLL PRO	0.17 U 15 0.25 J EH-1 1-2 9/22/2 9/22/2 9/22/2 9/22/2 9/22/2 0.29 J 0.20 U 0.20 U	0.20 J 0.19 J 0.22 U 1 8 - 10 2021 * kilogram <0.20 U <0.20 U U U U U U U U U U U U U U U U U U U	0.37 J 0.35 J 0.25 J 20-30 20-30 20-30 0.84 (0.20 U 0.84 (0.20 U 0.55 J SCOS.	0.88 - WYSDEC Gui Unrestricted Use - - 0.88 REPORTED TES ARE EXCEED EXCEED ES EXCEED ES EXCEED ES EXCEED ER SCO. DXED VALU	- 3.7 (1.0) - dance Values Protection of Groundwater - - - 3.7 (1.0) REPORTED NYSDEC D NYSDEC D NYSDEC JES EXCEEL ROUNDWATE 100'	IF D R SCO.
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d (PFOS) HpA) ample ID de (feet) pple Date bubstance A) (PFHxS) A) (PFOS) Values ection of andwater .7(10) slues on of water (0)	0 - 0.5 (0 - 0.5 (0 - 0.5) (0 - 0.2) (0 - 0.5) (0	0.17 U 15 0.25 J EH- 1-2 9/22/2 9/22/2 9/22/2 9/22/2 9/22/2 0.29 J 0.20 U 0.20 U	0.20 J 0.19 J 0.22 U 1 8 - 10 2021 (kilogram (0.20 U (0.20 U) (0.20 U (0.20 U) (0.20 U (0.20 U) (0.20	0.37 J 0.36 J 0.25 J 20-30 20-	0.88 	- 3.7 (1.0) - dance Values Protection of Groundwater - - - 3.7 (1.0) REPORTED NYSDEC D NYSDEC D NYSDEC DES EXCEEI ROUNDWATE 100' - Y & SOIL T SITE K	IF D CR SCO.