MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

INTEROFFICE COMMUNICATION

TO: Christiaan Bon, Project Manager, Gaylord District Office
Remediation and Redevelopment Division

FROM: Blaze Budd, Geologist, Hydrogeologic Unit, Geological Services Section
Remediation and Redevelopment Division Blaze Budd (KZ)

DATE: April 11, 2022

SUBJECT: Pellston Regional Airport, Emmet County, Site ID #24000139
GSS Job #1198
Vertical Aquifer Sampling-September/October 2021

This memorandum is for work requested by the Department of Environment, Great Lakes, and Energy (EGLE), Remediation and Redevelopment Division's (RRD's), Gaylord District Office for the subject site located in the village of Pellston, Emmet County, Michigan (Fig 1). RRD's Geological Services Section (GSS) was requested to conduct Vertical Aquifer Sampling (VAS), also known as Vertical Aquifer Profiling. However, the work performed by GSS will be referred to as VAS within this memo. The objective of the investigation was to provide a laterally and vertically expansive data set to aid in future remedial investigations. Staff conducted the VAS investigation from September 27 through October 7, 2021. GSS received the final Eurofins TestAmerica Laboratory results on October 20, 2021.

The village is within the fluvial plains and the confluence of the west and east branches of the Maple River. The geology of the area is one of fluvial and glacial outwash. This paleo-environment typically leads to multiple abandoned channels and areas of higher hydraulic conductivity and preferential pathways. The current confluence is located approximately 2 miles south of the village, along Woodlawn Road, that flows southwardly to Burt Lake. Directly north, adjacent to the village of Pellston, lies the Pellston International Airport. Within the boundaries of the airport, training with Aqueous Film Forming Foams (AFFF) took place as early as the 1970's. AFFF is a known source of per- and polyfluoroalkyl substances (PFAS) contamination. RRD became aware of the usage of AFFF when private well owners submitted results provided by testing through the FreshWater Future Organization. RRD rapidly mobilized sampling private residential wells and continued to expand the sampling boundaries based upon analytical results. The village is not serviced by a municipal drinking water system as most residents are drawing water from shallow, private household wells. The responsible party's investigative work at the time was limited to within the airport boundaries.

This memorandum includes the following:

- Site Location Map (Fig 1)
- VAS Location Map (Fig 2)
- PFAS Results Map (Fig 3)
- Groundwater Contours (Fig 4)
- Global Positioning System (GPS) Data (Table 1)
- PFAS Analytical Summary (Table 2)
- Groundwater Sampling Data Sheets (Appendix A)

VERTICAL AQUIFER SAMPLING (VAS)

Two field crews conducted the VAS at the subject site to ensure the on-site work was finished in a reasonable amount of time. GSS personnel used either a track-mounted Geoprobe® 7822 drill rig or a Geoprobe® 7800 series truck-mounted direct push drill rig. Both rigs employed the Geoprobe® screen point, SP15 groundwater samplers. The SP15 is a small diameter screen, protected by a sheath during advancement. The stainless-steel screen is a standard slot size of 0.004 inches (10 millimeters). The screen points were advanced with 1.5-inch rods using a direct-push method to a target depth of 100 feet (ft.) below ground surface (bgs). Once at the desired depth, the rods were retracted approximately 4 ft., allowing the protective sheath to expose the well screen to the formation. These temporary monitor wells (TMWs) were allowed to equilibrate for some time before a total depth and water level measurement were recorded. GSS staff mapped the TMW locations using GPS (Table 1).

Groundwater samples were collected at 15 locations (TMW-1 through TMW-15) following the Michigan PFAS Action Response Team (MPART) "Groundwater PFAS Sampling Guidance" (Fig 2). Five intervals were sampled at each VAS location, beginning at approximately 100 ft. bgs and working upwards 20 ft. with an upper sample lying between 20 ft. to 16 ft. bgs. The labeling nomenclature of TMW-#-#, stands for temporary monitor well, the location number, followed by the depth bgs interval. Each interval was purged at least three volumes of water from within the screen of the SP15 tooling to ensure the sample was representative of the desired depth. Field crews used peristaltic pumps with low-flow sampling techniques and used new high-density polyethylene (HDPE) tubing at every depth and location. Field indicator parameters were measured and monitored prior to sampling for stabilization using a YSI Pro Plus with a flow through cell (Appendix A). A total of 9 quality control and quality assurance samples (QA/QC) were collected. Replicates DUP-1 through DUP-6 were collected from TMW-1-80', TMW-9-40', TMW-7-80', TMW-13-40', TMW-6-20', and TMW-5-60' respectively. Five samples that included field and equipment blanks were collected. Equip Blank 1, Equip Blank 2-10/6/2021, Equip Blank 2-10/7/2021, Field Blank 1, and Field Blank 2, represent the following: Water passed through an in-field decontaminated SP-15 screen; water used in the decontamination process sampled from the holding tank; and PFAS-free water collected through HDPE tubing and 2 field blanks respectively.

Groundwater and QA/QC samples were submitted under chain-of-custody documentation to Eurofins TestAmerica Laboratory for analysis of PFAS using the Isotope Dilution Method (Environmental Protection Agency Method 537 for aqueous samples). The laboratory results are included in Content Manager (Eurofins TestAmerica Laboratory/ 10/4-10/7/21 Water Sampling Results – 240-157749-1, Eurofins TestAmerica Laboratory/ 9/29-30/21 & 10/30/21 Water Sampling Results – 240-157752-1, Eurofins TestAmerica Laboratory/ 10/4-5/21 Water Sampling Results – 240-157756-1, and Eurofins TestAmerica Laboratory/ 9/27-29/21 Water Sampling Results – 240-157759-1).

SAMPLING RESULTS

Of the 75 samples collected, not including duplicates and blanks, from the locations and multiple depths across the village, there were 8 non-detects, 39 detects, and 28 exceedances of the 7 PFAS analytes that have promulgated maximum contamination levels (MCL). Every VAS location resulted in detections at some depth and at some concentration (Fig 3 and Table 2). Location TMW-10 is of interest due to the fact it is on the western side of the West Branch Maple River. The only detect at TMW-10 was from the 20 ft. bgs interval.

However, all analytes detected were labeled with a "J" qualifier. A "J" qualifier is flag that is placed on a result that is less than the reporting limit but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value. Results of the field and equipment blanks were non-detect, except for Equip Blank 2 which was from water from the holding tank sampled on October 6, 2021. The analyte detected in Equip Blank 2 was PFBS. However, the result was noted with a "J" qualifier. The concentration detected was 0.22 parts per trillion (ppt) where the MDL of PFBS was 0.20 ppt.

Within Fig 3, locations are color coded depending on the concentrations of the 7 regulated PFAS analytes: PFOS, PFOA, PFBS, PFNA, PFHxS, PFHxA, and HFPO-DA.

Since each VAS location had 5 sampling depths, the symbols display the highest concentration for any of those intervals. Red shows exceedances of the MCLs, yellow for detections, and green for non-detects. Even though 8 samples were non-detects, there are no green colored symbols since every location had at least 1 detect. Depths of exceedances, if any, are labelled next to each VAS location. Also included are the surface elevations for each VAS location to aid in calculating the contamination elevation bgs. The caveat for the surface elevation is the uncertainty of the data. The elevation data was extracted from the 2015 Michigan Statewide Authoritative Imagery & LiDAR (MiSAIL) digital elevation model (DEM) via ESRI ArcMap 10.7. The DEM was created from high accuracy LiDAR point cloud data. However, the age of this data set (approximately 7 years old) gives pause to how much validity to give to the elevation data.

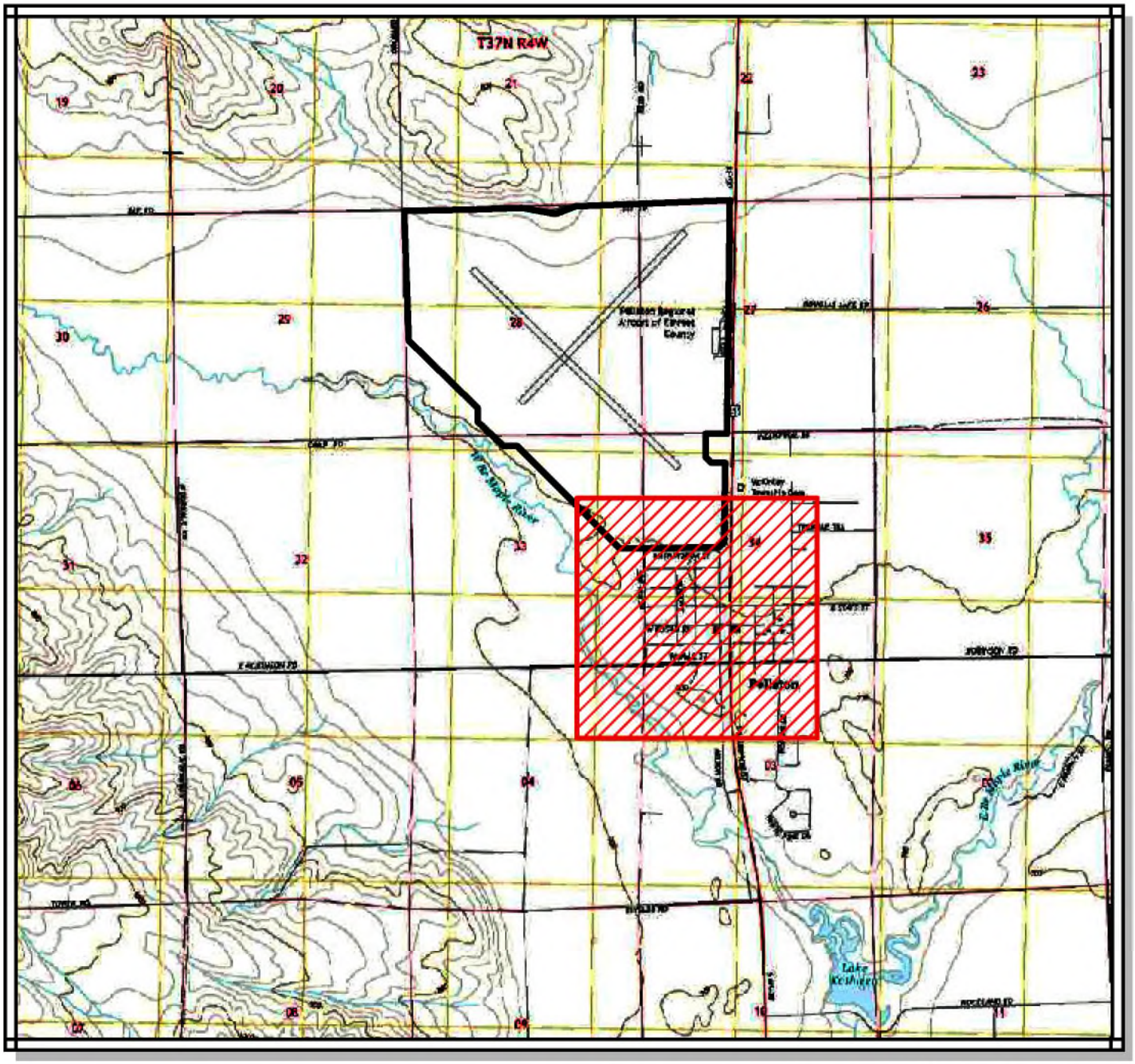
GROUNDWATER ELEVATION

During VAS sampling, GSS measured groundwater levels within the SP15 tooling with an electronic water level meter. These measurements were collected on September 27 through October 7, 2021 (Appendix A). The surface elevation data used to calculate the groundwater elevation was obtained from the same 2015 MiSAIL DEM used for the contaminant depths. The groundwater elevations were used to interpolate the groundwater elevation isocontours using kriging methods. The interpolation was calculated and graphed within Surfer Version 19 (a contouring and gridding software). The contours were exported to ESRI ArcMap 10.7 (Fig 4). VAS locations TMW-10 and TMW-15 were not used for the interpolation. These measurements are from temporary micro-wells, not from established permanent monitor wells. Due this fact, the uncertainty is unknown. Therefore, Fig 4 should be considered as approximate elevations and directions.

Figure 4 demonstrates groundwater following a southernly trend with a slight westward curve closer to the western and southern edge of the VAS scope. This slight curve to the west follows the general assumption that the river has a greater effect of groundwater direction with increasing proximity. The hydraulic gradient ranges from 0.002657ft./ft. (TMW-3 to TMW-4) to 0.003624ft./ft. (TMW-2 to TMW-13).

If you have any questions, contact me at 517-388-8177.

cc/att: Arron Berndt, EGLE
Jeff Pincumbe, EGLE
Scott Densteadt, EGLE



Datum: NAD83
Projection: Michigan GeoRef

Source: 2014 USGS 7.5 minute quadrangle

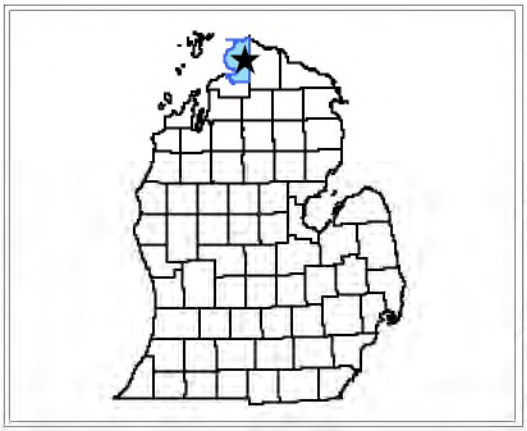
N
W E
S

0 325 650 1,300 Meters

0 1,750 3,500 7,000 Feet

LEGEND

- ★ Pellston
- Site Location
- Emmet County
- Airport



Village of Pellston
Pellston, Emmet County
T37N R04W Sec 34, T37N R04W Sec 33
& T36N R04W Sec 03

SITE LOCATION

GEOLOGIST		CREATION DATE
B.Budd GEOLOGICAL SERVICES SECTION	EGLE	March 2022
Remediation and Redevelopment Division		FIGURE 1

LEGEND

- VAS Location (15)
- Road
- River
- Airport Boundary

DATUM - NAD83
PROJECTION: MICHIGAN GEOREF
NORTHING AND EASTING COORDINATES (IN METERS) ARE IN CORNERS OF MAP

AERIAL PHOTO SOURCE: MICHIGAN IMAGERY SOLUTIONS
AERIAL PHOTO DATE: 2017
AERIAL RESOLUTION: 6" 4-BAND

THE VAS WAS CONDUCTED BETWEEN 9/27/2021 THROUGH 10/07/2021.

0 30 60 120 Meters

0 130 260 520 Feet

1 inch = 500 feet

Pellston Airport
SITE ID 24000139
PELLSTON, EMMET COUNTY
T37N R04W Sec 34, T37N R04W Sec 33, & T36N R04W Sec 03

VAS LOCATIONS

GEOLOGIST		CREATION DATE
B. Budd Geological Services Section	EGLE	March 2022
Remediation and Redevelopment Division		FIGURE 2

LEGEND

Pellston VAS Results

- Exceedance (28)
- Detect (39)
- Non-Detect (8)
- Road
- River
- Airport Boundary

DATUM - NAD83
VERTICAL DATUM - NAD88
PROJECTION: MICHIGAN GEOREF
NORTHING AND EASTING COORDINATES (IN METERS) ARE IN CORNERS OF MAP

AERIAL PHOTO SOURCE: MICHIGAN IMAGERY SOLUTIONS
AERIAL PHOTO DATE: 2017
AERIAL RESOLUTION: 6" 4-BAND

SURFACE ELEVATION DATA WERE EXTRACTED FROM 2015 MISAIL LIDAR DIGITAL ELEVATION MODEL. ELEVATION ACCURACY IS UNGUARANTEED DUE TO AGE OF MISAIL DATA SET & POTENTIAL LAND ALTERATIONS.

SURFACE ELEVATIONS ARE IN FT AMSL. EXCEEDANCE DEPTHS ARE IN FT BGS. LOCATIONS WITH NO EXCEEDANCES ARE FOLLOWED BY "NA".

PART 201 MCLS ARE CURRENTLY ESTABLISHED FOR 7 PFAS ANALYTES: PFOS, PFOA, PFNA, PFBS, HFPO-DA, PFHXS, & PFHXA

0 30 60 120 Meters

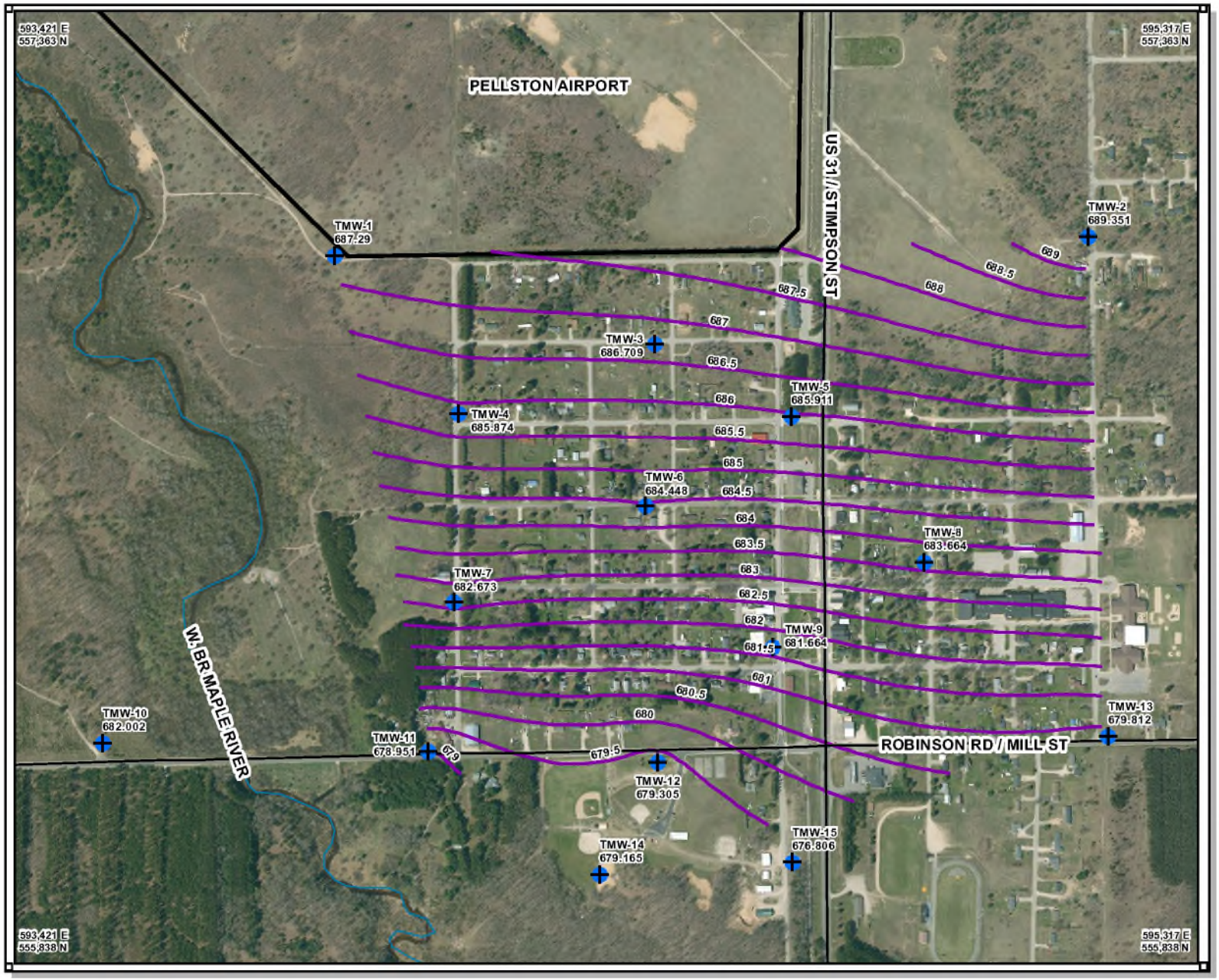
0 130 260 520 Feet

1 inch = 500 feet

Pellston Airport
SITE ID 24000139
PELLSTON, EMMET COUNTY
T37N R04W Sec 34, T37N R04W Sec 33, & T36N R04W Sec 03

PFAS RESULTS

GEOLOGIST		CREATION DATE
B. Budd Geological Services Section	EGLE	March 2022
Remediation and Redevelopment Division		FIGURE 3



LEGEND

- VAS Location (15)
- Groundwater Isocontour
- Major Road
- River
- Airport Boundary

DATUM - NAD83
VERTICAL DATUM - NAD88 (FEET)
PROJECTION: MICHIGAN GEOREF
NORTHING AND EASTING COORDINATES (IN METERS) ARE IN CORNERS OF MAP

AERIAL PHOTO SOURCE: MICHIGAN IMAGERY SOLUTIONS
AERIAL PHOTO DATE: 2017
AERIAL RESOLUTION: 6" 4-BAND

SURFACE ELEVATION DATA USED FOR CONSTRUCTING THE ISOCONTOURS WERE EXTRACTED FROM THE 2015 MISAIL LIDAR DIGITAL ELEVATION MODEL (DEM).

ELEVATION ACCURACY IS UNGUARANTEED DUE TO AGE OF THE MISAIL DATA SET & POTENTIAL ELEVATION ALTERATIONS AT LOCATIONS.

THE DISPLAYED WATER LEVELS WERE MEASURED DURING SAMPLE COLLECTION FROM 9/27/2021 - 10/07/2021. WATER LEVEL MEASUREMENTS WERE TAKEN WITHIN THE SP 15 TOOLING, NOT PERMANENT WELLS. THIS FIGURE IS INTENDED DISCUSSION PURPOSES.

ISOCONTOURS WERE CREATED USING A KRIGING INTERPOLATION METHOD VIA SURFER VER. 19 CONTOURING SOFTWARE.
VAS LOCATIONS TMW-10 & TMW-15 WERE NOT USED FOR THE INTERPOLATION OF ISOCONTOURS.

0 30 60 120 Meters

0 130 260 520 Feet

1 inch = 500 feet

Pellston Airport
SITE ID 24000139
PELLSTON, EMMET COUNTY
T37N R04W Sec 34, T37N R04W Sec 33, & T36N R04W Sec 03

GROUNDWATER ELEVATION ISOCONTOURS

GEOLOGIST		CREATION DATE
B. Budd Geological Services Section	EGLE	March 2021
Remediation and Redevelopment Division		FIGURE 4

Pellston Regional Airport,
Emmet County

Title	Latitude	Longitude	Northing	Easting	GPS Date
TMW-1	45.558190834	-84.794409961	556971.259	593932.227	10/7/2021
TMW-2	45.558303522	-84.778948833	557001.970	595138.727	10/7/2021
TMW-3	45.556842830	-84.787854231	556829.183	594446.135	10/7/2021
TMW-4	45.555883821	-84.791907088	556717.882	594131.415	10/7/2021
TMW-5	45.555781970	-84.785079923	556714.587	594664.445	10/7/2021
TMW-6	45.554511272	-84.788101514	556569.859	594430.736	10/7/2021
TMW-7	45.553168114	-84.792073535	556415.975	594122.952	10/7/2021
TMW-8	45.553645081	-84.782397613	556480.346	594877.391	10/7/2021
TMW-9	45.552460770	-84.785531024	556345.075	594634.804	10/7/2021
TMW-10	45.551223143	-84.799312594	556191.437	593561.141	9/29/2021
TMW-11	45.551018515	-84.792644852	556176.489	594081.941	10/7/2021

Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-1-20	TMW-1-40	TMW-1-60	TMW-1-80	TMW-1-100
Sample Date							9/30/2021	9/30/2021	9/30/2021	9/30/2021	9/30/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420			**0.51**	**4.50**	**2.80**	**0.48**
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L							
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L				**0.29**			
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L					**0.23**		
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51			**4.8**	**4.4**	**0.55**	**0.9**
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000			**0.83**			
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6						
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12		24			
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000					
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L				**0.52**	**2.9**	**1.2**	
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L							
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51			**5.8**	**6.1**	**0.55**	**0.9**
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000					
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12		34			

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-2-20	TMW-2-40	TMW-2-60	TMW-2-80	TMW-2-100
Sample Date							10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/7/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		**0.37**	**0.18**			
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L							
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L						**0.44**	**0.69**
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L							
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L							**0.23**
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51						
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000						**0.85**
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6						
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12					
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000					
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L							
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L							**0.51**
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluorounaecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51						
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000					
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12					

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-3-20	TMW-3-40	TMW-3-60	TMW-3-77	TMW-3-98
Sample Date							10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/6/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L					0.62		
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		3.50	13	26	0.50	0.56
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L			6.1	4.5	13		
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L				1.4	6.2		0.47
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			4.1	4.9	20	0.3	0.75
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		5.2	210	29	2.9	4.9
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		4.1	10			1.1
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L					1.1		
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6				4.8		
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L					120	3.6	
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	8.1	75	31	39	34
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	10	7.1	36	0.81	1.4
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			0.86	24	29	0.36	0.37
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			5.2	6.5			0.79
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L					35		
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		6.3	260	190	3.5	5.7
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	10	8.6	320	0.81	1.4
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	9.3	110	380	46	50

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-4-20	TMW-4-40	TMW-4-60	TMW-4-80	TMW-4-100
Sample Date							10/5/2021	10/5/2021	10/5/2021	10/4/2021	10/4/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							17
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		2.1	13	100	27	7.8
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L						3.4	2.8
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L				1.5	11	4.8	0.65
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			0.36	2.6	10	3.2	3.3
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		2.1	74	350	100	28
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		1.3	6.9	50	11	7.4
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6						
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	1.7	21	320	79	16
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000		4.6	18	6.1	2.9
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			0.7	12	110	29	7.7
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			0.64	3.8	19	4.4	7
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		2.1	88	430	120	34
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000		4.6	18	7.2	2.9
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	2.5	43	470	150	24

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Yellow indicates contaminant exceeds DWC.
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Blank = Analyte was not detected.

Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
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Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-5-20	TMW-5-40	TMW-5-60	TMW-5-80	TMW-5-100
Sample Date							10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/7/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		**0.87**	**0.26**	**0.95**	**0.54**	**0.56**
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L							
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L							
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51				**1.2**	**1**	**0.9**
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000						
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6						
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12					
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000					
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L							
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L							
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51				**1.2**	**1**	**0.9**
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000					
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12			**0.98**	**0.58**	

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Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-6-20	TMW-6-40	TMW-6-60	TMW-6-80	TMW-6-98
Sample Date							10/7/2021	10/7/2021	10/7/2021	10/7/2021	10/6/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		2	26	20	11	1.8
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L				4.8	4.6	11	
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L				4.6	5.4	3.5	0.22
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			1.2	5	5.6	17	0.65
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		4.7	110	130	110	6.4
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		1.8	12	12	29	3
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6					0.77	
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L						3.8	
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	1.4	13	16	65	3.5
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.7	10	12	30	1.8
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			1.1	23	23	13	1.3
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			1.3	7.2	6.6	19	1.6
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		5.9	140	160	130	8.2
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.7	12	13	34	1.8
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	2.4	35	37	110	5.8

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Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-7-20	TMW-7-40	TMW-7-60	TMW-7-80	TMW-7-100
Sample Date							10/5/2021	10/5/2021	10/5/2021	10/5/2021	10/5/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L					2.3	2	1.1
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		0.28	3.7	20	18	19
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L					3.8	4	4.1
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L				0.62	2.9	3.2	2.1
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L				0.88	4.4	5.2	3.8
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51			17	99	84	69
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000			2.1	11	11	11
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6				0.66	0.61	0.69
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12		8.8	39	27	39
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000		1.8	6.7	7.6	6.5
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L				4	25	24	21
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			0.52	1.4	5.2	5	6.4
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51			20	120	100	84
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000		1.8	7.6	8.5	6.5
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12		15	86	57	67

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Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-8-20	TMW-8-40	TMW-8-60	TMW-8-80	TMW-8-100
Sample Date							10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/5/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		3.6				
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L			5.4				
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L							
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			1				
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		1.5				
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		0.97		0.88	2.2	2
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6						
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12					
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	1.2				
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			0.32				
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			0.74			1	0.69
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		1.5				
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.3				
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	0.69				

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC and GSIC.
Blank = Analyte was not detected.

Eurofins TestAmerica Analytical Testing Report
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Report Date: 9/9/2020
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Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-9-20	TMW-9-40	TMW-9-60	TMW-9-80	TMW-9-100
Sample Date							10/5/2021	10/5/2021	10/5/2021	10/5/2021	10/5/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		2.4	1.6	0.79	0.27	0.27
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L			2.4	2.4		3.4	3
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L			0.78			0.4	0.34
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L							
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			0.93	0.44	0.36	0.45	0.51
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		7.3		0.78	1.3	1.2
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		3.6	3.5	4.6	11	12
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6		0.75				
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	4.5				
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.4	1.7	1.2		0.85
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L							
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			2.3	2	2.6	4.5	5.2
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		8		0.78	1.3	1.2
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.4	1.7	1.2		0.85
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	5.3				0.81

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-10-20	TMW-10-40	TMW-10-60	TMW-10-78	TMW-10-103
Sample Date							9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420						
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L							
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L							
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			**0.53**				
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51						
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		**0.72**				
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6						
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	**0.54**				
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	**0.87**				
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L							
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			**1.2**				
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51						
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	**0.87**				
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	**0.54**				

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Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-11-20	TMW-11-40	TMW-11-60	TMW-11-80	TMW-11-100
Sample Date							9/30/2021	9/30/2021	9/30/2021	9/30/2021	9/30/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L					4.5		
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		4.8	8.5	25		0.22
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L			7	2.4	4.5		
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L				2.8	2.6		
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			1.9	2.8	5.1		0.24
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		2.8	91	72	0.63	0.72
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		2.6	6.4	13	0.83	1.1
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6		0.74		0.73		
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	9.2	17	30		
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	4.5	4.4	8.7		
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			0.33	11	21		
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			3.1	3.6	6.3	0.45	1.1
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		2.8	110	89	0.63	0.72
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	5.3	4.4	9.7		
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	12	35	50		

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Yellow indicates contaminant exceeds DWC.
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Green indicates contaminant exceeds both DWC ana GSIC.
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Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-12-20	TMW-12-40	TMW-12-60	TMW-12-80	TMW-12-100
Sample Date							9/28/2021	9/28/2021	9/28/2021	9/28/2021	9/28/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		2.2	23	21	0.22	
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L				3.9	4.3		
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L				1.9	3.4		
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			0.76	3.5	3.6		
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		2.6	79	96	1.2	
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		9.1	13	13		
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6		0.41		0.41		
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	7.3	18	33	4.5	
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.8	6.5	8.9	0.81	
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			0.43	32	27		
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			15	8.8	8		
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		2.6	98	120	1.2	
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.8	7.5	10	0.81	
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	8.2	32	57	5.8	

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-13-20	TMW-13-40	TMW-13-60	TMW-13-80	TMW-13-100
Sample Date							10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/6/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		0.54	2.4	3.7		
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L			2.6	14	38		
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L				0.53			
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L				0.29	0.27		
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			2	9.3	34	0.4	0.67
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51			1.3	1.9		
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		6	75	270	3.4	5.3
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6		1.1	23	50	0.58	1.2
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	3.6	21			
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	5	9	36	0.85	1
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L				0.31	0.26		
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			5.6	74	230	2.9	3.7
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51			1.3	1.9		
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	5	9	37	0.85	1
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	5	24	0.77		

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Green indicates contaminant exceeds both DWC ana GSIC.
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Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-14-20	TMW-14-40	TMW-14-60	TMW-14-80	TMW-14-95
Sample Date							9/28/2021	9/28/2021	9/28/2021	9/27/2021	9/27/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L						2.9	6.7
8:2 FTS	EPA Method 537	0.41	1.80	ng/L						1.5	
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		25	70	63	27	2.9
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L			9	6.1	17	9.2	
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L			0.21	3.8	6.9	3.9	0.47
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			1.9	6.4	26	11	2.3
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		27	110	260	79	12
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		4.1	16	57	23	4.1
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6				0.46	0.43	
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	1.4	35	76	120	14
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.8	12	40	14	2.8
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			27	38	45	19	2.6
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			4.8	13	46	18	3.4
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		39	140	310	94	14
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	2.8	13	43	16	2.8
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	3	55	150	200	28

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Blank = Analyte was not detected.

Eurofins TestAmerica Analytical Testing Report
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Report Date: 9/9/2020
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Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	TMW-15-20	TMW-15-40	TMW-15-60	TMW-15-80	TMW-15-100
Sample Date							10/5/2021	10/5/2021	10/4/2021	10/4/2021	10/4/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		**0.88**	**1.7**	**0.54**	**0.22**	**0.5**
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L			**4.9**	**3.5**			**2.2**
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L			**0.84**				**1**
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							**0.5**
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L							
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L				**1.4**			**0.82**
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51			**0.6**	**2.1**	**0.59**	
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000			**3**	**0.51**	**0.58**	**4**
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6						
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	**0.83**				
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	**0.97**	**2.1**			**2.1**
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L							
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L				**6.2**	**0.52**	**0.48**	**3.8**
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51			**0.6**	**2.1**	**0.59**	
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	**0.97**	**2.1**			**2.1**
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	**0.83**	**0.61**			

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	DUP 1 (TMW-1-80)	DUP 2 (TMW-9-40)	DUP 3 (TMW-7-80)	DUP 4 (TMW-13-40)
Sample Date							9/30/2021	10/5/2021	10/5/2021	10/6/2021
Analyte	Method	MDL	RL	Units						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L						
4:2 FTS	EPA Method 537	0.21	1.80	ng/L						
6:2 FTS	EPA Method 537	2.20	4.40	ng/L						
8:2 FTS	EPA Method 537	0.41	1.80	ng/L					1.9	
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370					
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L						
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L						
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		3	1.4	17	2.4
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L				2.4	3.7	14
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L						
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L						0.54
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L						
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L					2.7	0.3
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L				0.44	4.3	9.3
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		0.54		78	1.4
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000			3.6	10	73
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L						
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6				0.57	23
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L						
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12			26	22
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000		1.7	6.9	8.5
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			1.2		21	0.36
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L				2.4	4.5	71
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L						
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L						
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L						
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L						
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L						
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		0.54		96	1.4
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000		1.7	6.9	8.5
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12			54	25

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	DUP 5 (TMW-6-20)	DUP 6 (TMW-5-60)	EQUIP BLANK 1	EQUIP BLANK 2	EQUIPMENT BLANK 2
Sample Date							10/7/2021	10/7/2021	9/29/2021	10/6/2021	10/7/2021
Analyte	Method	MDL	RL	Units							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L							
4:2 FTS	EPA Method 537	0.21	1.80	ng/L							
6:2 FTS	EPA Method 537	2.20	4.40	ng/L							
8:2 FTS	EPA Method 537	0.41	1.80	ng/L							
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L							
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		2.9	0.82		0.22	
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L							
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L							
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L							
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L							
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L			0.24				
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			1.7				
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		6.1	1.1			
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		2.1				
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L							
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6						
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L							
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	1.8				
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	3.5				
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			1.3				
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			1.7				
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L							
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L							
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L							
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L							
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L							
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		7.7	1.1			
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	3.5				
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	3.2	1			

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

Eurofins TestAmerica Analytical Testing Report
Work Order:
Report Date: 9/9/2020
Client: EGLE-RRD-GAYLORD
Attention: Christiaan Bon
Project Name: PELLSTON AIRPORT

Sample ID					Drinking Water Criteria (DWC)	Groundwater Surface Water Interface Criteria (GSIC)	FIELD BLANK 1
Sample Date							10/6/2021
Analyte	Method	MDL	RL	Units			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA Method 537	0.35	1.80	ng/L			
4:2 FTS	EPA Method 537	0.21	1.80	ng/L			
6:2 FTS	EPA Method 537	2.20	4.40	ng/L			
8:2 FTS	EPA Method 537	0.41	1.80	ng/L			
HFPO-DA (GenX)	EPA Method 537	1.30	3.50	ng/L	370		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA Method 537	1.20	4.40	ng/L			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA Method 537	1.10	4.40	ng/L			
Perfluorobutanesulfonic acid (PFBS)	EPA Method 537	0.18	1.80	ng/L	420		
Perfluorobutanoic acid (PFBA)	EPA Method 537	2.10	4.40	ng/L			
Perfluorodecanesulfonic acid (PFDS)	EPA Method 537	0.28	1.80	ng/L			
Perfluorodecanoic acid (PFDA)	EPA Method 537	0.28	1.80	ng/L			
Perfluorododecanoic acid (PFDoA)	EPA Method 537	0.49	1.80	ng/L			
Perfluoroheptanesulfonic Acid (PFHpS)	EPA Method 537	0.17	1.80	ng/L			
Perfluoroheptanoic acid (PFHpA)	EPA Method 537	0.22	1.80	ng/L			
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537	0.51	1.80	ng/L	51		
Perfluorohexanoic acid (PFHxA)	EPA Method 537	0.51	1.80	ng/L	400,000		
Perfluorononanesulfonic acid (PFNS)	EPA Method 537	0.33	1.80	ng/L			
Perfluorononanoic acid (PFNA)	EPA Method 537	0.24	1.80	ng/L	6		
Perfluorooctanesulfonamide (FOSA)	EPA Method 537	0.87	1.80	ng/L			
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537	0.48	1.80	ng/L	16	12	
Perfluorooctanoic acid (PFOA)	EPA Method 537	0.75	1.80	ng/L	8	12,000	
Perfluoropentanesulfonic acid (PFPeS)	EPA Method 537	0.27	1.80	ng/L			
Perfluoropentanoic acid (PFPeA)	EPA Method 537	0.43	1.80	ng/L			
Perfluorotetradecanoic acid (PFTeA)	EPA Method 537	0.65	1.80	ng/L			
Perfluorotridecanoic acid (PFTriA)	EPA Method 537	1.20	1.80	ng/L			
Perfluoroundecanoic acid (PFUnA)	EPA Method 537	0.98	1.80	ng/L			
Total NEtFOSAA	EPA Method 537	1.20	4.40	ng/L			
Total NMeFOSAA	EPA Method 537	1.10	4.40	ng/L			
Total PFHxS	EPA Method 537	0.51	1.80	ng/L	51		
Total PFOA	EPA Method 537	0.75	1.80	ng/L	8	12,000	
Total PFOS	EPA Method 537	0.48	1.80	ng/L	16	12	

Grey indicates contaminant was detected.
Yellow indicates contaminant exceeds DWC.
Blue indicates contaminant exceeds GSIC.
Green indicates contaminant exceeds both DWC ana GSIC.
Blank = Analyte was not detected.

APPENDIX A

Pellston Regional Airport, Emmet County
Site ID #24000139

EGLE Groundwater Sampling Data Sheets

Groundwater Monitoring Well
Sampling Data Sheet

Well No: MW-01-20 DATE 9/30/21

Sampling Personnel: S. Hauer

WELL DATA

Static Measurement: 11.5 Total Depth: 20 Date of Static: 9/30/21

Sampling Method: _____ Type of Pump: Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
18 ~~15:58~~	12.01	.171	23.5/2.5	8.64		540		11.5
19 ~~16:00~~	12.1	.165	25.3/2.93	8.60		540		11.5
19 ~~16:02~~	12.1	.157	29.4/3.18	8.58		540		11.5
19 ~~16:04~~	12.2	.157	30.2/3.32	8.58		540		11.5
19 ~~16:06~~	12.1	.152	32.5/3.60	8.57		540		11.5
19 ~~16:08~~	12.2	.152	32.8/3.63	8.56		540		11.5
19 ~~16:10~~	Sampled							
SH 10/1/21								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-01-40 DATE 9/30/21

Sampling Personnel: S. Hayes

WELL DATA

Static Measurement: 12.5 Total Depth: 36 Date of Static: 9/30/21

Sampling Method: _____ Type of Pump: Peri

	HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
18	~~1F~~:30	11	.244	27.5/1.60	8.44		480		12.5
18	~~1F~~:34	10.8	.241	29.5/1.28	8.42		480		12.5
18	~~1F~~:36	10.8	.233	31.7/1.52	8.39		480		12.5
18	~~1F~~:38	10.7	.230	33.0/1.70	8.36		480		12.5
18	~~1F~~:40	10.6	.226	33.5/1.95	8.35		480		12.5
18	~~1F~~:45	Sampled							
SH	10/1/21								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-01-60 DATE 9/30/21

Sampling Personnel: S. Haus

WELL DATA

Static Measurement: 14.9 Total Depth: 60 Date of Static: 9/30/21

Sampling Method: _____ Type of Pump: Rec.

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
16:58	11.0	.394	0.0/0.00	8.35		510		14.9
17:00	11.0	.342	-.7/—	8.26		510		14.9
17:02	10.9	.341	-1.0/—	8.17		510		14.9
17:04	10.9	.340	-1.1/—	8.11		510		14.9
17:06	11.0	.339	-1.2/—	8.07		510		14.9
17:10 Sampled								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-01-90 **DATE** 9/30/21

Sampling Personnel: S. Hoen

WELL DATA

Static Measurement: 17.7 **Total Depth:** 90 **Date of Static:** 9/30/21

Sampling Method: — **Type of Pump:** ~~Peri Pump~~ SH 9/30/21

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
16:21	11.3	.338	.1/.01	7.74		468		17.7
16:23	11.7	.335	.5/—	7.61		468		17.7
16:25	11.7	.334	.8/—	7.61		468		17.7
16:27	11.7	.332	.9/—	7.60		468		17.7
16:29	11.6	.333	1.0/—	7.63		468		17.7
16:31	11.5	.332	1.1/—	7.61		468		17.7
Sampled								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-2-20' **DATE** 10/7/21

Sampling Personnel: D.SLY

WELL DATA

Static Measurement: 11.80' **Total Depth:** 20' **Date of Static:** 10/7/21

Sampling Method: TMW-FLOW **Type of Pump:** Rev.

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1225	12.6	0.270	12.6	8.60		>250	0.50	
1230	12.6	0.252	37.2	8.12		>250	1.0	
1235	12.7	0.270	41.0	8.10			1.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample time: 1245

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-2-40' **DATE** 10/7/21

Sampling Personnel: O. Sly

WELL DATA

Static Measurement: — **Total Depth:** 40' **Date of Static:** 10/7/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1140	10.7	0.220	38.9	8.30		>250	0.5	
1145	10.5	0.202	57.7	8.31		>250	1.0	
1150	10.8	0.201	60.3	8.35		>250	2.0	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop on screens

Sample time: 1200

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-2-60' **DATE** 10/7/21

Sampling Personnel: O. Sly

WELL DATA

Static Measurement: 11.60' **Total Depth:** 60' **Date of Static:** 10/7/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1100	10.3	0.358	5.9	8.29		7250	0.5	
1105	10.3	0.343	0.8	8.02		1		
1110	10.3	0.341	-0.1	7.98				
1115	10.2	0.340	-0.1	7.94			2.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample time: 1130

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-2-80' **DATE** 10/7/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: — **Total Depth:** 80' **Date of Static:** 10/7/21

Sampling Method: LOW-FLOW **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1020	10.2	0.388	-0.2	8.12		>250	0.5	
1025	10.2	0.388	-0.3	7.93			1.0	
1030	10.1	0.386	-0.4	7.89			1.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop cut sudan

sample time: 10:40

Relton Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-2-100 **DATE** 10/7/21

Sampling Personnel: O.SLY

WELL DATA

Static Measurement: — **Total Depth:** 100 **Date of Static:** 10/7/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
940	9.9	0.365	2.2	7.99		>250	1.5	
945	9.9	0.361	0.7	7.95			2.0	
950	9.9	0.364	0.4	7.95			2.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ slight siren

Sample time: 1000

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW 3-20 **DATE** 10-6-21

Sampling Personnel: B. Bond

WELL DATA

Static Measurement: 12.8' **Total Depth:** 20 **Date of Static:** 10-6-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1310	Begun	Purge				240		12.8
1320	14.0	0.227	38.7	8.66		240		
1325	14.1	0.223	42.2	8.68				
1330	14.2	0.221	43.2	8.68				
1335	14.3	0.217	43.4	8.69				
1335	Sampled	TMW-3-20						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-3-60 **DATE** 10-6-21

Sampling Personnel: B Buck

WELL DATA

Static Measurement: 15.6 **Total Depth:** 60' **Date of Static:** 10-6-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
11:40	Began	Purge				300		15.6
1148	12.3	0.421	17.0	8.06		360		
1150	12.2	0.471	2.4	8.05		300		
1155	12.3	0.413	0.4	8.01		360		
1200	12.4	0.410	6.3	8.01		420		
1205	12.5	0.407	-.1	8.00				
1210	12.6	0.406	-.2	7.98				
1210	Sampled	TMW-3-60						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-3-77 **DATE** 10-6-21

Sampling Personnel: B. Bush

WELL DATA

Static Measurement: 20.04 **Total Depth:** 77 **Date of Static:** 10-6-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
11:00	11.9	0.519	4.7	7.96		300		20.04
11:05	11.8	0.525	1.3	7.95		420		
11:10	11.7	0.524	0.1	7.92		420		
11:15	11.6	0.523	-0.1	7.92		420		
11:20	11.9	0.522	-0.1	7.92		420		
11:20	Sampled TMW-3-77							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-3-98 **DATE** 10-6-21

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 29.5 **Total Depth:** 98 **Date of Static:** 10-6-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
9:35	Begin	Purge				300		29.5
9:55	11.7	0.520	1.6	7.92				
10:00	11.7	0.518	0.9	7.94				
10:05	11.6	0.515	0.4	7.94				
10:10	11.6	0.511	0.2	7.92				
10:15	11.6	0.508	-0.3	7.92				
10:20	11.6	0.500	-0.3	7.92				
10:20	Sampled	TMW-3-98						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-4-20 **DATE** 10-5-21

Sampling Personnel: B. Buck

WELL DATA

Static Measurement: 12.15 **Total Depth:** 20 **Date of Static:** 10-5-21

Sampling Method: _____ **Type of Pump:** Pp.

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1009	11.9	0.176	81.6	8.63		600		
1010	12.0	0.175	80.8	8.63				
1012	12.1	0.175	79.9	8.61				
1015	Sampled TMW-4-20							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-4-40' **DATE** 10-5-21

Sampling Personnel: _____

WELL DATA

Static Measurement: 12.15 **Total Depth:** 40' **Date of Static:** 10-5-21

Sampling Method: 3-5 Volumes **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
930	10.3	0.314	40.5	8.22		596		12.15
935	10.5	0.309	37	8.08				
940	10.4	0.308	46	8.05				
940	Sampled TMW-4-40							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-4-60 **DATE** 10-5-21

Sampling Personnel: _____

WELL DATA

Static Measurement: _____ **Total Depth:** _____ **Date of Static:** 10-5-21

Sampling Method: _____ **Type of Pump:** _____

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
8:45						600		12.15
900	10.3	0.301	8.2	8.11		600		
903	10.3	0.301	3.9	7.99				
905	10.3	0.301	2.8	7.97				
910	10.2	0.300	1.8	7.96				
	Sampled	TMW-	4-60					

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-4-80 **DATE** 10-4-21

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 13.8 **Total Depth:** 80' **Date of Static:** 10-4-21

Sampling Method: B. Budd **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1655	10.3	0.340	3.2	7.87		744		13.8
1659	10.3	0.339	1.6	7.86				
1705	10.3	0.339	1.4	7.86				
1705	Sampled TMW-4-80							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-4-100 **DATE** 10-4-21

Sampling Personnel: B. Rudd

WELL DATA

Static Measurement: 30' BGS @ 1505 **Total Depth:** 100' **Date of Static:** 10-4-21

Sampling Method: _____ **Type of Pump:** _____

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1505						540		30'
1555	11.2	0.347	11.4	7.79		540		
1605	11.1	0343	6.0	7.84				
1610	11.2	0.342	6.6	7.86				
1615	11.1	0.340	6.8	7.85				
1615	Sampled TMW-4-100							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Purged 5 Gallons Before Min YSI

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-5-20 **DATE** 10-7-21

Sampling Personnel: B. Burd

WELL DATA

Static Measurement: 12.9' **Total Depth:** 20 **Date of Static:** 10-7-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1635	Purge	Began				420		12.9
1640	12.6	0.533	44.5	7.89				
1645	12.7	0.531	47.5	7.85				
	Sampled TMW-5-20				Vials	State Lab split		

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: ~~TMW-5~~ TMW-5-40 **DATE** 10-7-21

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 12.9 **Total Depth:** 40 **Date of Static:** 10-7-2

Sampling Method: _____ **Type of Pump:** _____

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1600	Purge	Began				540		
1605	11.6	0.438	38.2	8.17				
1610	11.6	0.427	43.2	8.12				
1615	11.6	0.427	52.1	8.08				
	Sampled	TMW-5-40		Vista		State	Lab Split	
		Purged	2 gal.					

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-5-60 **DATE** 10-7-21

Sampling Personnel: _____

WELL DATA

Static Measurement: 12.85 **Total Depth:** 60 **Date of Static:** 10-7-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1520	Purge	Began				420		
1525	11.8	0.86	7.5	8.02				
1530	11.7	0.84	7.1	7.96				
1535	11.7	0.83	0.8	7.93				
1540	11.6	0.83	0.5	7.89				
Sampled	TMW-5-60	; Dup 6,	½ State	Lab Split				

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-S-80 **DATE** 10-7-21

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 13.7 **Total Depth:** 80 **Date of Static:** 10-7-21

Sampling Method: _____ **Type of Pump:** Peri.

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1435	Purge	Began				420		
1440	12.5	0.95	2.2	8.10				
1445	12.4	0.91	0.3	8.13				
1450	Peri Died							
1459	13.1	0.85	0.6	8.04				
1500	12.9	0.88	0.4	7.95				
1505	12.8	0.87	0.4	7.92				
	Sampled TMW-S-80							
		Vista & State Split.						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-5-100 **DATE** 10-7-21

Sampling Personnel: _____

WELL DATA

Static Measurement: 33.6 **Total Depth:** 98 **Date of Static:** 10-7-21

Sampling Method: _____ **Type of Pump:** Grundfos

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1316	Purge Began					240 mL		33.6
1355	Very Silty							
~~1400~~	14.4	0.97	11.6	8.13		240 ml		
1408	14.1	0.96	1.2	8.11				
1405	14.4	0.96	0.0	8.07				
1410	13.9	0.96	-0.3	8.06				
1415	14.1	0.96	-.4	8.04				
	Sampled TMW-5-100 @				State Lab Split.			

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-6-20 **DATE** 10-7-21

Sampling Personnel: BBrill

WELL DATA

Static Measurement: 13.7 **Total Depth:** 20 **Date of Static:** 10-7-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1045	Purge Began					240		13.7
1050	12.8	0.285	26.1	8.18				
1055	12.8	0.283	27.1	8.16				
1100	12.9	0.281	31.8	8.14				
	Sampled	Dup 5	, TMW-6-20	; State Lab		MS	; MD	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-6-40 **DATE** 10-7-21

Sampling Personnel: _____

WELL DATA

Static Measurement: 13.7 **Total Depth:** 40 **Date of Static:** 10-7-21

Sampling Method: _____ **Type of Pump:** _____

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1000	Purge Began							13.7
1010	10.8	0.205	74	8.33		320		
1015	10.9	0.203	67.0	8.31				
1020	10.9	0.200	74.7	8.30				
1025	Sampled TMW-6-40							
	Purged 2 gallons							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-6-60' **DATE** 10-7-21

Sampling Personnel: B. Smith

WELL DATA

Static Measurement: 13.7 **Total Depth:** 60' **Date of Static:** 10-7-21

Sampling Method: _____ **Type of Pump:** _____

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
9:10	began	Purge				300		13.7
9:30	10.6	0.204	69.6	~~7.68~~ BMS 10-7-21				
9:35	10.8	0.209	69.0	~~7.61~~				
9:40	10.8	0.206	69.3	8.34				
9:45	10.8	0.203	70.2	8.34				
Sample		TMW-6-60		For VOCs & State Labs				

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-6-80 **DATE** 10-7-21

Sampling Personnel: B. Buds

WELL DATA

Static Measurement: 13.9 **Total Depth:** 80 **Date of Static:** 10-7-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
8:35	Purge Began					300		13.9
8:45	10.9	0.541	9.1	7.76				
8:50	10.7	0.541	2.3	7.80				
8:55	10.7	0.541	1.3	7.84				
9:00	10.7	0.541	1.1	7.86				
Sampled	@ 9:00	TMW-6-80						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-7-20 **DATE** 10-5-21

Sampling Personnel: _____

WELL DATA

Static Measurement: 15.65 **Total Depth:** 20' **Date of Static:** 10-5-21

Sampling Method: Purge 3-5 Volume **Type of Pump:** Per. Pump

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1620	13.1	0.493	89.1	7.70		960		
1625	13.2	0.488	94.0	7.63				
1630	13.2	0.484	98.	7.62				
1630 Sampled		TMW-7-20						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-7-40 **DATE** 10-5-21

Sampling Personnel: _____

WELL DATA

Static Measurement: 15.65 **Total Depth:** 40' **Date of Static:** 10-5-21

Sampling Method: _____ **Type of Pump:** Pur

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1545	Purge Begun					720		
1548	10.8	0.247	56.2	8.42				
1550	10.7	0.244	52.8	8.30				
1555	10.7	0.243	58.1	8.21				
1600	10.7	0.243	60.8	8.18				
Sampled TMW-7-40 @ 1600								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-7-60 **DATE** 10-5-21

Sampling Personnel: B. Buell

WELL DATA

Static Measurement: 15.7 **Total Depth:** 60' **Date of Static:** 10-5-21

Sampling Method: Purge 3-5 Vol **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1520	10.8	0.318	3.4	8.04		720		
1525	10.7	0.315	0.9	8.01				
1530	10.9	0.314	1.1	7.98				
1530	Sampled	TMW-7-60						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-7-80 **DATE** 10-5-21

Sampling Personnel: B. Brodie

WELL DATA

Static Measurement: 16.2 **Total Depth:** 80 **Date of Static:** 10-5-21

Sampling Method: Purge **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1435	10.9	0.339	6.3	8.14		720		16.2
1440	10.8	0.338	3.8	8.10				
1445	10.8	0.337	1.6	8.05				
1450	10.7	0.337	0.8	8.03				
1455	10.7	0.338	0.5	8.02				
Sample TMW-7-80 @ 1455								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-7-100' **DATE** 10-5-21

Sampling Personnel: B. Bell

WELL DATA

Static Measurement: 28.3' BGS **Total Depth:** 100' **Date of Static:** 10-5-21

Sampling Method: 3-5 well volumes **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1215	13.7	0.296	7.8	8.45		360		28.3
1220	13.4	0.300	~~8.37~~ 7.4	8.39				
1225	13.3	0.295	1.9	8.40				
1230	13.1	0.294	1.2	8.40				
1235	13.1	0.297	1.7	8.42				
1240	13.1	0.297	1.2	8.43				

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-8-20' **DATE** 10/6/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: 13.50' **Total Depth:** 20' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1020	11.7	0.417	7.8	8.48		>250	0.25	
1025	11.8	0.420	19.7	8.19		↓	0.75	
1030	11.9	0.421	31.1	7.97		↓	1.0	
							2.0	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well wl drop at screen

sample time: 1040

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-8-40' **DATE** 10/6/21

Sampling Personnel: O.SL4

WELL DATA

Static Measurement: — **Total Depth:** 40' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
945	10.4	0.287	2.4	8.68		>250	0.25	
950	10.3	0.133	60.3	8.79		1	0.75	
1000	10.3	0.123	63.7	8.79		1	1.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop at screen

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-8 ~60' **DATE** 10/6/21

Sampling Personnel: D. SLY

WELL DATA

Static Measurement: 14.25' **Total Depth:** 60' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
910	10.1	0.324	1.0	8.65		>250	0.5	
920	10.0	0.294	7.0	8.34			1.0	
925	10.0	0.287	21.5	8.21			1.5	
930	10.0	0.284	28.7	8.14			2.0	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

sample time: 935

Rellston Airport [redacted]

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-X-80' **DATE** 10/6/21

Sampling Personnel: O.SLY

WELL DATA

Static Measurement: 15.12' **Total Depth:** 80' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** per.

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
835	9.9	0.333	1.1	8.36		>250	0.25	
840	9.9	0.324	0.4	8.14		1	0.50	
845	9.8	0.329	0.1	8.13		1	0.75	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

sample time: 855

Pellston Airport [redacted]

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-8-100' **DATE** 10/5/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: 21.09' **Total Depth:** 100' **Date of Static:** 10/5/21

Sampling Method: low flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1700	13.3	0.426	6.0	8.19			0.25	
1710	12.4	0.421	0.5	7.75			0.50	
1715	12.2	0.421	0.3	7.76			0.75	
1720	12.0	0.418	-0.1	7.76			1.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screens

sample time: 1725

Site: Pellston Airport

Groundwater Monitoring Well Sampling Data Sheet

Well No: TMW-9-20' **DATE** 10/5/21

Sampling Personnel: D. SLY

WELL DATA

Static Measurement: 15.45' **Total Depth:** 20' **Date of Static:** 10/5/21

Sampling Method: TMW - FMW **Type of Pump:** Peri

HH:MM	TEMP C (+/- 3%)	Conductivity mS/cm (+/- 3%)	DO (+/- 10%)	pH (+/- 0.1 unit)	Turbidity Ntu (+/- 10%)	Flow rate ml/min	Gallons pumped	SWL Ft.
1445	14.1	0.66	11.3	7.87		>250	0.25	
1450	14.2	0.64	23.2	7.58			0.50	
1455	14.3	0.63	28.8	7.53			3.0	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample Collection Time: 1500

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-9-40' **DATE** 10/5/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: 16.53 **Total Depth:** 40' **Date of Static:** 10/5/21

Sampling Method: low-flow **Type of Pump:** pen

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1305	12.6	0.615	6.5	8.12	~~2~~	230	0.5	
1310	12.6	0.586	29.7	7.85			1.0	
1315	12.5	0.592	36.2	7.80			1.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

SAMPLE TIME: ~~13~~20

SAMPLE PARAMETERS: PFAS

Site: Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-9-60' DATE 10/5/21

Sampling Personnel: D. Sly

WELL DATA

Static Measurement: 17.20' Total Depth: 60' Date of Static: 10/5/21

Sampling Method: low-flow Type of Pump: peri

HH:MM	TEMP C (+/- 3%)	Conductivity mS/cm (+/- 3%)	DO (+/- 10%)	pH (+/- 0.1 unit)	Turbidity Ntu (+/- 10%)	Flow rate ml/min	Gallons pumped	SWL Ft.
1320	12.8	0.67	0.4	8.47			0.5	
1325	12.7	0.20	0.30	8.26			0.75	
1335	12.5	0.527	35	8.08			1.00	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample Collection Time: 1345

Site: Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-9-80' DATE 10/5/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: 18.00' Total Depth: 80' Date of Static: 10/5/21

Sampling Method: low-flow Type of Pump: peri

HH:MM	TEMP C (+/- 3%)	Conductivity mS/cm (+/- 3%)	DO (+/- 10%)	pH (+/- 0.1 unit)	Turbidity Ntu (+/- 10%)	Flow rate ml/min	Gallons pumped	SWL Ft.
1250	13.5	0.87	1.5	8.38		240	0.25	
1255	12.0	0.87	0.1	8.23		1	0.75	
1300	12.9	0.86	-0.2	8.21		1	1.0	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample Collection Time: ~~1305~~ 1305

Site: Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-9-100' DATE 10/5/21

Sampling Personnel: C. SLY

WELL DATA

Static Measurement: 24.58 Total Depth: 100' Date of Static: 10/5/21

Sampling Method: low-flow Type of Pump: peri

HH:MM	TEMP C (+/- 3%)	Conductivity mS/cm (+/- 3%)	DO (+/- 10%)	pH (+/- 0.1 unit)	Turbidity Ntu (+/- 10%)	Flow rate ml/min	Gallons pumped	SWL Ft.
1155	13.6	0.88	1.8	7.92		>150	0.5	
1200	13.4	0.87	0.7	7.84			0.75	
1205	13.3	0.88	0.5	7.86			1.0	
1210	13.0	0.88	0.2	7.84			1.5	
1215	13.0	0.88	0.1	7.84			2.0	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample Collection Time: 12:20

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-11-20 DATE 9/30/21

Sampling Personnel: Spencer Hoy

WELL DATA

Static Measurement: 14.3 Total Depth: 20 Date of Static: 9/30/21 14.3 IH

Sampling Method: _____ Type of Pump: Pur.

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
11:12	11.8	.414	16.2/1.17	8.05		492		14.3
11:14	11.8	.414	14.3/1.06	7.97		492		14.3
11:16	11.9	.420	16.3/1.75	7.89		492		14.3
11:18	11.9	.424	19.1/2.05	7.90		492		14.3
11:20	11.9	.415	0.46/2.12	7.76		492		14.3
11:20	Sampled							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-11-40 **DATE** 9-30-21

Sampling Personnel: J. Hoover

WELL DATA

Static Measurement: 14.8 **Total Depth:** 40 **Date of Static:** 9-30-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
10:41	10.6	.283	.5/.07	8.75		456		14.8
1046	10.0	.279	1.0/.13	8.14		456		14.8
1050	10.6	.278	1.3/.14	8.09		456		14.8

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-11-60 **DATE** 9-30-21

Sampling Personnel: S. Hoar

WELL DATA

Static Measurement: ~~10.2~~ 15.7 **Total Depth:** 60FT **Date of Static:** 9-30-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
0955	10.4	.334	-.2	8.09		540		15.2
10:10	10.4	.335	-.9	7.94		540		15.7
1015	10.4	.734	-1.2	7.9		540		15.2
sampled								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-11-930 **DATE** 9/30/21

Sampling Personnel: S. Hunt

WELL DATA

Static Measurement: 16.95 **Total Depth:** 80 **Date of Static:** 9/30/21

Sampling Method: _____ **Type of Pump:** Per.

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
0928	10.2	.342	.6	8.15		480		16.85
0931	10.1	.341	-.9	8.05		480		16.85
0936	10.0	.740	-1.1	7.95		480		16.85
0940	Sampled							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-11-100 **DATE** 9-30-21

Sampling Personnel: S. Howe

WELL DATA

Static Measurement: 20.35 **Total Depth:** 100 FT **Date of Static:** 9/30/21

Sampling Method: _____ **Type of Pump:** Pmi

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
0853	9.9	.339	.4	8.04		528		20.35
0857	9.8	.335	.9	7.79		528		20.35
0900	9.8	.337	1.1	7.77		528		20.35
Sampled								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

DO mg/L not reading

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-12-20 **DATE** 9-29-21

Sampling Personnel: _____

WELL DATA

Static Measurement: 15.1 **Total Depth:** 20' **Date of Static:** 9-29-21

Sampling Method: _____ **Type of Pump:** Pump

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1645	13.0	.479	29.5% 2.57 mg/L	7.84		528		15.1
1650	13.1	.476	28.9 3.03	7.73				
1652	13.1	.475	32.9 2.48	7.69				14.7'
1655	Sampled	TMW-12-20						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-12-40 **DATE** 9-29-21

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 15.6 **Total Depth:** 40 **Date of Static:** 9-29-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1616	11.4	0.277	37.4% 4.07	8.51		576		15.6'
1620	11.3	0.266	38.4 4.24	8.45		576		15.6'
1625	11.1	0.255	41.7 4.57	9.36		576		15.6'

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW 12-60 **DATE** 9-29-2021

Sampling Personnel: B. Bridel

WELL DATA

Static Measurement: 17.4' **Total Depth:** 60' **Date of Static:** 9-29-2021

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
15:30	12.0	0.313	7.8	8.40		420		17.4
15:43	11.8	0.290	14.7	8.34		420		
15:48	11.4	0.276	25.0	8.37		420		

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-12-80 **DATE** 9-29-21

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 19.6' **Total Depth:** 80' **Date of Static:** 9-29-21

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1455	12.4	0.81	-1.	8.23		360		19.6'
1500	12.1	0.80	-1.	8.14		360		
1505	12.0	0.78	-1	8.02		360		
Sampled @ 1505								17.9'

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-12-100 **DATE** 9-29-2021

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 21.1 **Total Depth:** 100 **Date of Static:** 9-29-2021

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
14:18	12.6	0.80	-0.3	7.66		396/min		21.1'
14:21	12.4	0.8	-0.4	7.62		396/min		~~2~~
1426	12.2	0.8	-0.6	7.61		396/min		
1430	12.1	0.8	-0.7	7.61		396		
Sampled TMW-12-100 1430					~~WL~~	~~49~~		

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW - 13-20' **DATE** 10/6/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: 16.21 **Total Depth:** 20' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1550	13.6	0323	9.9	8.52		>250	0.5	
1555	13.6	0.289	23.1	8.20		↓	1.0	
1600	13.6	0.279	31.2	8.17		↓	1.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

sample time: ~~1605~~ 1610

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-13-40 **DATE** 10/6/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: 15.98 **Total Depth:** 40' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1520	12.7	0.82	7.9	8.07		>250	0.5	
1525	12.6	0.73	9.9	7.74		1	1.0	
1530	12.6	0.66	13.4	7.57			1.5	
1535	12.5	0650	15.3	7.52				

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

sample time: 1540

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-13-60 **DATE** 10/6/21

Sampling Personnel: O. SM

WELL DATA

Static Measurement: 15.17 **Total Depth:** 60' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** ~~low-flow~~ peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1450	12.7	0.595	-0.5	8.10		>250	0.5	
1455	12.6	0.99	-0.1	7.89			1.0	
1500	12.9	1.05	0.8	7.83			1.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample time: 1510

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-13-80' **DATE** 10/6/21

Sampling Personnel: D. SLY

WELL DATA

Static Measurement: _____ **Total Depth:** 80' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1405	13.4	0.312	0.0	8.23			0.25	
1410	13.0	0.318	-0.6	8.11			0.50	
1415	12.6	0.292	11.1	8.03			1.00	
1425	12.6	0.293	4.6	8.08			1.50	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

sample time: 1430

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-13-100' **DATE** 10/6/21

Sampling Personnel: D. Sly

WELL DATA

Static Measurement: 22.22' **Total Depth:** 100' **Date of Static:** 10/6/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1315	17.5	0.419	0.7	8.30		150	0.25	
1325	17.5	0.376	-0.1	8.33			0.50	
1330	16.7	0.349	-0.2	8.28			1.00	
1335	16.3	0.329	-0.3	8.29			1.50	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop screen

Sample time: 1340

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-14-20' **DATE** 9-29-2024

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 15 **Total Depth:** 20' **Date of Static:** 9-29-2024

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1050	13.6	0.349	30.9	8.18		420/min		15'
1057	13.7	0.329	51.6	8.00		420/min		
1100	13.7	0.327	57.8	7.97		420/min		
*Sampled 1105 TMW-14-20								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW - 14 - 40 **DATE** 9-29-2021

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 17.5 **Total Depth:** 40' **Date of Static:** 9-29-2021

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
10:10 Purge Began						300 mL		17.5'
10:20	16.4	0.278	37.1	8.35		600/mL		
10 25	16.4	0.275	36.5	8.35		600/mL		
1030	17.4	0.269	37.1	8.38		250/m		
1035	Sampled TMW - 14-40							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Slowed down Peri. pump to Sample. Increased Temp due to direct Sun light.

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-14-60' **DATE** 9-28-2021

Sampling Personnel: B. Buff

WELL DATA

Static Measurement: 26.1' **Total Depth:** 60' **Date of Static:** 9-28-2021

Sampling Method: _____ **Type of Pump:** Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
09:30	12.2	0.331	3.5	8.09		360		26.1'
09:40	11.8	0.324	4.7	8.07		360		
09:45	11.5	0.324	5.3	8.07		360		
09:50	11.4	0.323	5.9	8.05		360		
09:55	11.3	0.325	7.5	8.03		360		
09:55	Sampled	TMW-14-60						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

Some Sediments: Silts

Site: Pullman Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-15-20' **DATE** 10/5/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: 14.19' **Total Depth:** 20' **Date of Static:** 10/5/21

Sampling Method: low-flow **Type of Pump:** Fern

HH:MM	TEMP C (+/- 3%)	Conductivity mS/cm (+/- 3%)	DO (+/- 10%)	pH (+/- 0.1 unit)	Turbidity Ntu (+/- 10%)	Flow rate ml/min	Gallons pumped	SWL Ft.
920	13.0	0.502	58.6	7.94		>500	1	
925	13.1	0.492	66.9	7.78				
930	13.2	0.496	69.4	7.74				
935	13.2	0.485	72.0	7.72			2.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample Collection Time: 940

Site: Pellston Airport

Groundwater Monitoring Well Sampling Data Sheet

Well No: TMW-15-40' **DATE** 10/5/21

Sampling Personnel: D SLY

WELL DATA

Static Measurement: 14.12' **Total Depth:** 40' **Date of Static:** 10/5/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C (+/- 3%)	Conductivity mS/cm (+/- 3%)	DO (+/- 10%)	pH (+/- 0.1 unit)	Turbidity Ntu (+/- 10%)	Flow rate ml/min	Gallons pumped	SWL Ft.
845	11.2	1.22	34.7	7.94		>500	1	
850	11.1	1.22	35.4	7.94		1	1.5	
855	11.1	1.22	36.6	7.91		1	2.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample Collection Time: 900

Site: Pensacola Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-15-60'

DATE ~~8~~ 10/4/21

Sampling Personnel: O. SLY

WELL DATA

Static Measurement: 14.98 **Total Depth:** 60' **Date of Static:** 10/4/21

Sampling Method: low-flow **Type of Pump:** geri

HH:MM	TEMP C (+/- 3%)	Conductivity mS/cm (+/- 3%)	DO (+/- 10%)	pH (+/- 0.1 unit)	Turbidity Ntu (+/- 10%)	Flow rate ml/min	Gallons pumped	SWL Ft.
1645	11.3	1.12	7.3	8.02		380	0.5	
1650	11.3	1.11	10.0	7.87		1	1.25	
1655	11.3	1.10	12.5	7.81		1	2.00	
1700	11.3	1.10	13.7	7.79		1	2.50	
1705	11.3	1.10	14.3	7.79		1	3.00	
1710	11.3	1.10	14.4	7.79		1	3.50	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample Collection Time: 1720

Site: Pellston Airport

Groundwater Monitoring Well Sampling Data Sheet

Well No: TMW-15-80' DATE 10/4/21

Sampling Personnel: D. SLY

WELL DATA

Static Measurement: 15.05' Total Depth: 80' Date of Static: 10/4/21

Sampling Method: low flow Type of Pump: peri

HH:MM	TEMP C (+/- 3%)	Conductivity mS/cm (+/- 3%)	DO (+/- 10%)	pH (+/- 0.1 unit)	Turbidity Ntu (+/- 10%)	Flow rate ml/min	Gallons pumped	SWL Ft.
1605	11.9	0.656	3.0	8.25		200	0.5	
1610	12.1	0.665	0.8	8.03			1.0	
1615	12.1	0.651	0.7	8.04			2.0	
1620	12.2	0.645	0.5	8.06			2.25	
1625	12.2	0.648	0.5	8.07			2.5	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

Sample Collection Time: 1630

Pellston Airport

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-15-100' **DATE** 10/4/21

Sampling Personnel: O.SLY

WELL DATA

Static Measurement: 24.32' **Total Depth:** 100' **Date of Static:** 10/4/21

Sampling Method: low-flow **Type of Pump:** peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1450	15.4	0.506	21.6	8.32		110		
1455	14.7	0.566	1.4	8.12				
1500	13.3	0.70	0.3	8.16			1 gal	~~tgt~~
1505	12.3	0.712	0.0	8.00			1.25	
1510	12.1	0.625	0.1	7.92			2.00	
1515	12.0	0.606	-0.2	7.92			2.25	
1525	12.1	0.602	-0.1	7.92			2.50	

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

temp well w/ drop out screen

SAMPLE TIME: 1535

SAMPLE PARAMETERS: PFAS - 2 bottles

Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-10-20 **DATE** 9-29-2021

Sampling Personnel: B. Bold

WELL DATA

Static Measurement: 18.75 **Total Depth:** 20' **Date of Static:** 9-29-2021

Sampling Method: _____ **Type of Pump:** _____

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1430	12.8	.290	36.5	8.14	~~20~~ (Bub)	260		18.75
1435	12.9	.291	39.5	8.09				
1440	Sample	TMW-10-20						

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW - 10 - 40 **DATE** 9-29-2021

Sampling Personnel: B Bull

WELL DATA

Static Measurement: 19.1 **Total Depth:** 41' **Date of Static:** 9-29-2021

Sampling Method: _____ **Type of Pump:** Peri

HH:MM (BMB 9-29-21)	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
14:10	10.1	.228	16.8	8.51		660		
14:15	9.8	.229	21.4	8.02				
Sample	TMW-10-40							

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW-10-60 DATE 9-29-2021

Sampling Personnel: B. Bold

WELL DATA

Static Measurement: 21.5 Total Depth: 60' Date of Static: 9-29-2021

Sampling Method: _____ Type of Pump: Peri pump

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1140	11.3	0.262	-7	8.41		156		21.5
1145	11.3	0.250	-1	8.18		156		
1150	11.2	0.226	-.9	8.26				
Sampled TMW-10-60								

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

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Groundwater Monitoring Well
Sampling Data Sheet

Well No: TMW - 10 ~~100'~~ 78

DATE 9-29-2021

Sampling Personnel: B. Budd

WELL DATA

Static Measurement: 21.7 Total Depth: 100' Date of Static: 9-29-2021

Sampling Method: _____ Type of Pump: Peri

HH:MM	TEMP C	Conductivity mS/cm	DO %	pH	Turbidity ntu	Flow rate ml/min	Gallons pumped	SWL Ft.
1100	13.6	0.291	0	8.18		204		
1105	13.3	0.287	.9	7.99		204		
1110	13.2	0.284	-1.2	8.05				
1110	Sampled TMW-10-78							22.05

COMMENTS (Conditions of well, lock and protective cover. Other observations.)

YSI SN: 13C100824