APTIM

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November 2, 2023

Mr. Robert Cilek, P.G. Professional Geologist Florida Department of Environmental Protection Waste Management/Site Investigation Section 2600 Blair Stone Road, MS 4515 Tallahassee, Florida 32399-2400

Re: Site-Wide Soil and Groundwater Investigation Work Plan Citrus County Fire Training Center 1300 South Lecanto Highway, Lecanto, Florida Task Assignment PA254 ERIC\_7394

Dear Mr. Cilek:

Aptim Environmental and Infrastructure, LLC (APTIM) submits this Site-Wide Soil and Groundwater Investigation Work Plan (Work Plan) for the continued assessment of the Citrus County Fire Training Center located in Lecanto, Citrus County, Florida. The Work Plan identifies the proposed work activities, sample locations, collection intervals and work schedule. The Work Plan also includes a listing of proposed quality assurance/quality control (QA/QC) samples to be collected, which includes equipment, field blanks and duplicate groundwater samples. Assessment activities will involve the collection of surface water, sediment, soil and groundwater samples to further assess the presence of polyfluoroalkyl substances (PFAS). All collected samples are proposed to be submitted to Florida Department of Environmental Protection (FDEP) Laboratories in Tallahassee, Florida for analysis of PFAS compounds by Method DEP SOP: LC-001-3 (currently 36 compound list). The proposed sampling schedule was approved by the laboratory on September 28, 2023, with the modified schedule confirmed on October 20, 2023.

## Soil and Groundwater Investigation Work Plan

A preliminary site visit will be held on November 29, 2023, to conduct a utility survey of the areas proposed for soil borings SB-15 through SB-21. These borings are proposed to be installed by hand in the eastern stormwater retention pond to evaluate if, or how much, surface water is present in the onsite stormwater retention ponds. The utility survey will include the use of Ground Penetrating Radar (GPR) scans of the proposed boring locations for possible underground conflicts. During the site visit, APTIM personnel will also meet with the County Health and Maintenance Departments to determine if any nearby public supply water sources are available to be sampled for the presence of PFAS and discuss the possibility of accessing the Citrus County right-of-way for well installations. APTIM will also inspect the proposed off-site boring locations for potential conflicts and possible workarounds.



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Following the site visit, APTIM will evaluate the need to contact the adjacent property owners to obtain access agreements.

### Surface Water and Sediment Sampling

To evaluate PFAS concentrations in the central stormwater retention pond and the uniformity of concentrations within the eastern stormwater retention pond, APTIM proposes to collect six surface water samples as part of this assessment. Surface water samples **SW-2** through **SW-5** will be collected from the eastern stormwater retention pond. Surface water samples **SW-6** and **SW-7** will be collected from the central stormwater retention pond, if water is present at the time of sampling. Surface water samples will be collected from the top 12 inches of water present at each location in accordance with the FDEP's Surface Water Sampling Standard Operating Procedure (SOP) (DEP-SOP-001/01 FS 2100) and the FDEP PFAS Sampling DEP-SOP-Draft dated October 2019. The proposed sample locations are displayed on **Figure 1** and listed on **Table 1**. Surface water is not typically retained for long durations within the central stormwater retention pond. If water is not present during the initial sampling attempt, the collection of samples **SW-6** and **SW-7** could be delayed until later in this assessment if water is found to be present.

To evaluate sediment concentrations in the central and eastern stormwater retention ponds, APTIM proposes to collect 15 sediment samples. Sediment samples **SED-3** through **SED-14** will be collected from the eastern stormwater retention area, with the samples clustered in groups of three on each bank of the pond to assist in determining the distribution of PFAS contamination at various pond elevations. Sediment samples **SED-15** through **SED-17** will be collected from the central stormwater retention area to determine if PFAS impacts are present. APTIM anticipates collecting all sediment samples at or above the water level present in retention ponds at the time of sampling. The sediment samples will be collected in accordance with the FDEP's Sediment Sampling SOP (DEP-SOP-001/01 FS 4000) and the DEP-SOP-Draft PFAS Sampling (October 2019). The proposed sample locations are displayed on **Figures 2** (Eastern Retention Area) and **3** (Central Retention Area) and listed on **Table 1**.

APTIM proposes to collect the six surface samples and 15 sediment samples on December 4, 2023.

### Hand Auger Soil Sampling

To evaluate PFAS soil impacts in the steeply sloped and fenced eastern stormwater retention area, APTIM proposes to manually install seven soil borings. Soil borings **SB-15** through **SB-21** will be manually advanced using stainless steel hand augers to the depth of saturation, which should occur near the depth of the surface water elevation in the pond, with a maximum anticipated total depth of 15 feet below land surface (ft bls). During the advancement of each boring, soil samples will be collected, as approved by the FDEP Waste Site Cleanup Section (WSCS), from intervals of 0-0.5 ft bls, 0-5.-2 ft bls, and 2-foot intervals to 10 ft bls (2-4 ft bls, 4-6 ft bls, etc.), followed by 5-foot intervals to the water table (10-15 ft bls, 15-20 ft bls, etc.). The proposed hand augered soil boring locations with the eastern retention area are displayed on **Figure 4** and sample intervals are listed on **Table 1**.

APTIM proposes to install the seven borings on December 11, 2023

A combined Trip Report for the Surface Water, Sediment and Hand Auger Soil Sampling will be prepared documenting the field events. The Trip Report will include a summary of the work completed field tables summarizing the samples collected, field maps showing the sampling locations, a photo log representative of the work performed, and copies of field notes. The Surface Water,



Sediment and Hand Auger Soil Sampling Trip Report will be compiled and submitted to the FDEP SIS by January 5, 2024.

## **DPT Soil Sampling**

On February 8, 2024, in advance of direct-push soil sampling and sonic drilling monitoring well installation, APTIM will perform a utility clearance investigation of each proposed locations. The investigation will involve GPR scans of each proposed location for evaluation of possible underground conflicts.

To aid in defining the extent of PFAS soil impacts across the site, APTIM proposes to install 24 additional soil borings. Soil borings **SB-22** through **SB-45** will be installed using direct-push technology (DPT) to obtain the depths necessary to reach the shallow water table (if present). In the event that a shallow water table is not encountered within the boring, then the boring will be advanced until refusal to advance the boring is encountered. This Work Plan estimates refusal to occur at 50 feet bls. During the advancement of the borehole, soil samples will be collected at intervals of 0-0.5 ft bls, 0-5.-2 ft bls, and 2-foot intervals to 10 ft bls, followed by 5-foot intervals to the shallow water table or refusal, whichever is shallower. The borehole will be grouted from the bottom to the surface upon completion. The proposed DPT soil boring locations are displayed on **Figure 5** and sample intervals are listed on **Table 1**.

APTIM proposes to install the 24 DPT borings over the period of February 12 to 16, 2024.

A Trip Report for the DPT Soil Sampling will be prepared following the event which will include a summary of the work completed, field tables summarizing the samples collected, field maps showing the sampling locations, a photo log representative of the work performed, and copies of field notes. The DPT Soil Boring Sampling Trip Report will be compiled and submitted to the FDEP SIS by March 1, 2024.

## Well Installations and Sampling

To further evaluate the extent and distribution of groundwater impacts associated with the site, APTIM will install 13 monitoring wells. Monitoring wells **MW-9** through **MW-16** (shallow zone) and **MW-17** through **MW -21** (Floridan) will be installed by sonic drilling methods. Previous assessment activities performed at the site predict the depth to groundwater will vary significantly with distance from the retention pond area, and in some cases a shallow groundwater unit may not be encountered. Monitoring wells **MW-9** through **MW-16** (shallow zone wells) are proposed to be installed to the top of a previously identified competent clay which is anticipated to occur at an estimated depth of approximately 40 ft bls to 45 ft bls. Lithologic cores will be collected and reviewed by APTIM personnel during advancement of the well bore hole prior to installing the well material to ensure the bottom of the surficial aquifer unit (if present). The cost budget for this work provides for the installations up to 50 ft bls. Lithologic cores will not be collected from monitoring wells **MW-9**, **MW-13**, **MW-15**, and **MW-16** as these wells are proposed to be installed adjacent to Floridan wells, in which the lithology well be determined during the installation of the deeper well.

Monitoring wells **MW-17** through **MW-21** (Floridan wells) will be installed to a proposed maximum total depth of 100 ft bls. Lithologic cores will be collected and reviewed by APTIM personnel during advancement of the well bore hole prior to installing the well material to ensure the well screens are placed below the surficial clays and within the underlying limestone.



All monitoring wells will be installed using sonic drilling methods with a minimum 6-inch diameter borehole. The wells will be constructed with 20 feet of 2-inch diameter, 0.006-inch slotted, Schedule (SCH) 40 polyvinyl chloride (PVC) pre-packed well screen and 2-inch diameter SCH 40 PVC riser. Metallic well centralizers will be utilized within the screened interval. A 30/65 grade silica sand will be installed to approximately 2 feet above the well screen, with the remainder of the boreholes grouted to approximately 0.5 ft bls using Portland Type II cement. The Floridan wells will also have approximately 1-foot of coated bentonite pellets and approximately 1-foot of 30/65 grade silica sand placed above the well screen sand pack before introducing the grout. All wells will be completed at the surface with flush-mounted 8-inch diameter manholes with bolt down lids, set in a 2-foot by 2-foot concrete pad, and a well expansion plug.

The proposed monitoring well locations are displayed on **Figure 6** (Shallow Zone) and **Figure 7** (Floridan). Note that the figures show alternative (multiple) locations for monitoring wells MW-12 and MW-16 in the Shallow Zone and monitoring well MW-21 in the Floridan. These locations will be determined and approved by the FDEP based on ROW research and discussions with private property owners.

APTIM proposes to install the 13 monitoring wells over the period of February 26, 2024, to March 8, 2024, a period of approximately 10 working days.

## Well Sampling and Survey

To evaluate the current trend and distribution of groundwater impacts, APTIM will complete a groundwater sampling event at the site following the well installations. APTIM will collect groundwater samples from piezometers PZ-1 through PZ-7 and monitoring wells MW-1 through MW-21. Sampling activities will be performed in general accordance with the FDEP's SOP for Field Activities DEP-SOP-001/01, dated January 2017 (effective date April 14, 2018) and the FDEP's Draft PFAS Sampling SOP dated October 2019, via the micropurge technique. A variable-speed peristaltic pump and/or variable-speed bladder pump with clean polyethylene tubing will be used for purging and sampling activities. The screened intervals for all existing piezometer and monitoring wells and the well screen placement zones of the proposed wells (MW-9 through MW-21) are referenced on **Table 1**.

Following monitoring well installations, a survey will be completed of piezometers PZ-1 through PZ-7 and monitoring wells MW-1 through MW-21. The survey will document the latitude and longitude of each piezometer and well, using a horizontal control referenced to NAD 83/90, and determine the ground elevation and top of casing elevations, measured and referenced to NAVD 1988 datum, for each location. Vertical control benchmarks, referenced to NAVD 88, will also be established on the far eastern and western sides of the firefighting training area.

APTIM proposes to sample all piezometers and monitoring wells and coordinate the site survey over the period of March 18 – 20, 2024.

Upon completion of the groundwater sampling and site survey, APTIM will prepare a Well Installations and Groundwater Sampling Trip Report. The report will include a summary of the work completed, a photo log representative of the work performed, and copies of lithologic logs, well construction documentation, groundwater sampling logs and field notes. The Well Installations and Groundwater Sampling Trip Report will be compiled and submitted to the FDEP SIS by April 3, 2024.

Upon completion of the proposed field activities, soil and liquid composite samples will be collected for characterization and disposal of the estimated 41 drums of IDW generated during drilling and



sampling. Composite samples of the drummed soil and liquid will be analyzed for PFAS by Method DEP SOP: LC-001-3 at the FDEP Laboratory in Tallahassee. An IDW Trip Report will be prepared following the Pickup of the estimated 41 total drums by EnviroServe, which will include a brief summary of the work performed, the planned final disposition of the waste, photo documentation of the pickup and copies of the transportation manifests. The IDW Pickup Trip Report will be compiled and submitted to the FDEP SIS by June 19, 2024.

## Reporting

Upon receipt of the laboratory data, disposal documentation and the survey, APTIM will prepare and submit a Supplemental Site Assessment Report (SSAR). The SSAR, prepared in accordance with the requirements of Chapter 62-780, the Contaminated Site Cleanup Criteria, will document the field activities performed, summarize the soil and groundwater data, provide figures displaying the extent of impacts and provide recommendations for future site activities. Based on the allowed sample holding times of up to 56 days, APTIM anticipates submittal of the SSAR by July 15, 2024.

A summary of the proposed Work Plan Schedule is displayed below. The schedule may adjust as the job progresses due to circumstances outside of APTIM's control. Any adjustment anticipated in the schedule will be communicated to the FDEP as quickly as possible.

Task	Proposed Date
Site Meeting, GPR Clearance of <b>SB-15</b> to <b>SB-21</b> , Evaluate if Water Present in Surface Water Ponds, Discussion with County Utility and Public Works	11/29/23
Collect surface water samples <b>SW-2</b> to <b>SW-7</b> and sediment samples <b>SED-3</b> to <b>SED-17</b>	12/04/23
Hand-install soil borings SB-15 to SB-21 in eastern stormwater retention area	12/11/23
Surface Water, Sediment and Hand Auger Soil Sampling Trip Report	1/05/24
GPR clearance of soil borings <b>SB-22</b> to <b>SB-45</b> and monitoring wells <b>MW-9</b> to <b>MW-21</b>	2/08/24
DPT install of soil borings SB-22 to SB-45	2/12/24 – 2/16/24
DPT Soil Boring Sampling Trip Report	3/01/24
Sonic install of monitoring wells MW-9 to MW-21	2/26/24 to 3/08/24
Collect groundwater samples from piezometers <b>PZ-1</b> to <b>PZ-7</b> and monitoring wells <b>MW-1</b> to <b>MW-21</b>	3/18/24 to 3/20/24
Site survey	3/18/24
Well Installations and Groundwater Sampling Trip Report	4/03/24
IDW pickup	6/05/24
IDW Trip Report	6/19/24
Supplemental SAR	7/15/24



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APTIM will keep the FDEP updated of site progress and any anticipated changes to the timing of the proposed Work Plan over the course of this assignment. If you have any questions about the proposed Work Plan, please do not hesitate to contact myself or Gregg Roberts. I can be reached at (352) 442-0967 or <u>james.cheze@aptim.com</u>, and Gregg is available at (813) 612-3687 or <u>gregg.roberts@aptim.com</u>.

Jim Cheze, P.G. Project Geologist

Gregg Roberts, P.G. Project Manager

Attachments: Draft Field Sample Collection Table Figures

cc: Tampa Project File

#### **Disclaimer**

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. APTIM is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. APTIM does not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

#### Facility Name: Citrus County Fire Training Center

Sample											
Location	Date	Time	Collection Depth (ft bls)	ID	Matrix	Sample Collection Method	Targeted Total Depth (ft bls)	Comments			
	Į.	l.			Hand Aug	er Soil Samples					
			0.0 - 0.5		-						
			0.5 - 2								
			2 - 4				15				
SB-15			4 - 6		Soil	Hand	or				
			6 - 8		-	Auger	groundwater				
			8 - 10								
			10 - 15								
			0.0 - 0.5								
			0.5 - 2								
			2 - 4				15				
SB-16			4 - 6		Soil	Hand Auger	or				
			6 - 8				groundwater				
			8 - 10								
			10 - 15								
			0.0 - 0.5								
			0.5 - 2			Hand Auger	15 or				
			2 - 4		-						
SB-17			4 - 6		Soil						
			6 - 8			-	groundwater				
		8 - 10									
			10 - 15								
			0.0 - 0.5		-	Hand Auger					
			0.5 - 2				15 or groundwater				
			2 - 4								
SB-18			4 - 6		Soil						
			6 - 8								
			8 - 10								
			10 - 15								
			0.0 - 0.5		-						
			0.5 - 2		-						
SP 10			2-4		Soil	Hand	15				
30-19			6 9		001	Auger	groundwater				
			8 - 10								
			10 - 15								
			0.0 - 0.5								
			0.5 - 2								
			2 - 4				15				
SB-20			4 - 6		Soil	Hand	or				
			6 - 8			Auger	groundwater				
			8 - 10								
			10 - 15								
			0.0 - 0.5								
			0.5 - 2								
			2 - 4				15				
SB-21			4 - 6		Soil	Hand	or				
			6 - 8			Auger	groundwater				
			8 - 10		1						
			10 - 15								

#### Facility Name: Citrus County Fire Training Center

	Sample											
Location	Date	Time	Collection Depth (ft bls)	ID	Matrix	Sample Collection Method	Targeted Total Depth (ft bls)	Comments				
	ł				Direct-Pus	h Soil Samples						
			0.0 - 0.5									
			0.5 - 2									
			2-4									
			4-0 6-8									
			8 - 10									
00.00			10 - 15		0-1	Direct-	groundwater					
30-22			15 - 20		301	Push	or refusal					
			20 - 25									
			25 - 30									
			30 - 35									
			40 - 45									
			45 - 50									
			0.0 - 0.5									
			0.5 - 2									
			2 - 4			Direct- Push	groundwater					
			4-6									
			8 - 10									
			10 - 15									
SB-23			15 - 20		Soil		or refusal					
			20 - 25									
			25 - 30									
			30 - 35									
			35 - 40									
			45 - 50									
			0.0 - 0.5									
			0.5 - 2									
			2 - 4									
			4 - 6									
			6-8 8-10									
			10 - 15			Direct-	aroundwater					
SB-24			15 - 20		Soil	Push	or refusal					
			20 - 25									
			25 - 30									
			30 - 35									
			35 - 40 40 - 45									
			45 - 50									
			0.0 - 0.5									
			0.5 - 2									
			2 - 4									
			4 - 6									
			6-8 8-10									
			0 - 10			Direct-	aroundwater					
SB-25			15 - 20		Soil	Push	or refusal					
			20 - 25									
		-	25 - 30	-								
			30 - 35									
			35 - 40									
			40 - 40									

#### Facility Name: Citrus County Fire Training Center

Sample											
Location	Date	Time	Collection Depth (ft bls)	ID	Matrix	Sample Collection Method	Targeted Total Depth (ft bls)	Comments			
			0.0 - 0.5								
			0.5 - 2								
			2 - 4								
			4 - 6								
			6 - 8								
			8 - 10								
SB-26			10 - 15		Soil	Direct- Push	groundwater or refusal				
			15 - 20			1 0011	or rendear				
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
			0.5 - 2								
			2 - 4				groundwater or refusal				
			4-0			Direct- Push					
			8 - 10								
			10 - 15		Soil						
SB-27	SB-27		15 - 20								
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
			2 - 4								
			4 - 6								
			6 - 8								
			8 - 10								
SB-28			10 - 15		Soil	Direct-	groundwater				
			15 - 20			Push	or refusal				
			20 - 25								
			25 - 30								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
		-	0.5 - 2								
			2 - 4								
			4 - 6								
			6-8								
			8 - 10			<b>D</b> <sup>1</sup>					
SB-29			10 - 15		Soil	Direct- Push	groundwater or refusal				
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								

#### Facility Name: Citrus County Fire Training Center

Sample											
Location	Date	Time	Collection Depth (ft bls)	ID	Matrix	Sample Collection Method	Targeted Total Depth (ft bls)	Comments			
			0.0 - 0.5								
			0.5 - 2								
			2 - 4								
			4 - 6								
			6 - 8								
			8 - 10								
SB-30			10 - 15		Soil	Direct- Push	groundwater or refusal				
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
			0.5 - 2								
			2-4				groundwater				
			6-8			Direct-					
			8 - 10								
00.04			10 - 15								
SB-31		15 - 20		501	Push	or refusal					
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			0.0 - 0.5				groundwater				
			0.5 - 2								
			2 - 4								
			4 - 6								
			6 - 8								
			8 - 10								
SB-32			10 - 15		Soil	Direct- Push					
			15 - 20			1 4511	or relusar				
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
			0.5 - 2								
			2-4								
			4-0								
			8 - 10								
00.00			10 - 15		o	Direct-	groundwater				
SB-33			15 - 20		Soil	Push	or refusal				
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								

#### Facility Name: Citrus County Fire Training Center

Sample											
Location	Date	Time	Collection Depth (ft bls)	ID	Matrix	Sample Collection Method	Targeted Total Depth (ft bls)	Comments			
			0.0 - 0.5								
			0.5 - 2								
			2-4								
			6 - 8								
			8 - 10								
SB-34			10 - 15		Soil	Direct-	groundwater				
02 01			15 - 20		001	Push	or refusal				
			20 - 25								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
			0.5 - 2								
			4 - 6				groundwater				
			6 - 8			Direct-					
			8 - 10								
SB-35			10 - 15		Soil						
		15 - 20 20 - 25			i uan	orrelasar					
			20 - 23		- - - - -						
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
			2 - 4								
			4 - 6		-						
			6 - 8								
			8 - 10								
SB-36			10 - 15		Soil	Direct- Push	groundwater or refusal				
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			0.0 - 0.5								
			0.5 - 2								
			2 - 4								
			4 - 6								
			6-8 8-10								
			10 - 15		_	Direct-	aroundwater				
SB-37			15 - 20		Soil	Push	or refusal				
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40 40 - 45								
			45 - 50								

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Location	Date	Time	Collection Depth (ft bls)	ID	Matrix	Sample Collection Method	Targeted Total Depth (ft bls)	Comments
			0.0 - 0.5					
			0.5 - 2					
			2 - 4					
			4 - 6					
			6-8					
			8 - 10			D: 1		
SB-38			15 - 20		Soil	Direct- Push	or refusal	
			20 - 25					
			25 - 30					
			30 - 35					
			35 - 40					
			40 - 45					
			45 - 50					
			0.0 - 0.5					
			2-4				groundwater or refusal	
			4 - 6					
			6 - 8			Direct- Push		
			8 - 10					
SP 20			10 - 15		Soil			
28-39			15 - 20					
			20 - 25					
			25 - 30					
			30 - 35					
			35 - 40					
			45 - 50					
			0.0 - 0.5			Direct-		
			0.5 - 2					
			2 - 4					
			4 - 6					
			6 - 8					
			8 - 10					
SB-40			10 - 15		Soil		groundwater or refusal	
			20 - 25			1 4011	or roladar	
			25 - 30					
			30 - 35					
			35 - 40					
			40 - 45					
			45 - 50					
			0.0 - 0.5					
			0.5 - 2					
			2-4					
			6-8					
			8 - 10					
00.44			10 - 15		0.1	Direct-	groundwater	
SB-41			15 - 20		Sol	Push	or refusal	
			20 - 25					
			25 - 30					
			30 - 35					
			35 - 40					
			40 - 45					
			40 - 50					

#### Facility Name: Citrus County Fire Training Center

Sample											
Location	Date	Time	Collection Depth (ft bls)	ID	Matrix	Sample Collection Method	Targeted Total Depth (ft bls)	Comments			
			0.0 - 0.5								
			0.5 - 2								
			2 - 4								
			4 - 6								
			6 - 8								
			8 - 10								
SB-42			10 - 15		Soil	Direct- Push	groundwater or refusal				
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
			0.5 - 2								
			2-4				groundwater or refusal				
			6-8								
			8 - 10			Direct- Push					
			10 - 15		Soil						
SB-43	SB-43		15 - 20								
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								
			0.5 - 2								
			2 - 4								
			4 - 6								
			6 - 8								
			8 - 10								
SB-44			10 - 15		Soil	Direct-	groundwater				
			15 - 20			Push	or refusal				
			20 - 25								
			20 - 30								
			35 - 40								
			40 - 45								
			45 - 50								
			0.0 - 0.5								
			0.5 - 2								
			2 - 4								
			4 - 6								
			6-8								
			10 - 10			Direct	aroundwater				
SB-45			15 - 20		Soil	Push	or refusal				
			20 - 25								
			25 - 30								
			30 - 35								
			35 - 40								
			40 - 45								
			45 - 50								

#### Facility Name: Citrus County Fire Training Center

Facility ID No.: ERIC\_7394

Sample											
Location	Date	Time	Collection Depth (ft bls)	ID	Matrix	Sample Collection Method	Targeted Total Depth (ft bls)	Comments			
				·	Sediment	Soil Samples					
SED-3			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-4			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-5			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-6			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-7			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-8			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-9			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-10			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-11			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-12			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-13			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-14			surface		Sediment	Hand	< 0.2	EASTERN RETENTION POND			
SED-15			surface		Sediment	Hand	< 0.2	CENTRAL RETENTION POND			
SED-16			surface		Sediment	Hand	< 0.2	CENTRAL RETENTION POND			
SED-17			surface		Sediment	Hand	< 0.2	CENTRAL RETENTION POND			
				-	Surfacew	ater Samples					
SW-2			surface		Water	Hand	surface	EASTERN RETENTION POND			
SW-3			surface		Water	Hand	surface	EASTERN RETENTION POND			
SW-4			surface		Water	Hand	surface	EASTERN RETENTION POND			
SW-5			surface		Water	Hand	surface	EASTERN RETENTION POND			
SW-6			surface		Water	Hand	surface	CENTRAL RETENTION POND			
SW-7			surface		Water	Hand	surface	CENTRAL RETENTION POND			
	1	û.	1		Groundw	ater Samples					
PZ-1			15 - 35		Water	NA					
PZ-2			20 - 40		Water	NA					
PZ-3			10 - 30		Water	NA					
PZ-4			15 - 35		Water	NA					
PZ-5			20 - 40		Water	NA					
PZ-6			10 - 30		Water	NA					
PZ-7			15 - 35		Water	NA					
MW-1			9.83 - 29.83		vvater	NA					
MW-2			15 - 30		Water	NA					
MVV-3			20 - 35		vvater	NA					
N/W 5			91-111		Water	NA					
NIW-5			59 79		Water	NA					
N/W/ 7			J0 - 70		Water	NA					
MW-7			49 - 69		Water	NA					
MW-9			shallow		Water	NA	~ 40 - 45				
MW-10			shallow		Water	NA	~ 40 - 45				
MW-11			shallow		Water	NA	~ 40 - 45				
MW-12			shallow		Water	NA	~ 40 - 45				
MW-13			shallow		Water	NA	~ 40 - 45				
MW-14			shallow		Water	NA	~ 40 - 45				
MW-15			shallow		Water	NA	~ 40 - 45				
MW-16			shallow		Water	NA	~ 40 - 45				
MW-17			floridan		Water	NA	~ 100				
MW-18			floridan		Water	NA	~ 100				
MW-19			floridan		Water	NA	~ 100				
MW-20			floridan		Water	NA	~ 100				
MW-21			floridan		Water	NA	~ 100				

Notes: ft bls = feet below land surface

Screened intervals for existing monitoring wells MW-1 through MW-8 and piezometers PZ-1 through PZ-7 are listed in the Collection Depth column. The estimated total depths are listed for to be installed monitoring wells MW -9 through MW-21.













