



January 6, 2020

Ms. Barbara Brown Project Coordinator Maryland Department of the Environment 1800 Washington Boulevard Baltimore, MD 21230

> Re: Supplemental Investigation Report: CVOC Impacted Groundwater Area A: Parcel A10 Tradepoint Atlantic Sparrows Point, MD 21219

Dear Ms. Brown:

ARM Group LLC (ARM), on behalf of EnviroAnalytics Group (EAG), completed a Phase II Investigation of Parcel A10 (the Site) in July 2016. Parcel A10 is part of Area A of the Tradepoint Atlantic property located in Sparrows Point, Maryland. Following completion of the investigation, ARM prepared a Phase II Investigation Report (Revision 1) dated July 8, 2019, which was subsequently submitted to the Maryland Department of the Environment (MDE) and the United States Environmental Protection Agency (USEPA) and approved on August 20, 2019.

During the Phase II Investigation, 11 temporary groundwater sample collection points (commonly referred to as piezometers) were installed and sampled throughout the Site. Historical permanent well SG06-PDM001 was also sampled for the Phase II investigation. Following completion of the investigation, elevated groundwater concentrations of chlorinated volatile organic compounds (CVOCs), in particular tetrachloroethene (PCE) and trichloroethene (TCE), were identified in groundwater at the Site.

The groundwater data obtained from the 11 temporary piezometers and SG06-PDM001 were screened to determine whether individual sample results, or cumulative results summed by sample location, exceeded the applicable USEPA Vapor Intrusion Screening Levels (VISLs) which evaluate the vapor intrusion to indoor air risk pathway. The VISLs were determined using the USEPA's VISL Calculator, which was set for a Target Cancer Risk (TCR) of 1E-5 and Target Hazard Quotient (THQ) of 1.

The VISL screening evaluation identified elevated groundwater CVOC concentrations resulting in potentially unacceptable vapor intrusion risks/hazards at multiple locations. **Figure 1** provides a summary of detections of PCE and TCE in the groundwater during the Phase II Investigation, which were the primary drivers of the elevated vapor intrusion risks/hazards. Based on the elevated CVOC detections and associated risks/hazards, an additional investigation was warranted to further characterize the extent of these aqueous contaminants. The off-property areas to the east of the Site (outside of Tradepoint Atlantic) are also shown on **Figure 1**. As is evident on the figure, the highest concentrations of PCE and TCE in groundwater were present in sample locations positioned along the eastern property boundary, specifically at locations A10-025-PZ and A10-027-PZ. Based on the positions of these elevated concentrations the possibility of an off-property source was considered in the preparation of the sampling Work Plan.

The Phase II Investigation piezometers were screened in one of two distinct sand layers separated by a confining or semi-confining clay unit. Based on the specific conditions encountered at each location, the piezometers had either been screened in a sand unit below the clay or above the clay within an overlying saturated zone. These two hydrogeologic zones have been designated as the "shallow" zone and the "perched" zone, respectively. While the boring/construction log is not available for the historical monitoring well SG06-PDM001, it is believed to be installed in the shallow zone because the measured groundwater elevation at this location is more consistent with the shallow zone.

A Work Plan for Characterization of CVOCs in Groundwater in Area A: Parcel A10 dated September 5, 2019 was submitted to the MDE and the USEPA. Following review of the proposed sampling approach, the Work Plan was formally approved by the agencies on September 9, 2019, and the characterization activities were initiated in Parcel A10 on September 13, 2019. This Supplemental Investigation Report provides a summary of the field methods and findings of the characterization activities.

### Field Methods

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A total of 21 new temporary piezometers were installed between September 13, 2019 and September 25, 2019 to provide supplemental sampling points to determine the nature and extent of groundwater containing elevated concentrations of CVOCs throughout Parcel A10. Seven existing piezometers were also incorporated as additional sampling points, for a total of 28 proposed sample collection locations. The Work Plan had also specified that a limited number of locations were planned to be installed/sampled in the future (outside of Parcel A10) during the separate Phase II Investigations of Parcel A16 and Parcel A18, in order to further evaluate the dissolved-phase contaminant plume(s) in the downgradient direction. At this time, the supplemental sample locations outside of Parcel A10 have not yet been completed.

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A total of 14 piezometer pairs were completed during this supplemental investigation. The locations of the piezometer pairs can be found on **Figure 2**. The locations targeted the eastern half of the parcel where the highest concentrations of CVOCs had previously been identified. All of the locations proposed in the Work Plan were successfully installed. Following the identification of all utilities in the study area, each groundwater collection point was installed in accordance with the procedures referenced in the Quality Assurance Project Plan (QAPP) Worksheet 21 – Field Standard Operating Procedures (SOPs), SOP No. 028 – Direct Push Installation and Construction of Temporary Groundwater Sample Collection Points. Pairs of piezometers were installed at the proposed locations to enable the collection of groundwater samples from both the perched and shallow groundwater zones. Regarding the seven piezometers that were sampled during the initial Phase II Investigation (A10-002-PZ, A10-015-PZ, A10-024-PZ, A10-025-PZ, A10-027-PZ, A10-029-PZ, and A10-034-PZ), additional piezometers were installed as pairs to the existing points. These piezometers were installed to investigate the corresponding groundwater zone (either perched or shallow) that the original piezometer was not targeting.

Soil cores at each location were screened and logged by ARM personnel. Soil boring logs and piezometer construction logs from this characterization investigation have been included in **Attachment 1**. All of the groundwater collection points were screened in accordance with the requirements given in the referenced SOP. The piezometer construction details (depths, screen intervals, etc.) are summarized on **Table 1**. Immediately after installation, 48 hours after installation, and immediately prior to sampling, each groundwater collection point was checked for the presence of non-aqueous phase liquid (NAPL) using an oil-water interface probe. NAPL was not detected in any of the locations.

Between October 9, 2019 and October 14, 2019, groundwater samples were collected from the 14 pairs of piezometers. Five piezometers in the perched zone (A10-024(P)-PZ, A10-025(P)-PZ, A10-027(P)-PZ, A10-034(P)-PZ, and A10-035(P)-PZ) did not yield adequate water to collect a sample. Groundwater samples were collected from a total of 23 piezometers in accordance with the procedures referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 006 – Groundwater Sampling. The sampling and purge logs are provided as **Attachment 2**. Laboratory samples were submitted to Pace Analytical Services, Inc. (PACE) and analyzed for VOCs via USEPA Method 8260. Sample containers, preservatives, and holding times for the VOCs analysis are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times.

The groundwater sample collection points were surveyed by a Maryland-licensed surveyor to obtain top of casing (TOC) elevation data. A synoptic round of groundwater measurements was collected from each location on November 6, 2019. In addition to the sample collection points, supplemental locations were included throughout the parcel to enhance the groundwater contour maps. Surveyed TOC and ground surface elevations for all applicable locations can be found in **Table 1**, along with the depth to water (DTW) measurements from this date. It is notable that the



water levels in the perched piezometers with low water yields had risen significantly since the sampling attempt in October 2019. Localized potentiometric surface maps were constructed using the gauging measurements for the shallow zone and the perched zone, as provided on **Figure 3** and **Figure 4**, respectively.

#### Investigation-Derived Waste (IDW)

In accordance with the approved Work Plan and the requirements of the QAPP, potentially impacted material, or IDW, generated during this investigation was containerized in 55-gallon (DOT-UN1A2) drums. Since additional groundwater investigation activities may be completed, the IDW has not yet been characterized for disposal. IDW sampling will be performed in accordance with standard methods prior to disposal.

#### Characterization Results

**Table 2** provides the analytical results for VOCs detected in groundwater for this investigation of Parcel A10. The laboratory reports for the supplemental characterization samples are included as electronic attachments. **Figure 5** displays the VOC concentrations in the groundwater samples which exceeded the Project Action Limits (PALs) established in the property-wide QAPP. The red highlighting in the figure indicates which of the groundwater sample locations had an elevated cumulative vapor intrusion risk potential based on the USEPA VISLs.

A summary of the cumulative vapor intrusion evaluation is provided on **Table 3**. Five of the characterization locations installed in the shallow zone (A10-025(S)-PZ, A10-027(S)-PZ, A10-034(S)-PZ, A10-035(S)-PZ, and A10-039(S)-PZ) had elevated CVOC concentrations that contributed to potentially unacceptable cumulative vapor intrusion cancer risks (>1E-05) and/or non-cancer hazards (>1). The primary CVOC causing the elevated vapor intrusion risks/hazards for all five locations was TCE. TCE was detected at concentrations of 256 ug/L, 218 ug/L, 134 ug/L, 1,670 ug/L, and 663 ug/L at locations A10-025(S)-PZ, A10-027(S)-PZ, A10-034(S)-PZ, A10-035(S)-PZ, and A10-039(S)-PZ, respectively. Each of the identified piezometers was screened in the shallow zone. PCE was detected above its individual non-cancer VISL (240 ug/L) in some instances; however, these detections did not cause the cumulative vapor intrusion non-cancer hazard index to exceed 1. It is notable that one detection of PCE during the initial Phase II Investigation (1,670 ug/L in the sample collected from A10-025(S)-PZ in July 2016) was significantly higher than the corresponding sample collected during this characterization investigation.

PCE and TCE were determined to be the most significant CVOCs in groundwater at the Site. **Figure 6** and **Figure 7** show shallow concentration isocontour maps for PCE and TCE, respectively. For both CVOCs, the elevated concentrations appear to be present in two localized hotspots along the eastern property boundary, with the highest concentrations observed in the northeastern corner of the Site. Both constituents are well defined to the west and south.





#### **Conclusions**

The concentrations of CVOCs in groundwater have been adequately defined along the eastern property boundary. Based on the localized groundwater potentiometric surface map for the shallow zone, groundwater is shown flowing in a north-northwestern direction. This supports the possibility of off-site sources causing the observed CVOC contamination in shallow groundwater along the eastern property boundary. CVOCs are well defined to the west and to the south. Additional data will be obtained to the north during the completion of the separate Parcel A16 and Parcel A18 Phase II Investigations.

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Exceedances of the acceptable cumulative vapor intrusion criteria were limited to five shallow groundwater samples (A10-0025(S)-PZ, A10-027(S)-PZ, A10-034(S)-PZ, A10-035(S)-PZ, and A10-039(S)-PZ). An overlying sample from the perched zone at these five well locations was successfully collected from only one location (A10-039(P)-PZ), and the sample from this piezometer showed a lack of significant impacts in the overlying water-bearing zone. The presence of the low-permeability soil unit, and the presence of unimpacted perched groundwater above the shallow zone, will prohibit or significantly reduce the potential for vapor intrusion due to vertical migration of vapors from contaminants in the shallow zone.

In the future, it will be necessary to incorporate the characterization findings into a vapor intrusion assessment within a Response and Development Work Plan (RADWP) for this area of the property. The need for any additional action will be contingent on future development planning. The findings suggest that a vapor barrier may be required if an enclosed structure is proposed for construction; however, the positioning of any structure at the Site with respect to the delineated groundwater plume as well as the continuity of the clay layer and the perched water-bearing layer may in part determine the necessity of a vapor barrier.

Additional data may be collected at a later date (during a pre-development investigation) to further determine the need for a vapor barrier at the Site. Any activities outside of the scope proposed in the approved Work Plan would be coordinated with the MDE under separate cover.

If you have any questions, or if we can provide any additional information at this time, please do not hesitate to contact ARM Group LLC at 410-290-7775.

Respectfully Submitted, ARM Group LLC

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## FIGURES















### **TABLES**

# Table 1 - Parcel A10 CVOC CharacterizationPiezometer Construction Details and Elevation Measurements

Location ID	TOC Elevation (ft. AMSL)	Measured DTW (ft. TOC)	Groundwater Elevation (ft. amsl)	Ground Elevation (ft. amsl)	Screen Interval (ft. bgs)	Screen Bottom Elevation (ft. amsl)	Hydraulic Zone
		Sample Loc	ations (14 Paire	ed Piezometer	·s)		
A10-002(P)-PZ	22.13	10.08	12.05	18.90	7 to 17	1.9	Perched
A10-002(S)-PZ	22.06	16.45	5.61	18.99	15 to 25	-6.0	Shallow
A10-015(P)-PZ	20.09	9.30	10.79	16.32	3.5 to 13.5	2.8	Perched
A10-015(S)-PZ	18.39	13.36	5.03	16.33	18 to 28	-11.7	Shallow
A10-024(P)-PZ	13.99	8.34	5.65	11.66	3 to 9	2.7	Perched
A10-024(S)-PZ	14.36	9.04	5.32	11.43	10 to 20	-8.6	Shallow
A10-025(P)-PZ	17.33	7.67	9.66	14.70	3 to 10	4.7	Perched
A10-025(S)-PZ	16.94	12.47	4.47	14.14	10 to 20	-5.9	Shallow
A10-027(P)-PZ	15.02	5.67	9.35	13.01	3 to 8	5.0	Perched
A10-027(S)-PZ	16.38	12.56	3.82	12.59	12 to 22	-9.4	Shallow
A10-029(P)-PZ	23.11	6.62	16.49	19.64	4 to 14	5.6	Perched
A10-029(S)-PZ	23.20	17.92	5.28	19.70	22 to 32	-12.3	Shallow
A10-034(P)-PZ	19.74	8.80	10.94	17.03	3 to 10	7.0	Perched
A10-034(S)-PZ	20.10	14.48	5.62	17.11	20 to 25	-7.9	Shallow
A10-035(P)-PZ	17.46	10.91	6.55	14.67	3 to 13	1.7	Perched
A10-035(S)-PZ	17.16	13.43	3.73	14.76	14 to 24	-9.2	Shallow
A10-036(P)-PZ	15.13	9.03	6.10	12.87	3 to 13	-0.1	Perched
A10-036(S)-PZ	15.78	12.01	3.77	12.70	14 to 24	-11.3	Shallow
A10-037(P)-PZ	16.21	7.23	8.98	14.61	3 to 13	1.6	Perched
A10-037(S)-PZ	16.71	11.35	5.36	14.36	13 to 23	-8.6	Shallow
A10-038(P)-PZ	14.15	7.28	6.87	11.76	3 to 13	-1.2	Perched
A10-038(S)-PZ	14.60	9.51	5.09	11.69	14 to 24	-12.3	Shallow
A10-039(P)-PZ	17.36	8.99	8.37	15.14	3 to 13	2.1	Perched
A10-039(S)-PZ	18.06	12.31	5.75	15.13	14 to 24	-8.9	Shallow
A10-040(P)-PZ	19.71	5.73	13.98	18.75	4 to 14	4.8	Perched
A10-040(S)-PZ	21.16	15.80	5.36	18.81	18 to 28	-9.2	Shallow
A10-041(P)-PZ	17.51	3.44	14.07	15.65	3 to 13	2.7	Perched
A10-041(S)-PZ	18.80	13.12	5.68	15.94	16 to 26	-10.1	Shallow
		Supple	mental Gauging	g Locations			
A10-010-PZ	17.98	13.22	4.76	14.24	14 to 24	-9.8	Shallow
A10-018-PZ	18.65	14.52	4.13	15.11	17 to 27	-11.9	Shallow
A10-020-PZ	13.64	8.7	4.94	12.29	14 to 24	-11.7	Shallow
A10-021-PZ	13.26	NA	NA	11.76	14 to 24	-12.2	Shallow
SG06-PDM001	12.04	9.05	2.99	12.42	4 to 14	-1.6	Shallow

DTW = Depth to water

TOC = Top of casing

bgs = below ground surface

amsl = above mean sea level

NA = Not Applicable (due to piezometer damage)

#### A10-002(P)-PZ A10-002(S)-PZ A10-015(P)-PZ A10-015(S)-PZ A10-024(S)-PZ A10-025(S)-PZ PAL Parameter Units 10/11/2019 10/15/2019 10/11/2019 10/10/2019 10/11/2019 10/15/2019 7 1.0 U 2.6 1.0 U 1.0 U 1.1-Dichloroethene ug/L 0.71 J 0.77 J 1,2-Dichlorobenzene ug/L 600 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 3.4 1,2-Dichloroethene (Total) 70 2.0 U 2.0 U 2.0 U 2.0 U 2.0 U 148 ug/L 75 1.2 1,4-Dichlorobenzene ug/L 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 2-Butanone (MEK) 5,600 10.0 U 10.0 U 10.0 U 10.0 U 10.0 U ug/L 10.0 U 5.9 J 10.0 U Acetone ug/L 14,000 10.0 U 10.0 U 10.0 U 10.0 U Bromomethane 7.5 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U ug/L Carbon disulfide 810 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U ug/L 5 Carbon tetrachloride 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U ug/L Chlorobenzene 100 1.0 U 1.0 U 1.0 U ug/L 1.0 U 1.0 U 0.93 J 0.22 1.0 U 1.0 U 1.0 U 1.0 U Chloroform ug/L 1.0 U 1.0 U cis-1.2-Dichloroethene 70 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U ug/L 147 Methyl acetate 20.000 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U ug/L 14 2.3 1.0 U 1.7 Methyl-tert-butyl ether ug/L 1.0 U 1.0 U 1.0 U 11.9 Tetrachloroethene ug/L 5 1.0 U 1.0 U 8.0 1.0 U 284 1.0 U Toluene 1.000 0.40 J 1.0 U 1.0 U 1.0 U 1.0 U ug/L trans-1.2-Dichloroethene 100 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 0.90 J ug/L 2.7 1.0 U 1.0 U Trichloroethene 5 1.0 U 5.3 256 ug/L 2 Vinyl chloride ug/L 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 18.6

# Table 2 - Parcel A10 CVOC CharacterizationSummary of VOCs Detected in Groundwater

#### **Detections in bold**

#### Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

Parameter	Units	ΡΔΙ	A10-027(S)-PZ	A10-029(P)-PZ	A10-029(S)-PZ	A10-034(S)-PZ	A10-035(S)-PZ	A10-036(P)-PZ
i urumotor	Onto	1712	10/9/2019	10/11/2019	10/15/2019	10/15/2019	10/11/2019	10/11/2019
1,1-Dichloroethene	ug/L	7	1.0 U	1.0 U	1.0 U	0.87 J	1.2	1.0 U
1,2-Dichlorobenzene	ug/L	600	3.1	1.0 U	1.0 U	2.0	1.0 U	1.0 U
1,2-Dichloroethene (Total)	ug/L	70	8.3	2.0 U	2.0 U	33.6	23.1	2.0 U
1,4-Dichlorobenzene	ug/L	75	1.0 U					
2-Butanone (MEK)	ug/L	5,600	10.0 U	8.7 J	10.0 U	10.0 U	10.0 U	10.0 U
Acetone	ug/L	14,000	10.0 U	410 J	10.0 U	8.0 J	10.0 U	33.8 U
Bromomethane	ug/L	7.5	1.0 U					
Carbon disulfide	ug/L	810	1.0 U					
Carbon tetrachloride	ug/L	5	0.94 J	1.0 U				
Chlorobenzene	ug/L	100	1.0 U	1.0 U	1.0 U	2.1	1.0 U	1.0 U
Chloroform	ug/L	0.22	2.1	1.0 U	1.0 U	1.0 U	0.76 J	1.0 U
cis-1,2-Dichloroethene	ug/L	70	8.3	1.0 U	1.0 U	33.1	23.1	1.0 U
Methyl acetate	ug/L	20,000	5.0 U	5.0 U	0.86 J	5.0 U	5.0 U	5.0 U
Methyl-tert-butyl ether	ug/L	14	1.0 U	1.0 U	1.4	1.3	1.0 U	1.0 U
Tetrachloroethene	ug/L	5	44.8	1.0 U	1.0 U	160	285	1.0 U
Toluene	ug/L	L 1,000 1.0 U 1.0 U 1.0 U 1.0 U		1.0 U	1.0 U	1.0 U		
trans-1,2-Dichloroethene	ug/L	100	1.0 U	1.0 U	1.0 U	0.53 J	1.0 U	1.0 U
Trichloroethene	ug/L	5	218	1.0 U	1.0 U	134	1,670	1.0 U
Vinyl chloride	ug/L	2	1.0 U	1.0 U	1.0 U	5.8	0.59 J	1.0 U

# Table 2 - Parcel A10 CVOC CharacterizationSummary of VOCs Detected in Groundwater

#### **Detections in bold**

#### Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

Parameter	Units	ΡΔΙ	A10-036(S)-PZ	A10-037(P)-PZ	A10-037(S)-PZ	A10-038(P)-PZ	A10-038(S)-PZ	A10-039(P)-PZ
i arameter	Onits	TAL	10/10/2019	10/11/2019	10/10/2019	10/11/2019	10/11/2019	10/11/2019
1,1-Dichloroethene	ug/L	7	1.0 U					
1,2-Dichlorobenzene	ug/L	600	1.0 U					
1,2-Dichloroethene (Total)	ug/L	70	1.8 J	2.0 U				
1,4-Dichlorobenzene	ug/L	75	1.0 U					
2-Butanone (MEK)	ug/L	5,600	10.0 U					
Acetone	ug/L	14,000	10.0 U	213	10.0 U	27.6	10.0 U	23.1
Bromomethane	ug/L	7.5	1.0 U					
Carbon disulfide	ug/L	810	1.0 U	1.0 U	1.0 U	7.8	1.0 U	1.0 U
Carbon tetrachloride	ug/L	5	1.0 U					
Chlorobenzene	ug/L	100	1.0 U					
Chloroform	ug/L	0.22	1.0 U					
cis-1,2-Dichloroethene	ug/L	70	1.8	1.0 U				
Methyl acetate	ug/L	20,000	5.0 U	5.0 U	5.0 U	2.3 J	5.0 U	5.0 U
Methyl-tert-butyl ether	ug/L	14	1.0 U					
Tetrachloroethene	ug/L 5 <b>1.5</b> 1.0 U		1.0 U					
Toluene	ug/L	1,000	1.0 U	0.74 J				
trans-1,2-Dichloroethene	ug/L	100	1.0 U					
Trichloroethene	ug/L	5	4.4	1.0 U	1.3	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	2	1.0 U					

# Table 2 - Parcel A10 CVOC CharacterizationSummary of VOCs Detected in Groundwater

#### **Detections in bold**

#### Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

Parameter	Units	ΡΔΙ	A10-039(S)-PZ	A10-040(P)-PZ	A10-040(S)-PZ	A10-041(P)-PZ	A10-041(S)-PZ
i diameter	Onto	1712	10/15/2019	10/11/2019	10/15/2019	10/10/2019	10/15/2019
1,1-Dichloroethene	ug/L	7	1.8	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	600	1.0 U				
1,2-Dichloroethene (Total)	ug/L	70	98.2	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	ug/L	75	1.0 U				
2-Butanone (MEK)	ug/L	5,600	10.0 U				
Acetone	ug/L	14,000	9.2 J	77.5	10.0 U	10.0 U	10.0 U
Bromomethane	ug/L	7.5	1.0 U	1.0 U	1.0 U	0.76 J	1.0 U
Carbon disulfide	ug/L	810	1.0 U				
Carbon tetrachloride	ug/L	5	1.0 U				
Chlorobenzene	ug/L	100	0.62 J	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	0.22	1.0 U				
cis-1,2-Dichloroethene	ug/L	70	97.7	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	ug/L	20,000	5.0 U				
Methyl-tert-butyl ether	ug/L	14	0.78 J	1.0 U	1.2	1.0 U	1.0 U
Tetrachloroethene	ug/L	5	232	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	L 1,000 1.0 U 1.0 U 1.0 U		1.0 U	1.0 U		
trans-1,2-Dichloroethene	ug/L	100	0.50 J	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	5	663	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	2	3.2	1.0 U	1.0 U	1.0 U	1.0 U

# Table 2 - Parcel A10 CVOC CharacterizationSummary of VOCs Detected in Groundwater

#### **Detections in bold**

#### Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

### Table 3 - Parcel A10 CVOC CharacterizationCumulative Vapor Intrusion Comparison

				A10-00	)2(P)-PZ	A10-00	)2(S)-PZ	A10-01	5(P)-PZ	A10-01	5(S)-PZ
Parameter	Type	Organ System	VI Screening	Conc.	Risk/	Conc.	Risk/	Conc.	Risk/	Conc.	Risk/
	51	2,	Criteria (ug/L)	(ug/L)	Hazard	(ug/L)	Hazard	(ug/L)	Hazard	(ug/L)	Hazard
Cancer Risk											
1,4-Dichlorobenzene	VOC		110	1 U	0	1 U	0	1 U	0	1 U	0
Carbon tetrachloride	VOC		18	1 U	0	1 U	0	1 U	0	1 U	0
Chloroform	VOC		36	1 U	0	1 U	0	1 U	0	1 U	0
Methyl tert-butyl ether	VOC		20,000	1 U	0	2.3	1.2E-09	1 U	0	1.7	8.5E-10
Vinyl chloride	VOC		25	1 U	0	1 U	0	1 U	0	1 U	0
Tetrachloroethene	VOC		650	1 U	0	11.9	1.8E-07	1 U	0	8	1.2E-07
Trichloroethene	VOC		74	1 U	0	2.7	3.6E-07	1 U	0	5.3	7.2E-07
		Cumulative Vapor Intrusi	ion Cancer Risk		0		5E-07		0		8E-07
Non-Cancer Hazard											
Tetrachloroethene	VOC	Nervous; Ocular	240	1 U	0	11.9	0.05	1 U	0	8	0.03
	Cur	nulative Vapor Intrusion Non	-Cancer Hazard		0		0		0		0
Trichloroethene	VOC	Cardiovascular; Developmental; Immune	22	1 U	0	2.7	0.1	1 U	0	5.3	0.2
	Cur	nulative Vapor Intrusion Non	-Cancer Hazard		0		0		0		0

				A10-02	24(S)-PZ	A10-02	25(S)-PZ	A10-02	27(S)-PZ	A10-02	.9(P)-PZ
Parameter	Туре	Organ System	VI Screening Criteria (ug/L)	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard
Cancer Risk											
1,4-Dichlorobenzene	VOC		110	1 U	0	1.2	1.1E-07	1 U	0	1 U	0
Carbon tetrachloride	VOC		18	1 U	0	1 U	0	0.94 J	5.2E-07	1 U	0
Chloroform	VOC		36	1 U	0	1 U	0	2.1	5.8E-07	1 U	0
Methyl tert-butyl ether	VOC		20,000	1 U	0	1 U	0	1 U	0	1 U	0
Vinyl chloride	VOC		25	1 U	0	18.6	7.4E-06	1 U	0	1 U	0
Tetrachloroethene	VOC		650	1 U	0	284	4.4E-06	44.8	6.9E-07	1 U	0
Trichloroethene	VOC		74	1 U	0	256	3.5E-05	218	2.9E-05	1 U	0
		Cumulative Vapor Intrusi	ion Cancer Risk		0		5E-05		3E-05		0
Non-Cancer Hazard											
Tetrachloroethene	VOC	Nervous; Ocular	240	1 U	0	284	1	44.8	0.2	1 U	0
	Cur	nulative Vapor Intrusion Non	-Cancer Hazard		0		1		0		0
Trichloroethene	VOC	Cardiovascular; Developmental; Immune	22	1 U	0	256	12	218	10	1 U	0
	Cur	nulative Vapor Intrusion Non	-Cancer Hazard		0		12		10		0

Highlighted values indicate exceedances of the cumulative vapor intrusion crtieria: TCR>1E-05 or THI>1

Conc. = Concentration

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

### Table 3 - Parcel A10 CVOC CharacterizationCumulative Vapor Intrusion Comparison

				A10-02	29(S)-PZ	A10-03	84(S)-PZ	A10-03	85(S)-PZ	A10-03	6(P)-PZ
Parameter	Type	Organ System	VI Screening	Conc.	Risk/	Conc.	Risk/	Conc.	Risk/	Conc.	Risk/
T di di lineter	rype	organ bystom	Criteria (ug/L)	(ug/L)	Hazard	(ug/L)	Hazard	(ug/L)	Hazard	(ug/L)	Hazard
Cancer Risk											
1,4-Dichlorobenzene	VOC		110	1 U	0	1 U	0	1 U	0	1 U	0
Carbon tetrachloride	VOC		18	1 U	0	1 U	0	1 U	0	1 U	0
Chloroform	VOC		36	1 U	0	1 U	0	0.76 J	2.1E-07	1 U	0
Methyl tert-butyl ether	VOC		20,000	1.4	7.0E-10	1.3	6.5E-10	1 U	0	1 U	0
Vinyl chloride	VOC		25	1 U	0	5.8	2.3E-06	0.59 J	2.4E-07	1 U	0
Tetrachloroethene	VOC		650	1 U	0	160	2.5E-06	285	4.4E-06	1 U	0
Trichloroethene	VOC		74	1 U	0	134	1.8E-05	1,670	2.3E-04	1 U	0
		Cumulative Vapor Intrusi	ion Cancer Risk		7E-10		2E-05		2E-04		0
Non-Cancer Hazard											
Tetrachloroethene	VOC	Nervous; Ocular	240	1 U	0	160	0.7	285	1	1 U	0
	Cur	nulative Vapor Intrusion Non	-Cancer Hazard		0		1		1		0
Trichloroethene	VOC	Cardiovascular; Developmental; Immune	22	1 U	0	134	6	1,670	76	1 U	0
	Cur	nulative Vapor Intrusion Non	-Cancer Hazard		0		6		76		0

Parameter Type Organ System				A10-03	86(S)-PZ	A10-03	87(P)-PZ	A10-03	57(S)-PZ	A10-03	8(P)-PZ
Parameter	Туре	Organ System	VI Screening Criteria (ug/L)	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard
Cancer Risk											
1,4-Dichlorobenzene	VOC		110	1 U	0	1 U	0	1 U	0	1 U	0
Carbon tetrachloride	VOC		18	1 U	0	1 U	0	1 U	0	1 U	0
Chloroform	VOC		36	1 U	0	1 U	0	1 U	0	1 U	0
Methyl tert-butyl ether	VOC		20,000	1 U	0	1 U	0	1 U	0	1 U	0
Vinyl chloride	VOC		25	1 U	0	1 U	0	1 U	0	1 U	0
Tetrachloroethene	VOC		650	1.5	2.3E-08	1 U	0	1 U	0	1 U	0
Trichloroethene	VOC		74	4.4	5.9E-07	1 U	0	1.3	1.8E-07	1 U	0
		Cumulative Vapor Intrusi	ion Cancer Risk		6E-07		0		2E-07		0
Non-Cancer Hazard											
Tetrachloroethene	VOC	Nervous; Ocular	240	1.5	0.006	1 U	0	1 U	0	1 U	0
	Cun	nulative Vapor Intrusion Non-	-Cancer Hazard		0		0		0		0
Trichloroethene	VOC	Cardiovascular; Developmental; Immune	22	4.4	0.2	1 U	0	1.3	0.06	1 U	0
	Cun	nulative Vapor Intrusion Non	-Cancer Hazard		0		0		0		0

Highlighted values indicate exceedances of the cumulative vapor intrusion crtieria: TCR>1E-05 or THI>1

Conc. = Concentration

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

### Table 3 - Parcel A10 CVOC CharacterizationCumulative Vapor Intrusion Comparison

				A10-03	38(S)-PZ	A10-03	89(P)-PZ	A10-03	89(S)-PZ	A10-04	+0(P)-PZ
Parameter	Туре	Organ System	VI Screening Criteria (ug/L)	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard
Cancer Risk										( 8 /	
1,4-Dichlorobenzene	VOC		110	1 U	0	1 U	0	1 U	0	1 U	0
Carbon tetrachloride	VOC		18	1 U	0	1 U	0	1 U	0	1 U	0
Chloroform	VOC		36	1 U	0	1 U	0	1 U	0	1 U	0
Methyl tert-butyl ether	VOC		20,000	1 U	0	1 U	0	0.78 J	3.9E-10	1 U	0
Vinyl chloride	VOC		25	1 U	0	1 U	0	3.2	1.3E-06	1 U	0
Tetrachloroethene	VOC		650	1 U	0	1 U	0	232	3.6E-06	1 U	0
Trichloroethene	VOC		74	1 U	0	1 U	0	663	9.0E-05	1 U	0
		Cumulative Vapor Intrus	ion Cancer Risk		0		0		9E-05		0
Non-Cancer Hazard											
Tetrachloroethene	VOC	Nervous; Ocular	240	1 U	0	1 U	0	232	1	1 U	0
	Cur	nulative Vapor Intrusion Non	-Cancer Hazard		0		0		1		0
Trichloroethene	VOC	Cardiovascular; Developmental; Immune	22	1 U	0	1 U	0	663	30	1 U	0
	Cur	nulative Vapor Intrusion Non	-Cancer Hazard		0		0		30		0

				A10-04	O(S)-PZ	A10-04	1(P)-PZ	A10-04	1(S)-PZ
Parameter	Туре	Organ System	VI Screening Criteria (ug/L)	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard
Cancer Risk									
1,4-Dichlorobenzene	VOC		110	1 U	0	1 U	0	1 U	0
Carbon tetrachloride	VOC		18	1 U	0	1 U	0	1 U	0
Chloroform	VOC		36	1 U	0	1 U	0	1 U	0
Methyl tert-butyl ether	VOC		20,000	1.2	6.0E-10	1 U	0	1 U	0
Vinyl chloride	VOC		25	1 U	0	1 U	0	1 U	0
Tetrachloroethene	VOC		650	1 U	0	1 U	0	1 U	0
Trichloroethene	VOC		74	1 U	0	1 U	0	1 U	0
		Cumulative Vapor Intrusi	on Cancer Risk		6E-10		0		0
Non-Cancer Hazard									
Tetrachloroethene	VOC	Nervous; Ocular	240	1 U	0	1 U	0	1 U	0
	Cui	mulative Vapor Intrusion Non	-Cancer Hazard		0		0		0
Trichloroethene	VOC	Cardiovascular; Developmental; Immune	22	1 U	0	1 U	0	1 U	0
	Cui	mulative Vapor Intrusion Non-	-Cancer Hazard		0		0		0

Highlighted values indicate exceedances of the cumulative vapor intrusion crtieria: TCR>1E-05 or THI>1

Conc. = Concentration

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

Attachment 1

		<u> </u>	ARM Gr Engineers an	oup LLC d Scientists	Client ARM Project No. Project Description Site Location ARM Representative Checked by	: Envi : 180 : Spa : Spa : L. P	iroAı 716N Irrow Irrow Perrin Replo	nalytics ( M vs Point - vs Point, I n / L. Glui pole, E.I.	Group Parcel A MD mac (S) T.	A10	Piezor Piezor Casing Boreh Riser/	meter Ir meter Ir g/Riser, ole Dia Screen	nstallati nstallati /Screer meter Diame	ion Date ion Date n Type ter	: 07/0 : 09/1 : PVC : 2.25 : 1"	6/2016 9/2019 (S) C
Во	orin	g ID	0: A10-002	2-SB/PZ age 1 of 1)	Drilling Company Driller Drilling Equipment	: GSI : D. M : Geo	/arcl	hese / T. be 7822D	Niblett (\$ )T	(S)	0-Hr E 48-Hr No LN	DTW (ft DTW (f IAPL or	TOC) ft TOC) · DNAP	L detected	: 9.20 : 9.50 d at 0 o	9 / 17.57 (S) 9 / 17.35 (S) r 48 hours
Depth (ft.)	% Recovery	PID Reading (PPM)	Sample ID/Interval	DES	CRIPTION		NSCS	A10-	-002-PZ	<u>Z</u>		A10	-002(S	\$)-PZ		REMARKS
-0	20		A10-002-SB-1	(0-0.5') CONCF (0.5-6') CLAY, , medium plastic	RETE medium, brown, dry, ity, cohesive	c	ж		Be	enton	ite sea	al				N / E (US ft) 571161.93 / 1464918.46 571153.14 / 1464909.62
5-	60	0.0 - - 0.0	A10-002-SB-5	(6-7.9') SANDY reddish brown, cohesive	CLAY, medium, dry, low plasticity,	s	SC			PVC	Riser		,	Bentonite	seal	(S)
- - 10		0.0 0.0 0.0 0.0	A10-002-SB-10	(7.9-8.8') SANE reddish tan, mc cohesion (8.8-16.4') CLA with light gray, plasticity, cohes	D, fine, dense, oist, no plasticity, no Y, hard, light brown dry, medium sive	S	SP			and P	ack		<u>} · · ·</u> 1	I" PVC R	liser	
- - 15-	100	0.0 0.0 0.0 0.0				C	н			1 00	-	▼				
-	100	0.0		(16.4-17.9') SA light brown with plasticity, cohes	NDY CLAY, medium, i light gray, dry, low sive											
20-		0.0		dark gray, mois cohesive (19.2-21') SILT gray, moist, no	Y SAND, dense, dark	s	SM							Sand Pao 1" PVC S	creen	Wet at 19' bgs
	82	- - -		(21-25') SAND, wet, reddish brr dark red (22.6-2 brown (22.9-23) (23.2-23.6' bgs (23.6-24.3' bgs	very fine, dense, own (21-22.6' bgs), 22.9' bgs), reddish .2' bgs), dark red ), reddish brown ), light brown and	s	SP									
20-				pale brown (24. gray (24.8-25' b plasticity, no co	.3-24.8' bgs), light ogs), wet, no hesion											
Boring TOC: T DTW: D bgs: Be AMSL:	termin op of Depth elow g Abov	nated a PVC c to wat round e meai	at 25' bgs due to æsing er surface n sea level	water and piezome	ter installation.	R R S S	Riser Riser Scree Sand Bento	Stickup: : 0 - 7' bç en: 7 - 17 Pack: 5 onite Sea	3.20' / 3 gs / 0 - 1 '' bgs / 1 - 17' bgs il: 0 - 5' b	3.00' (\$ 5' bgs 5 - 25' s / 13 - bgs / 0	S) (S) bgs (S 25' bg - 13' b	5) [Slot s (S) [/ gs (S)	Size: 0. Grain S [chips/ç	.010"] Size: WG # granular]	ŧ2]	

			Engineers an	oup LLC d Scientists	Client ARM Project No. Project Description Site Location ARM Representative Checked by Drilling Company	: Enviro/ : 180716 : Sparro : Sparro : Sparro : L. Perri : M. Rep : GSI	Anal 6M ws I ws I ws I rin / plog	Nytics G Point - I Point, N L. Glun Ile, E.I.1	Group Parcel MD nac (S T.	A10 )	Piezometer Installation Date       : 07/11/2016         Piezometer Installation Date       : 09/16/2019 (S)         Casing/Riser/Screen Type       : PVC         Borehole Diameter       : 2.25"         Riser/Screen Diameter       : 1"         0 Hr DTW( (ft TOC)       : 9.1 / 14.33 (S)					11/2016 16/2019 (S) C 5"
BC	orin	g IL	/: ATU-UT:	age 1 of 1)	Driller Drilling Equipment	: D.Marc : Geopro	ches obe	se/K.Pu 7822D	imphre T	ey(S)	0-Hr 48-H No Ll	DTW (ft r DTW ( NAPL o	toc ft TO r DNA	:) C) APL deteo	9.1 : 9.1 : 9.1 cted at 0	/ 14.33 (S) / 14.11 (S) or 48 hours
Depth (ft.)	% Recovery	PID Reading (PPM)	Sample ID/Interval	DES	CRIPTION	nscs		A10-(	015-F	ΡΖ		A10	-015	(S)-PZ		REMARKS
-0	80	1.8 11.0 5.4	A10-015-SB-1	(0-2.6') SILT an brown to black, no cohesion	d SAND, loose, dark dry, no plasticity,	sw	,		··· E	Bento	nite se	al				N / E (US ft) 571116.39 / 1464272.67
-		0.0 0.0	A10-015-SB-5	black then tan/b low plasticity, c	prown at 4' bgs, dry, ohesive	CL			-5	Sand	Pack					571065.08 / 1464412.26 (S)
	100	5.6 0.2 0.0		(5-7.5') CLAY, r black, dry, med cohesive	nedium to hard, ium plasticity,	СН		×								
-		0.0 0.0		(7.5-10') SAND dense, yellowis no plasticity, no	, very fine, very h red and tan, moist, o cohesion	SP				I" PV	C Scre	en		-Bentor	ite seal / Riser	
- 10	100	0.0 0.0 0.0 0.0		(10-19.9') CLA pale brown and then gray (13.5 gray (15-19.9' b plasticity, cohes	7, soft to medium, gray (10-13.5' bgs) -15' bgs) then dark bgs), dry, medium sive											
15-		0.0 0.0 0.0				СН										
-	100	0.0														
20-		-		(19.9-28') SANI dense, pale bro bgs), wet, no pl	D, very fine, very wn with red (23-24' astity, no cohesion									-Sand F	Pack	Wet at 20' bgs
-	100	- -				SP								-1" PVC	Screen	
25-	0	- -														
-			I	End of Boring												L
30-																
Boring TOC: T DTW: D bgs: Be AMSL:	termin op of Oepth Iow g Abov	nated a PVC o to wat round e mear	at 28' bgs due to asing er surface n sea level	water and piezome	ter installation.	Rise Rise Scre San Ben	er St er: 0 een: nd Pa ntoni	tickup: ) - 3.5' k : 3.5 - 1 'ack: 2 - ite Seal	3.80' / bgs / 0 3.5' bç - 13.5' I: 0 - 2'	2.09' - 18' l gs / 18 bgs / ' bgs /	(S) bgs (S) 5 - 28' b 16 - 28' 0 - 16'	gs (S) [{ bgs (S) bgs (S)	Slot S [Gra [chip:	iize: 0.01 in Size: V s/granula	0"] VG #2] r]	

Bo	ARM Group LLC Engineers and Scientists Boring ID: A10-024-SB/PZ (page 1 of 1)			oup LLC d Scientists	Client ARM Project No. Project Description Site Location ARM Representative Checked by Drilling Company Driller	: Enviro : 18071 : Sparro : Sparro : L. Glu : W. Ma : GSI : Don M	oAn 16M ows ows ows ade ade	nalytics Group 4 s Point - Parcel A10 s Point, MD ac (P) / L. Perrin er P.G., CPSS chese	Piezo Piezo Casil Bore Rise	ometer Ir ometer Ir ng/Riser/ hole Diau r/Screen DTW (ft	nstallation Date nstallation Date /Screen Type meter Diameter TOC)	: 09/1 : 07/0 : PVC : 2.25 : 1" : Dry	3/2019 (P) 7/2016 ; "
		-	(p	age 1 of 1)	Drilling Equipment	: Geopr	rob	e 7822DT	48-H No L	r DTW (f NAPL or	t TOC) DNAPL detected	: 9.5 ( d at 0 o	(P) / 8.8 r 48 hours
Depth (ft.)	% Recovery	PID Reading (PPM)	Sample ID/Interval	DES	CRIPTION	USCS		A10-024(P)-PZ	-	A10-	-024-PZ		REMARKS
-0	70	- 2.6 1.3	A10-024-SB-1	(0-1.9') ORGAN brown, moist, n cohesive (1.9-2.5') SILTY GRAVEL, loose brown and gray	VIC SILT, soft, dark on plastic, non SAND with small b, brown to dark c dry, non plastic	OL SM	L M	Bento	onite se /C Rise	eal .			Small roots, some small wood fragments Large wood
-	-	1.3 0.3	A10-024-SB-5	(2.5-5') SILT, so plastic, non coh	oft, black, moist, non nesive		L				- Bentonite	seal	fragments throughout
5-		- 0.3		(5-7') WOOD fr loose, dark brov plastic, non coh	agments with CLAY, wn, very moist, non lesive	, CL 		Pack v 1" PVC /C Screen			liser		
-	90	0.1		(7-8') SANDY C yellowish browr high plasticity, d	CLAY, very soft, n, very moist to wet, cohesive	CL							
-	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				oft, yellowish h plasticity,								
-10		-		(10-15') SAND, dense, reddish plastic, non coh	fine to medium, yellow, wet, non lesive								Wet at 11' bgs
-	80	-				SM	v						
- 15-		-									-Sand Pao	creen	
-	-	-		gray, moist, low	y CLAY, soft, light plasticity, cohesive	CL	L						N / E (US ft) 571653.78 /
-	50	-											1464643.92 (P)
-		-		(18-20') SAND, yellow and pale plastic, non coh	fine, dense, reddish e brown, wet, non nesive	SF	5						1464636.91
20-				End of Boring									L
Boring TOC: T DTW: D bgs: Be AMSL:	termin op of Depth low g Abov	nated a PVC o to wat ground re mean	at 20' bgs due to casing er surface n sea level	water and piezome	ter installation.	Ris Ris Scr Sai Bei	ser : ser: ree ind ento	Stickup: 2.25' (P) / 2 0 - 3' bgs (P) / 0 - 1 n: 3 - 9' bgs (P) / 10 Pack: 2 - 9' bgs (P) / nite Seal: 0 - 3' bgs	2.90' 0' bgs - 20' bg / 8 - 20' (P) / 0 -	s [Slot S bgs [Gra 8' bgs [c	ize: 0.010"] in Size: WG #2] hips/granular]		



		4	ARM Gr Engineers an	OUP LLC d Scientists	Client ARM Project No. Project Description Site Location ARM Representative Checked by	: Enviro/ : 180716 : Sparro : Sparro : L. Glur : M. Rep	Analytics Group 6M ws Point - Parcel A10 ws Point, MD nac (P) / L. Perrin blogle, E.I.T.	Piezom Piezom Casing, Boreho Riser/S	neter Insta neter Insta /Riser/Sc le Diame acreen Di	allation Date allation Date creen Type eter ameter	: 09/1 : 07/0 : PVC : 2.25 : 1"	3/2019 (P) 8/2016 : "
В	orin	g ID	0: A10-027	7-SB/PZ age 1 of 1)	Drilling Company Driller Drilling Equipment	: GSI : Don M : Geopro	archese bbe 7822DT	0-Hr D 48-Hr D No LNA	TW (ft TC DTW (ft T APL or DI	DC) OC) NAPL detected	: Dry : Dry at 0 oi	(P) / 11.40 (P) / 11.26 - 48 hours
Depth (ft.)	% Recovery	PID Reading (PPM)	Sample ID/Interval	DES	CRIPTION	USCS	A10-027(P)-P2	z	A10-02	27-PZ		REMARKS
-00	60	- 2.1 97.0	A10-027-SB-1 A10-027-SB-4	(0-0.5') ORGAN brown, dry, non cohesive (0.5-4') SILT wi brown grading t non plastic, nor	NC SILT, soft, a plastic, non th trace SAND, soft, to dark brown, dry, a cohesive	ML	Bent	onite seal VC Riser				Abundant very small roots
5-		0.1		(4-5') CLAY, so moist, medium	ft, yellowish brown, plasticity, cohesive	CL		d Pack		Bentonite	seal	
- - - -	100	0.3 0.6 6.2 0.5		(5-6') SAND wit medium, mediu yellow, moist, n cohesive (6-10') CLAY, v brownish yellow yellow mottling, plasticity, cohes	th CLAY, fine to im dense, brownish ion plastic, non rery firm to firm, v with reddish , moist, high sive		-	VC Scree	n		ser	
10-	100	- - -		(10-15') CLAY v soft to very soft (10-14.8' bgs), (14.8-15' bgs), at 12.5' bgs, hig cohesive	with trace SAND, , brownish yellow then light gray moist, to very moist gh plasticity,	CL	-					
15-		-		(15 16 21) SANI	D fina loosa		_					Wet at 15'
		-		brown, wet, nor cohesive	n plastic, non	SP	-			-Sand Pac	k	bgs
	80	- - -		(16.2-16.9') SA light gray, wet, cohesive (16.9-20') SANI medium dense, reddish yellow,	NDY CLAY, soft, medium plasticity, D, fine to medium, yellowish red to wet, non plastic,	sw				— 1" PVC So	creen	N / E (US ft) 572283.09 / 1464917.23 (P) 572288.37 / 1464921.09
-	-	-		(20-22') Appare	nt heaving sand, no d, drillers advanced	_/						
- 25-			<u> </u>	L to 22' and set p End of Boring	iezometer	/				J		L
Boring TOC: T DTW: I bgs: Be AMSL:	termir op of Depth low g Abov	nated a PVC c to wat round e mear	at 22' bgs due to casing er surface n sea level	water and piezome	ter installation.	Rise Rise Scre San Ben	er Stickup: 1.97' (P) / er: 0 - 3' bgs (P) / 0 - een: 3 - 8' bgs (P) / 12 d Pack: 2 - 8' bgs (P) tonite Seal: 0-2' bgs (	3.80' 12' bgs 2 - 22' bgs [ / 10 - 22' b P) [chips] /	Slot Size gs [Grair 0-10' bg	:: 0.010"] ı Size: WG #2] s [chips/granula	ar]	





		A	Engineer	Group LLC rs and Scientists	Client ARM Project No. Project Description Site Location ARM Representative Checked by	: Enviro, : 180716 : Sparro : Sparro : T. Van : M. Rep	Analytics Group SM Piezometer Installation Date Piezometer Installation Date Piezometer Installation Date Casing/Riser/Screen Type Borehole Diameter Ness Riser/Screen Diameter	: : 09/25/2019 (P) : : 09/25/2019 (S) : PVC : 2.25" : 1"			
Во	orin	g ID	): A10-(	035-SB/PZ (page 1 of 1)	Drilling Company Driller Drilling Equipment	: GSI : Don M : Geopre	archese 0-Hr DTW (ft TOC) obe 7822DT 48-Hr DTW (ft TOC) No LNAPL or DNAPL detec	: Dry (P) / 14.37 (S) : Dry (P) / 14.36 (S) ted at 0 or 48 hours			
Depth (ft.)	% Recovery	PID Reading (PPM)	Sample ID/Interval	DESC	RIPTION	USCS	A10-035(P)-PZ A10-035(S)-PZ	REMARKS			
-0 	60	- 0.1 0.0	No Samples Collected	(0-3.8') CLAYEY SI light brown, dry, no cohesion	LT, hard, brown to plasticity, no	SM	Bentonite seal	N / E (US ft) 572139.03 / 1464952.83 (P) 572136.01 /			
5-		0.0		(3.8-5.1') SAND, de moist at 4.2' bgs, no cohesion	ense, tan, dry then o plasticity, no	SP	Sand Pack	1464951.49 (S)			
-	100	0.1 0.0 0.0 0.1		(5.1-6.3') CLAY, ha low plasticity, cohes (6.3-15') SANDY Cl grading to soft, gray 14.5' bgs, high plas	rd, light gray, dry, sive LAY, medium to soft <sub>y</sub> , dry then moist at ticity, cohesive		_ Benton	ıte seal Riser			
10-	-	0.1 0.1 0.1				sc					
-	100	0.1 0.1									
15-		0.1 0.1		(15-17.3') SANDY S	SILT, soft, gray,						
-	96	0.1 0.2		(17 3-24') SAND m	no cohesion	SM		Wet at 17.3' bgs			
-		0.1		to light brown, wet, cohesion	no plasticity, no		Sand P	ack Screen			
20-		-				SP					
-	0	-									
- 25-				End of Boring							
Boring TOC: T DTW: I bgs: Be AMSL:	termin op of Depth elow g Abov	nated a PVC c to wate round e mear	at 24' bgs du asing er surface n sea level	e to water and piezome	ter installation.	Riser Stickup: 2.48' (P) / 2.87' (S) Riser: 0 - 3' bgs (P) / 0 - 14' bgs (S) Screen: 3 - 13' bgs (P) / 14 - 24' bgs (S) [Slot Size: 0.010"] Sand Pack: 2 - 13' bgs (P) / 12 - 24' bgs (S) [Grain Size: WG #2] Bentonite Seal: 0 - 2' bgs (P) / 0 - 12' bgs (S) [Grain Size: 3/8" chips]					

		A	Engineer	Group LLC rs and Scientists	Client ARM Project No. Project Description Site Location ARM Representative Checked by	: Enviro/ : 180716 : Sparrov : Sparrov : L. Glun : M. Rep	Analytics M ws Point ws Point, nac logle, E.	Group - Parcel A10 , MD I.T.	Piezor Piezor Casing Boreh Riser/	neter In: neter In: g/Riser/S ole Dian Screen I	stallation D stallation D Screen Typ neter Diameter	ate : 09/1 ate : 09/1 e : PV0 : 2.25 : 1"	3/2019 (P) 3/2019 (S) C
Во	orin	g ID	): A10-(	036-SB/PZ (page 1 of 1)	Drilling Company Driller Drilling Equipment	: GSI : Don Ma : Geopro	archese bbe 7822	DT	0-Hr D 48-Hr No LN	DTW (ft 1 DTW (ft IAPL or	ГОС) ∶TOC) DNAPL def	: Dry : 12.8 rected at 0 o	(P) / 12.81 (S) 33 (P) / 12.47 (S) r 48 hours
Depth (ft.)	% Recovery	PID Reading (PPM)	Sample ID/Interval	DESC	RIPTION	USCS	A10	)-036(P)-P2	2	A10-(	036(S)-P2	2	REMARKS
-00	48	- 0.5 4.1 3.8	No Samples Collected	(0-1') SILT and SAN no plasticity, cohesi (1-6.7') GRAVEL ar brown and light gra no cohesion	ND, soft, brown, dry, ion nd SAND, loose, light y, dry, no plasticity,	GW		Bent	onite sea	al			N / E (US ft) 572107.59 / 1464661.93 (P) 572102.96 / 1464655.83 (S)
5	80	- 2.4 0.6 0.7 0.2 0.0		(6.7-7.2') SILT and dry, no plasticity, cc (7.2-11') SANDY CI light brown to pale I plasticity, cohesive	SAND, soft, brown, ohesion LAY, medium to soft, brown, moist, low	SC			/C Riser /C Scree -	en	Bent	onite seal /C Riser	
	100	0.0 0.0 0.0 0.0		(11-15.5') CLAY, ha and light brown, dry cohesive	ard, yellowish red /, high plasticity,	СН							
	78	0.0 0.0 0.0 0.0 0.0		(15.5-17.3') SANDY soft, light brown to low plasticity, cohes (17.3-24') SAND, ve reddish yellow, wet cohesion	CLAY, medium to pale brown, moist, sive ery fine, very dense, , no plasticity, no	SC	-					l Pack /C Screen	Wet at 17' bgs
-	0	- - -											
25-				End of Boring									
Boring TOC: T DTW: [ bgs: Be AMSL:	termin op of Oepth Iow g Abov	nated a PVC c to wate round e mear	at 24' bgs du asing er surface n sea level	ie to water and piezome	ter installation.	Riser Stickup: 2.12' bgs (P) / 3.04' (S) Riser: 0 - 3' bgs (P) / 0 - 14' bgs (S) Screen: 3 - 13' bgs (P) / 14 - 24' bgs (S) [Slot Size: 0.010"] Sand Pack: 2 - 13' bgs (P) / 12 - 24' bgs (S) [Grain Size: WG #2] Bentonite Seal: 0 - 2' bgs (P) / 0 - 12' bgs (S) [Grain Size: 3/8" chips]				os]			

Bo	orin	g ID	Engineer	Group LLC rs and Scientists	Client ARM Project No. Project Description Site Location ARM Representative Checked by Drilling Company Driller	: EnviroA : 180716 : Sparrov : Sparrov : L. Glum : M. Rep : GSI : Tim Nih	vnalytic iM ws Poir ws Poir nac logle, F	cs Gr nt - P nt, Mi E.I.T.	oup Parcel A10 D	Piezo Piezo Casin Bore Risen	ometer Ir ometer Ir ng/Riser, hole Dia r/Screen	nstallation D Installation D (Screen Typ meter Diameter TOC)	ate : 09// ate : 09// e : PV( : 2.23 : 1"	(P)/2019 (P) 19/2019 (S) C 5"
		0		(page 1 of 1)	Drilling Equipment	: Geopro	be 782	22DT		48-H No L	r DTW (1 NAPL or	t TOC) DNAPL def	: 11. tected at 0 c	I2 (P) / 12.34 (S) r 48 hours
Depth (ft.)	% Recovery	PID Reading (PPM)	Sample ID/Interval	DESC	RIPTION	nscs	A	10-0	37(P)-PZ	2	A10-	-037(S)-P2 ]	7	REMARKS
-00	40	- - - 0.0	No Samples Collected	(0-0.25') SILT, soft, no plasticity, no coh (0.25-6.25') SLAG, GRAVEL-sized, me then moist at 6' bgs cohesion	brownish gray, dry, nesion SAND and dium, black, dry, , no plasticity, no	GW			- Bento	onite se /C Rise	eal			N / E (US ft) 571671.56 / 1464951.36 (P) 571664.93 /
5-		0.0							Sand	l Pack				1464951.87 (S)
- - - - 10-	80	- 0.0 0.0 0.0 0.0 0.0		(6.25-7.4') SANDY black and dark gray plasticity, cohesive (7.4-7.7') SANDY C black and dark gray mottling, dry, low pl (7.7-12.3) SANDY ( medium, then soft t bgs), brown to tan, cohesive	CLAY, medium, y, moist, low CLAY, very soft, y with yellowish red asticity, cohesive CLAY, hard to o medium (11.2-12.3' moist, low plasticity,	CL	- - - -			/C Scre	een		onite seal /C Riser	
	100	0.0 0.0 0.0 0.0		(12.3-16') SANDY ( hard, reddish browr (15.5-16' bgs), mois cohesive	CLAY, medium to n, then gray st, low plasticity,	CL	_							
	90	0.0 0.0 0.0 0.0		(16-23') SAND, fine white (16-18.5' bgs to reddish yellow (1 reddish yellow and plasticity, no cohesi	, dense, pinkish ), then pinkish white 8.5-19' bgs), then brown, wet, no ion	SP							l Pack /C Screen	bgs
	0	- - -												
			<u> </u>	End of Boring		<b>I</b>	L							L
Boring TOC: T DTW: D bgs: Be AMSL:	I termin op of Depth slow g Abov	nated a PVC c to wate round e mear	t 23' bgs du asing er surface n sea level	e to water and piezome	ter installation.	Rise Rise Scre Sand Bent	r Stick r: 0 - 3 en: 3 - d Pack tonite {	up: 1 3' bgs - 13' t :: 2 - 7 Seal:	.60' (P) / 2 (P) / 0 - 1 ogs (P) / 1 13' bgs (P) 0 - 2' bgs	2.20' (S) 3' bgs (S 3 - 23' b ) / 11 - 2 (P) / 0 -	5) gs (S) [S '3' bgs (S 11' bgs (	ilot Size: 0.0 3) [Grain Siz (S) [chips/gr	010"] :e: WG #2] :anular]	



		<u> </u>	<b>RM</b> Engineer	Group LLC rs and Scientists	Client ARM Project No. Project Description Site Location ARM Representative Checked by	: Enviro : 18071 : Sparro : Sparro : T. Van : M. Reț	oAn 6M ows ows n Ne plo	nalytics G 1 s Point - I s Point, N less ogle, E.I.T	Frou Parc MD T.	cel A10	Piezo Piezo Casir Boreł Riser	ometer l ometer l ng/Rise nole Dia /Screer	Insta Insta r/Scr amet n Dia	llation Date Ilation Date een Type er meter	: 09/2 : 09/2 : PV0 : 2.25 : 1"	25/2019 (P) 25/2019 (S) C "
Bo	orin	g ID	): A10-(	0 <b>39-SB/PZ</b> (page 1 of 1)	Drilling Company Driller Drilling Equipment	: GSI : Don M : Geopr	/arc rob∉	chese e 7822D	т		0-Hr 48-Hi No Li	DTW (f r DTW ( NAPL o	t TO( (ft TC or DN	C) DC) APL detecte	: Dry : 11.1 ed at 0 o	(P) / 13.48 (S) l8 (P) / 13.45 (S) r 48 hours
Depth (ft.)	% Recovery	PID Reading (PPM)	Sample ID/Interval	DESC	RIPTION	USCS		A10-(	039	(P)-PZ		A10	0-039	9(S)-PZ		REMARKS
0-		-	No	(0-1') CONCRETE		NA		• • • •	•••	-Bento	onite se	al 🤅	•••			
-	82	0.2 0.1	Samples Collected	(1-2.9') SANDY CL/ light brown, dry, low cohesive	AY, hard, gray to v plasticity,	sc	;			-1" PV	C Rise	r				N / E (US ft) 571395.21 / 1464973.61 (P)
-		4.3 0.0		(2.9-4.5') CLAY, ha brown, dry, hight pla	rd, dry, reddish asticity, cohesive	СН	1			-Sand	Pack					571389.28 / 1464971.72 (S)
5-		-		(4.5-6') CLAYEY SI light brown, moist, r cohesion	LT, medium, gray to no plasticity, no	SM	1			Sanu	Fack	***	•••••	— Bentonit	e seal	
-	56	- 0.0		(6-7.5') SILTY CLA brown, moist, mediu	Y, soft, gray to light um plasticity,						PVC Screen	en	-1" PVC	Riser		
		0.0 0.0		(7.5-10.5') SANDY hard, yellowish red, cohesive	CLAY, hard to very dry, high plasticity,	sc	; .	<b>.</b>		-1" PV	C Scre	en 🔅				
-	76	- 0.0 0.0 0.0		(10.5-15') SANDY ( hard grading to very grading to reddish b from 11.8-12.2' bgs cohesive	CLAY, medium to y hard, brown prown, dry but moist , high plasticity,	sc	;					<b>•</b>				
15		-		(15-17.5') SANDY ( soft, light brown to g plasticity, cohesive	CLAY, medium to gray, moist, low	sc	>									
-	84	-		(17.5-24') SAND, fir light brown (17.5-18 brownish red (18-18 light brown (18.7-20	ne, dense, gray to 3' bgs), then 3.7' bgs), then tan to )' bgs), wet, no									—Sand Pa —1" PVC ∺	ack Screen	Wet at 17.5' bgs
20-		-		plasticity, no cohesi	ion		,									
-	0	-														
-		-														
25-				End of Boring												L
Boring	l termir	nated a	it 24' bgs du	le to water and piezome	ter installation.	Rise	er (	Stickup:	2.15	5' (P) / 3.	.02' (S) 1' bas (S					
DTW: D bgs: Be AMSL:	Depth low g Abov	to wate round e mear	er surface sea level			Scr Sar Ber	reer nd I ntoi	n: 3 - 13' Pack: 2 - nite Seal	' bgs - 13' I: 0 -	, (P) / 14 bgs (P) 2' bgs (	/ 12 - 24 / 12 - 24 P) / 0 -	-, gs (S) [ 4' bgs ( 12' bgs	Slot \$ S) [C (S) [	Size: 0.010" Grain Size: V granular]	] VG #2]	

![](_page_35_Figure_0.jpeg)

![](_page_36_Figure_0.jpeg)

Attachment 2

	E.GLIUS D. Fiad an f. fab an	ent We	nene Ng			e antolioso	na 1 mmm	ers and t cursult	(in)
Emact Lame	A10 (10)	(-)-(			Project 1 umb	ver 18071	6M		
Well humber	A10 0021	01-02	and the second second	enter transpo	Date: 10-10	-19			
Well Firm stor	110-0021	1)-12			One Well Vo	lume (gal):			
Well Laameter	(m).		the states		OED Control	ler Setting	) <sup>1</sup>		
Depth to Prod				Carle Color	Flow Pare (m	L/rom.			
Depth to Wate	r (n): 11, 43		and the second second		Length of tim	e Purged (	min)		
Product Thick	necs (ft)				Conginor of	Paril Over		1	2 - 200 - 22 - 2 - 2
Depth to Botte	om (ft): 14,94			EL DC	CONDITION OF	2 80 00 10			
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ±01	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFF (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1322		14/10	22.24	7.13	0.513	0.33	27.9		
		l							
0		Time	Collected	Paran	neter/Order	Perservative	Collected		
Sam	pie ID	1 thus	Concorod	TC	LVOCC	3 - 40 n	AOV Ja	HCl	
				יין קיד	HCRO	3-40 n	NOA	HCI	
				TP	H-DRO	2-11	Amber	none	
					SVOCs	2-11	Amber	none	
		09	40	Oil	& Grease	2-1L	Amber	HCl	
A10-002	(P)-PZ.			TAT	-Metals &		r 751	IDIOS	
		lyab	sample	Men	(total)	1 - 250 r	nL Plastic	MINU3	
		collec	ted	Hexaval	ent Chromium (total)	1 - 250 r	nL Plastic	none	
		10-1	1-19)	Tot	al Cyanide	1 - 250 1	nL Plastic	NæOH	
			•	TAI Mercur Fiel	L-Metals & y (Dissolved) d Filtered	1 - 250 1	mL Plastic	HNO3	
				Hexaval (D Fiel	lent <b>Chromium</b> vissolved) Id Filtered	1 - 250 )	mL Plastic	none	
					PCB	2-11	Amber	None	-
				Matrix Sp	ike				
			1977 - Friday - Carl 1979	Duplica	te				
Sample	ed By: TCV		Comme	nts: Pure	jed dry G	9 1324			
	Casing	Volume: 1'	° [.D. = 0.041	gal/ft - 2" I.	$D_{\rm r} = 0.163 \text{ gal/ft} - 4$	** I.D. = 0.65	3 gal/ft - 5" [.	D. = 1.47 gal/ft	
					gant =				

	Perman	enî We	118		See State	a mile He of	ness Finder	ers and trans	di noo		
unter en entre et die		and the second second second			Project 1 Inves	how IF A	211				
Project Hame	AID CVOC	10 07			Froject I um		7161				
Well Flumber	A10-002	S) PZ			Date N/15	11]					
Well Liameter	(10)		and the second secon		OFF Control	Her Cetting					
Depth to Produ	uct $(n)$ _		and the second s		EL CONDO	MEL SULLING					
Depth to Wate	r(fl) 17.69	<u> </u>			Flow Mate II	nu/mm,	30				
Product Thick	ness (ft) ~				Length of th	me Purgeo	(form)				
Depth to Botto	$m(\hat{n}): 27.8$	19	in the second		Condition C.	r Pack Jovei					
				PARG	INC. REA ORI		1 1				
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFF (mV) ± 10	Turbidity (HTU) ± 10% or < 5	Comment		
1122	0	17.64	20.4	5.69	0.978	8.13	20,9		-urb, al		
1120	0.3	17.69	20.2	5.59	0.965	5.56	15,6				
112.7	0.6	13.34	20.3	5.48	0,975	4.65	16.2				
110	0.9	12 29	19.4	5.44	0 969	4,23	15.5		clear		
11.54	115	12.84	196	6 37	0 991	3.98	16.2				
1170	1.0	177.01	192	5.38	10,968	3.90	16.1				
	1				<u> </u>						
	1								Í		
									<u>}</u>		
					Project   Jumber:       /SO / Lorn         Date:       O/15/19         One Well Volume (gal):       OED Controller Settings         Flow Eate (mL/min)       330         Length of time Purged (min)       Conductine         Conductine       Oxygen (miv)       (miv)         Specific       Dissolved Oxygen (miv)       OEP (miv)       Turbidity (miv)         (mg/L)       ± 10       ± 10% or < 5						
		1							Í		
			MO	INITORIN	G SAMPLE F	(FCORD			1 0.11		
Sam	ple D	Time	Collected	Param	eter/Order	Con	tamer	Perservative Collect HCl HCl			
				TCL-VOC: 3-40 mL VOA HCI							
10-60-10	5)-PZ	1152	-	TP	H-GRO	3-40 0	nL VOA	HCI			
MO OCA				TP	H-DRO	2-11	Amber	none			
				TCI	-SVOCs	2-11	Amber	none			
				Oil	& Grease	2-1L	Amber	HCI			
				Merc	-Metals & ury (total)	1 - 250 r	nL Plastic	HNO3			
				Hexaval	ent Chromium (total)	1 - 250 r	nL Plastic	none			
				Tota	l Cyanide	1 - 250 7	nL Plastic	NaOH			
				TAL Mercur Field	-Metals & y (Dissolved) 1 Filtered	1 - 2.50 1	nL Plastic	HNO3			
				Hexaval (D) Field	ent Chromiun issolved) il Filtered	1 - 250 1	nL Plastic	none			
					PCB	2-11	Amber	None			
			Matrix Spi	ke		and the second se					
			Duplicat	5	e areas de la seconda	And the second		l			
Correcto	d By:	7	Comm	ents:							
Paubie	-										
Saubie	Cooling	Volumes 19	$\frac{1}{10} = 0.041$	<b>Γ</b> []/β <sup>+</sup> - 2 <sup>™</sup> Ι Π	h = 0.163  gal/fr - 4	" L.D. = 0.65	3 gal/ft - 6" I.I	D. = 1.47 gal/ft			

	И	Belensure Tanaa kumaa	isanengo má We	le Ile		Larth II source I neuroses and Consult ous							
-			/			Project Mumb	EXAMPLE A Series of the serie						
-	Pojeci Hame	Ato Croc	GW	KURANASE (CILS	Fiste La Ja	10							
	Well Flumber	910-015(P)	102	tering to managed a set		One Well 10	hime (gal)	areas and the statements					
-	Well Diameter (	117):				OFT Control	ler Cetting		and the second				
	Depth to Produc	ok (fil)				EL CONGO	ICI COULIE	ATTACK STORE AND A DECISION					
	Depth to Water	(出): 12,14				Plow Plate In	Durand (	rec ist l					
	Product Thickne	ess (ft):			COLUMN STATE	Length of th	le Purgeo	109M)	1				
le.	Depth to Botton	n (12): 15176		A THE OWNER ADDRESS OF	-	Condition of	Pady Jover		/				
	Tune	Volume Purged	DTW (feet)	Temp (°C)	pURG pH (s.u.)	Specific Conductance (ms/cm)	Dissolved Oxygen (mg/L)	ORP (mV) ± 10	Turbidity (1.17U) ± 10% or < 5	Comments			
		(galions)			TOI	± 3%	±03	-134					
-	1014		dry_	21,00	7.14	0.568	0,21	-1.3, 0					
-													
-													
		-											
					NETADEN	C SAMPLE R	ECORD						
	Course	La ID	Time	Collected	Param	neter/Order	Con	tainer	Perservative	Collected			
	Samp	te ID	THIC	Concoros	TC	L-VOCs	3-40 r	nL VOA	HCI				
					TP	H-GRO	3-40 r	nL VOA	HCI				
5					ТР	H-DRO	2-11	Amber	none				
					TCI	-SVOCs	2-1 L	Amber	none				
			1.1.1.1	<u> </u>	Oil	& Grease	2-1 L	Amber	HC1				
	A10-015 (f	p)~PZ	114:	sample	TAL Merc	-Metals & cury (total)	1 - 250 1	nL Plastic	HNO3				
			19mb	rted	Hezaval	ent Chromium (total)	1 - 250 1	mL Plastic	none				
			USIR		Tota	al Cyanide	i - 250 i	mL Plastic	NaOH				
			10-1	-  7)	TAL Mercur Fiel	Metals & y (Dissolved) d Filtered	1 - 250	mL Plastic	HINO3				
					Hexaval (D Fiel	ent Chromiun issolved) d Filtered	1 - 250	mL Plastic	none				
						PCB	2-11	L Amber	None				
					Matrix Sp	ike							
				1 	Duplicat	ie .							
	Sampled	By: TCV		Comment from t	nis: Purg	red dry @ lected give	1014, re in the	adings . E flow t	rere collect through cel	ed 1			
		Casing	Volume: 1*	° I.D. = 0.041	gal/ft - 2" I.I ft x	D. = 0.163 gal/ft - 4 gal/ft =	e" <b>I.D.</b> = 0.65 (gal)	53 gal/ft - 6" I.	D. = 1.47 gal/ft				
		A DESCRIPTION OF THE OWNER	Contraction of the local division of	and the second second	interio.	the second s			2 914 IC				

		Endas F. Badas	chî Wel	ienes Ng		Carlos and	hatch (Leon	pins 1 m/m	the and a count	and:
		A 10 6 100 6	<u> </u>			Project Humi	Der 1807	16.00		
	Project Liame	THO LVOL	6-	MARKE MODANIN	Manager and Party	Date: 10-10	- 19			
	Well l'umber	1410-015(5)	- 12			One Well Vo	lume (gal)			
	Well Lnameter	(117)		والمتحدث والمستوا	North States	OED Control	Her Setting	51		a construction of the second sec
	Depth to Produ	act (it):		and the second	Carlos and a second	Eleve Rate (m	at Iron	States and states	a de la construcción de la del de la construcción de la del de la construcción de la del de la del de la del de	
	Depth to Wate	r (R) 14,49				Libw Matching	ne Purger (	minl	Perservative          HCl         HCl         HCl         HCl         HCl         ic         None         ic         None         None	
	Product Thick	necs (ft)		-		Candinor of	Padeover		1	
	Depth to Botto	om (ft): 28.6	5		001002	NC DECORT	1.600.004.00			
	Time	Volume Purged	DTW	Temp	Project Humber:       ISO2/6 M         Date:       10 -10 - 19         Ome Well Volume (gal):       QED Controller Settings:         Flow Rate (mL/min)       Length of time Purged (min)         Conductance       Oxygen (mV)         (s.u.)       Conductance         (s.u.)       Conductance         (s.u.)       (ms/cm)         ± 0.1       ± 3%         ± 3%       ± 0.3         ± 0.1       ± 3%         ± 0.3       ± 10         ± 0.4       0.673         0.66%       0.632         0.673       0.441         3.3       6.36         6.36       0.673         0.673       0.441         3.3       10         10       10         10       10         11       10         11       10         11       10         11       10.37         12.37       10         13.3       10         14       0.673         15       10         16       0.37         16       10.3         1704       10         1704 <t< td=""><td>Turbidity (NTU)</td><td>Comments</td></t<>	Turbidity (NTU)	Comments			
		(gallons)	(Teel)	(0)	± 0_1	± 3%	Interference of the second state of the se	± 10% 0% < 5		
	10211		14.44	16.67	6.65	0,55%	0,41	26.7		
	1029		1444	15,99	646	0.630	0.49	32.9		
	1027		14 44	15,90	6.43	0.673	0.44	33.3	}	
	1031		14 44	15.42	6.3%	0.698	0.37	354		
	1039		19,40	131 24	0150					
								1		
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				1		_	1	1	<u>i</u>	
		-		MO	NEORIN	IG SAMPLE I	(FCORD	and the second second	P	
	Sam	nie ID	Time	Collected	Paran	neter/Order	Con	tainer	Perservative	Collected
					TC	L-VOCs	3 - 40 3	nL VOA	HC]	
			1		TP	H-GRO	3 - 40 1	nL VOA	HCl	
				×.	TP	PH-DR.O	2-11	. Amber	none	
			1		TCI	L-SVOCs	2-1L	. Amber	none	
			1		Oil	& Grease	2-1 L	. Amber	HCI	
	A10-015	(S)-PZ	104	14	TAL Mere	-Metals & cury (total)	1 - 250	mL Plastic	HNO3	
					Hexaval	ent Chromiun (total)	1 - 250 :	mL Plastic	none	
					Tou	al Cyanide	1 - 250	ml Plastic	Naon	
					TAL Mercur Fiel	L-Metals & y (Dissclved) d Filtered	1 - 250	mL Plastic	HNO3	
7					Hexaval (D Fiel	lent Chronuun issolved) Id Filtered	1 Humber: $1307/6 \text{ M}$ 10 -10 - 19         /ell Volume (gal):         Controller Settings:         Rate (mL/mm)         h of time Purged (min)         iuton of Paci/Cover       /         CORD         iffic       Dissolved         Oxygen       (min/)         (mg/L)       ± 10         ± 0.3       ± 10         %       ± 0.3         28       0.441         23       0.441         33.3         78       0.37         35.1         Interpret Container         Perservati         s       3 - 40 mL VOA         HCI         2 - 1 L Amber         Se       2 - 1 L Amber         Se       2 - 1 L Amber         I - 250 mL Plastic       NaOH         s &       1 - 250 mL Plastic         Gal/R - 4" LD. = 0.653 gal/R - 6" LD. = 1.47 gal/	none		
						DACIES	1 7 1	[ Amhair	/         /         Turbidity ()TU)         ± 10% ox < 5	
					Maturia Cla	TUD	1 2 1		II LIGIUS	-
					Marix Sp	NEC .				1
					Duplica	ic.				diameter and a second
	Sample	ed By: TCV	/	Comme	ents:					
	C	Casins	Volume: 1º	8 1.D. = 0.041	gal/ft - 2" I.I ft x	D. = 0.163 gal/ft - gal/ft =	4" I.D. = 0.65 (gal)	53 gal/ft - 5" I	.D. = 1.47 gal/ft	
	La grander and	Construction of the owner of the		The section of the						

	Lana Lana	ent We	IIS IS		No. AN	i antidi can	une Emerny	ers and Concolt.					
and the second second					Project   hpp]	per 1407	16 M						
Project Hame	Alo CVOC	6.w		and the second second	Enste: 10-10	-Id							
Well Humber	A10-024(1	)-12			One Well Vo	lume (gal):							
Well Diameter	(in):	3-01-0 <del>1-110-0</del>		- Charles in the	OFD Contro	ller Settings		1000 CO. 1000 CO. 1000 CO. 1000	and an and the second second				
Depth to Produ	ici (ii)				Flow Rate (n	al /min	and the second	VI. 100 000 00 00 00 00 00 00 00 00 00 00 0					
Depth to Water	r (R): 9,99			Gattary server	Length of tir	ae Purged (	minl						
Product Thicks	ness (ft):				Condition of	Paril Over		1					
Depth to Botto	m (n) 10,14		Section and the	01107	INC RECORD	)							
Time	Volume Purgeo (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORF (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments				
		<u> </u>											
			MI	INTEORIN	G SAMPLE I	(ECORD	ontainer Perservative Colle						
	1 112	Time	Collected	Parar	neter/Order	Con	tainer	Perservative Co HCl					
Sam	ple ID	Ime	Conected	TC	L.VOCe	3 - 40 0	nL VOA	er Perservative Col VOA HCl					
				TE	DH-CRO	3 - 40 m	nL VOA	HC1					
		1		TE	PH-DRO	2-1I	Amber	none					
				TC	L-SVOCs	2-1 L	Amber	none					
				Oil	& Grease	2-1 L	Amber	HCI					
				TAI Mer	L-Metals & cury (total)	1 - 250 r	nL Plastic	HIVO3					
				Hezava	lent Chromiun (total)	1 - 250 1	mL Plastic	none					
				Tot	al Cyanide	1 - 250 1	nil missiic	1108/1					
				TAI Mercu Fie	L-Metals 32 ry (Dissolved) Id Filtered	1 - 250 1	mL Plastic	HNO3					
				Hexava (I Fie	lent Chromiur Dissolved) Id Filtered	n 1 - 250	mL Plastic	none					
					PCB	2-11	L Amber	None					
			(	Matrix Sp	pike		and the second second second second						
			Duplica	ite		a la companya da companya da	Contractory of the local data						
Sample	ed By: TCV		Comm	ents: Not	enough g	in to sely	fill one	VOA	and the second second second				
	Cosine Volum			1 gal/ft - 2" I.	D. = 0.163 gal/ft -	4" 1.D. = 0.65	53 gal/ft - 6" I.	.D. = 1.47 gal/ft					
	Custile		and the second second	ft x	gal/ft =	(gal)							

Project Name:         Ary C/V2/C/G/W         Project Number:         1/3/07/16/44           Well Number:         Aryon - 22/1 (5) - P2.         Date:         10-11-14	]	Low Flow Perman	Samp ent We	ling lls			ARN Earth Reso	M G1 nurce Engin	roup In neers and Consu	IC. Itants
Well Number:         Ap-o24 (S) - PZ         Date:         Dot:         Dotate:         Dotate: <thdotate:< th="">         Dotate:         Dotate:</thdotate:<>	Project Name:	AID CNOC	Gw			Project Num	1807 iber: 1807	16M		
Well Diameter (in):       One Well Volume (gsl):         Depth to Product (ft):       QED Controller Settings:         Domb to Water (ft):       0.10         Product Thickness (ft):       Length of time Purged (min)         Doph to Water (ft): (2, 10)       PURGING RECORD         Time       Volume (galom)       DTW (fted)       Tamp (*C)       # 0.         13224       DTW (fted)       Tamp (*C)       0.532       0.753       0.744         13335       13.647       17.32       5.47       0.5444       1.47       94.4         13334       13.241       17.23       6.20       0.532       0.724       24.5       Comments         13334       13.41       17.04       6.20       0.532       0.74       24.7       -         13335       13.647       17.37       C.16       0.532       0.74       24.7       -         13335       13.41       17.04       6.20       0.532       0.74       24.7       -         1334       13.41       17.04       6.20       0.532       0.74       24.7       -         1334       13.41       17.04       6.20       0.532       0.74       24.7       -         14.00	Well Number:	A10-024 (5)	-PZ			Date: 10-1	1-19			
Depth to Product (ft):         QED Controller Settings:           Depth to Water (ft): (0, 10         Flow Rate (mL/min)           Product Thickness (ft):         Length of time Purged (min)           Depth to Bottom (ft): 22, HD         Condition of PadCover:         /           Time         Purged (gallows)         DTW         Tamp (feet)         PURCING RECORD         ORP (matching)         Turbidity (mV)         Comments           1322-6         [12.1]         17.32         5.47         0.534         1.7.7         H(.1           1333         13.64         17.37         6.16         0.532         0.76         24.7            1334         (3.41         17.04         6.20         0.532         0.74         24.7            1335         13.64         17.37         6.16         0.532         0.74         24.7            1334         (3.41         17.04         6.20         0.532         0.74         24.7            1343         (3.41         17.04         6.20         0.532         0.40         VOA           1343         13         13         13         14         14         14         14           17         1	Well Diameter	(in):				One Well V	olume (gal):			
Depth to Water (ft): 10. 10         Flow Rate (mL/min)           Product Thickness (ft):         Length of time Parged (min)           Depth to Bottom (ft): 22.140         PURGING RECORD           Time         Parged (min)           Purged (gallons)         DTW (fted)           (gallons)         DTW (fted)           1322-5         12.1(           1333         13.64           13343         13.22           13343         13.24           13343         13.24           13.34         13.24           13.34         13.24           13.34         13.24           13.41         17.04           Gallons         Gallons           Depth to Bottom (ft): 22.40         0.532           De.7532         De.754           26.14         17.24           13.34         13.41           13.41         17.04           13.42         12.41           13.43         13.41           13.44         13.44           13.45         13.44           13.45         13.44           13.45         13.44           13.40         14.04           14.00         14.04	Depth to Produ	ct (ft):				QED Contro	oller Setting	S:		
Product Thickness (ft):         Length of time Purged (min)           Depth to Bottom (ft): 2.2.40         Condition of PadCover:         /           Time         Purged (min)         Condition of PadCover:         /           Time         Purged (min)         Temp         PII         Specific Discoved (might) = 1.000 (might) = 1.0000 (might) = 1.000 (might) = 1.000 (might) = 1.000 (might) = 1.0	Depth to Water	(ft); 10, 10				Flow Rate (1	mL/min)			
Depth to Bottom (ft): 2.2, 4/2         Condition of Pad/Cover:         /           Time         Volume (gallons)         DTW (feet)         Temp (a)         BH (a)         Condition of Pad/Cover:         /           132-5         132-6         12./1         17.76         Specific (ms/m)         Disolved (ms/m)         OR (ms/m)         Tubidity (NTU)         Comments           132-5         13.2-7         12.73         G.16         0.532         0.74         24.7         Comments           133-5         13.2-7         17.2-3         G.20         0.532         0.74         24.7         Comments           133-5         13.40         17.7-9         G.20         0.532         0.74         24.7         Comments           133-5         13.41         17.0-9         G.20         0.532         0.74         24.7         Comments           133-6         13.41         17.0-9         G.20         0.532         0.74         24.7         Comments           13-10         13.41         17.0-9         G.20         0.532         0.74         24.7         Comments           13-10         13.41         17.0-9         G.20         0.532         0.41         Perererenative         Collected?	Product Thickn	ess (ft):				Length of tin	me Purged (	min)		
Time         Volume Parged (galos)         DTW (Feet)         Tamp (Feet)         PH (Solution) (Topological (galos)         Specific (ms/m) ± 0.1         Dissolved (ms/m) ± 0.3         ORP ± 10         Tarbidity (MVU) ± 10% or <5         Comments           132-4         12./1         17.7% L         5.747         0.7541         1.477         447.7         -	Depth to Botton	m (ft): 22.40	AND DEPOSIT			Condition o	f Pad/Cover		1	
Time         Volume (galloss)         DTW (bet)         Temp (s.)         pH (s.)         Specific (mix)         Dissolved (my)         ORP (mV)         Tuppidity (NV)         Comments           132-5         12./1         17.%2         5.947         0.7541         1.47         49.0         4.03 <t< td=""><td>Boptil to Botter</td><td></td><td></td><td></td><td>PURGI</td><td>NG RECORI</td><td>D</td><td></td><td></td><td></td></t<>	Boptil to Botter				PURGI	NG RECORI	D			
132-β         12.11         17.42         5.47         0534         0.47         44.4           1333         13.64         17.37         6.16         0.532         0.76         24.4         1           1334         13.24         6.20         0.532         0.76         24.4         1           1343         13.41         17.09         6.20         0.532         0.76         24.4           1343         13.41         17.09         6.20         0.532         0.76         24.7           1343         13.41         17.09         6.20         0.532         0.74         24.7           1343         13.41         17.09         6.20         0.532         0.74         24.7           1343         13.41         17.09         6.20         0.532         0.74         24.7           13         14         17.09         6.20         0.532         0.74         24.7           14         17.09         1.20         1.20         1.20         1.20         1.20           15         17         17         17         17         17         17         17           17         10         12.20         1.1	Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1333       13.00       17.37       C.16       0.532       0.76       24.4         1336       13.22       17.37       G.20       0.532       0.76       24.4         1343       13.41       17.39       G.20       0.532       0.76       24.4         1343       13.41       17.39       G.20       0.532       0.74       24.7         1343       17.39       G.20       0.532       0.74       24.7       1.25         14       17.39       G.20       1.20       1.20       1.20       1.20       1.20         15       Time Collected       Parameter/Order       Container       Perservative       Collected?         1714/080       3 -40 mL VOA       HCl       HCl       TCL-VOCS       3 -40 mL VOA       HCl         1714/070 <td< td=""><td>1324</td><td></td><td>12.11</td><td>17:92</td><td>5,97</td><td>0,544</td><td>1.47</td><td>44,1</td><td></td><td></td></td<>	1324		12.11	17:92	5,97	0,544	1.47	44,1		
1335       13.22       12.23       6.20       0.532       0.76       26.4         1343       13.41       17.09       6.20       0.532       0.44       24.7         1343       13.41       17.09       6.20       0.532       0.44       24.7         1343       13.41       17.09       6.20       0.532       0.44       24.7         1343       13.41       17.09       6.20       0.532       0.44       24.7         1343       13.41       13.41       12.04       1.24       1.24       1.24         1343       13.41       1.20       1.24       1.24       1.24       1.24         14       14       1.20       1.24       1.24       1.24       1.24       1.24         1343       13.44       1.250       1.250       1.24       1.250       1.250       1.24       1.250       <	1333		13.07	17.37	6.16	0.532	0,90	24.8		
1343       13.41       17.09       6.20       0.532       0.49       24.7         1       1       1       1       1       1       1         1       1       1       1       1       1       1         1       1       1       1       1       1       1         1       1       1       1       1       1       1         1       1       1       1       1       1       1         1       1       1       1       1       1       1         1       1       1       1       1       1       1       1         1 </td <td>1338</td> <td></td> <td>13.22</td> <td>17.23</td> <td>6.20</td> <td>0,532</td> <td>0.78</td> <td>26.4</td> <td></td> <td></td>	1338		13.22	17.23	6.20	0,532	0.78	26.4		
MONITORING SAMPLE RECORD           Sample ID         Time Collected         Parameter/Order         Container         Perservative         Collected?           MONITORING SAMPLE RECORD         TCL-VOCs         3 - 40 mL VOA         HCl         Image: Collected?         TCL-VOCs         3 - 40 mL VOA         HCl           MONITORING SAMPLE RECORD         TCL-VOCs         3 - 40 mL VOA         HCl         Image: Collected?         TCL-VOCs         3 - 40 mL VOA         HCl           TPH-GRO         3 - 40 mL VOA         HCl         Image: Collected?         TCL-VOCs         2 - 1 L Amber         none         Image: Collected?         Image: Collected? <td>1343</td> <td></td> <td>13.41</td> <td>17.09</td> <td>6,20</td> <td>0.532</td> <td>0,49</td> <td>24.7</td> <td></td> <td></td>	1343		13.41	17.09	6,20	0.532	0,49	24.7		
MONITORING SAMPLE RECORD           Sample ID         Time Collected         Parameter/Order         Container         Perservative         Collected?           MONITORING SAMPLE RECORD         TCL-VOCs         3 - 40 mL VOA         HCl         Image: Container         Perservative         Collected?           MONITORING SAMPLE RECORD         TCL-VOCs         3 - 40 mL VOA         HCl         Image: Container         Perservative         Collected?           Alpo - 024 (s) - 19         I 3 44         TCL-SVOCs         3 - 40 mL VOA         HCl         Image: Container         Perservative         Collected?           Alpo - 024 (s) - 19         I 3 44         TCL-SVOCs         2 - 1 L Amber         none         Image: Container         Perservative         Collected?           Alpo - 024 (s) - 19         I 3 44         Image: Container         Perservative         Collected?         Image: Container         Perservative         Collected?           Alpo - 024 (s) - 19         I 3 444         Image: Container         Image: Container         Perservative         Collected?         Image: Container         Perservative         Collected?         Image: Container         Perservative         Collected?         Image: Container         Image: Container         Image: Container         Image: Container         Image: Container										
MONITORING SAMPLE RECORD           Sample ID         Time Collected         Parameter/Order         Container         Perservative         Collected?           MONITORING SAMPLE RECORD         TCL-VOCs         3 - 40 mL VOA         HCI         HCI           TPH-GRO         3 - 40 mL VOA         HCI         TCL-VOCs         2 - 11 L Amber         none           TCL-SVOCs         2 - 1 L Amber         none         TCL-SVOCs         2 - 1 L Amber         none           TAL-Metals &         1 - 250 mL Plastic         none         HNO3         Hexavalent Chromium         1 - 250 mL Plastic         NaOH           Total Cyanide         1 - 250 mL Plastic         NaOH         HNO3         Hexavalent Chromium         1 - 250 mL Plastic         NaOH           Total Cyanide         1 - 250 mL Plastic         NaOH         HNO3         Hexavalent Chromium         1 - 250 mL Plastic         NaOH           TAL-Metals &         Mercury (Dissolved)         1 - 250 mL Plastic         NaOH         HNO3         Hexavalent Chromium           Total Cyanide         1 - 250 mL Plastic         NaOH         HNO3         Hexavalent Chromium         1 - 250 mL Plastic         NaOH           Total Cyanide         1 - 250 mL Plastic         None         Matrix Spike         Duplicate         Dup										
MONITORING SAMPLE RECORD         Sample ID       Time Collected       Parameter/Order       Container       Perservative       Collected?         MONITORING SAMPLE RECORD       TCL-VOCs       3 - 40 mL VOA       HCl       Image: Collected?         Alio - 024 (s) - 19       I 3 4%       TCL-VOCs       3 - 40 mL VOA       HCl         TPH-GRO       3 - 40 mL VOA       HCl       Image: Collected?       TCL-VOCs       2 - 1L Amber       none         Oil & Grease       2 - 1 L Amber       none       Image: Collected?       TAL-Metals &       1 - 250 mL Plastic       HNO3         Hexavalent Chromium (total)       1 - 250 mL Plastic       In NO3       Image: Collected?       Image: Collected?         Field Filtered       1 - 250 mL Plastic       Image: Collected?       Image: Collected?       Image: Collected?         Mercury (total)       1 - 250 mL Plastic       Image: Collected?       Image: Collected?       Image: Collected?         Mercury (total)       1 - 250 mL Plastic       Image: Collected?       Image: Collected?       Image: Collected?         Total Cyanide       1 - 250 mL Plastic       Image: Collected?       Image: Collected?       Image: Collected?         Total Cyanide       1 - 250 mL Plastic       Image: Collected?       Image: Collected?       Image: Colle										
MONITORING SAMPLE RECORD         Sample ID       Time Collected       Parameter/Order       Containcr       Perservative       Collected?         TIME Collected       Parameter/Order       Containcr       Perservative       Collected?         Alto - 024(5)-19       I344       ICL-VOCs       3 - 40 mL VOA       HCl         TPH-GRO       2 - 1 L Amber       none			-			_	_			
MONITORING SAMPLE RECORD         Sample ID       Time Collected       Parameter/Order       Container       Perservative       Collected?         TCL-VOCs       3 - 40 mL VOA       HCl       HCl       HCl       HCl       HCl         TPH-GRO       3 - 40 mL VOA       HCl       HCl       HCl       HCl       HCl         TPH-GRO       3 - 40 mL VOA       HCl										
MONITORING SAMPLE RECORD         Sample ID       Time Collected       Parameter/Order       Container       Perservative       Collected?         Sample ID       Time Collected       Parameter/Order       Container       Perservative       Collected?         Alco - 024(5)-19       1346       TCL-VOCs       3 - 40 mL VOA       HCI										
MONITORING SAMPLE RECORD         Sample ID       Time Collected       Parameter/Order       Container       Perservative       Collected?         Also - 024 (5) - 19       13 44       TCL-VOCs       3 - 40 mL VOA       HCl       1         Also - 024 (5) - 19       13 44       TAL-Metals &       1 - 250 mL Plastic       none       01 & Grease       2 - 1 L Amber       none         TAL-Metals &       1 - 250 mL Plastic       HNO3       Hexavalent Chromium       1 - 250 mL Plastic       NaOH         TAL-Metals &       Mercury (total)       1 - 250 mL Plastic       NaOH       MO3         Hexavalent Chromium (total)       1 - 250 mL Plastic       NaOH       MO3         Field Filtered       1 - 250 mL Plastic       NaOH       MO3         Field Filtered       1 - 250 mL Plastic       none       MO3         Field Filtered       1 - 250 mL Plastic       none       Matrix Spike         Duplicate       Duplicate       Matrix Spike       Mone			-							
MONITORING SAMPLE RECORD         Sample ID       Time Collected       Parameter/Order       Container       Perservative       Collected?         TCL-VOCs       3 - 40 mL VOA       HCl       HCl       HCl       HCl       HCl         TPH-GRO       2 - 1 L Amber       none       none       HCl       HCl       HCl         TPH-DRO       2 - 1 L Amber       none       I       250 mL Plastic       HNO3         Mercury (total)       1 - 250 mL Plastic       none       I       1 - 250 mL Plastic       NOCH         Hexavalent Chromium (total)       1 - 250 mL Plastic       NaOH       I       I       Sample Filed Filtered         Hexavalent Chromium (total)       1 - 250 mL Plastic       NaOH       I       I       I       Sample Filed Filtered         Hexavalent Chromium (total)       1 - 250 mL Plastic       NaOH       I										
MONITORING SAMPLE RECORD         Sample ID       Time Collected       Parameter/Order       Container       Perservative       Collected?         TCL-VOCs       3 - 40 mL VOA       HCl       TPH-GRO       3 - 40 mL VOA       HCl         TPH-GRO       3 - 40 mL VOA       HCl       TPH-GRO       3 - 40 mL VOA       HCl         TPH-DRO       2 - 1 L Amber       none       none       Image: Collected of the second of the secon				_	_					
Sample ID         Time Collected         Parameter/Order         Container         Perservative         Collected?           Image: Algo - 024 (s) - 19         Image: Algo - 024 (s) -	PARTICIPAL PROPERTY	Louis Contraction	Para and a star	MO	NITORINO	SAMPLE R	ECORD			A Long and a long
Alto - 024 (5) - 19       13.4%       TCL-VOCs       3 - 40 mL VOA       HCl         TPH-GRO       3 - 40 mL VOA       HCl       1         TPH-GRO       3 - 40 mL VOA       HCl       1         TPH-GRO       2 - 1 L Amber       none       1         TCL-SVOCs       2 - 1 L Amber       none       1         Oil & Grease       2 - 1 L Amber       none       1         TAL-Metals &       1 - 250 mL Plastic       HNO3       1         Hexavalent Chromium (total)       1 - 250 mL Plastic       NaOH       1         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       NoOH         Field Filtered       1 - 250 mL Plastic       none       1         PCB       2 - 1 L Amber       None       1         Matrix Spike       Duplicate       1       1         Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft       1	Sampl	le ID	Time (	Collected	Parame	eter/Order	Conta	ainer	Perservative	Collected?
AIO - O24(5) - 19       1346       ITH-GRO       3 - 40 mL VOA       HCI         THI-GRO       2 - 1 L Amber       none       1         OI & Grease       2 - 1 L Amber       none       1         OI & Grease       2 - 1 L Amber       none       1         OI & Grease       2 - 1 L Amber       none       1         OI & Grease       2 - 1 L Amber       HCI       1         TAL-Metals &       1 - 250 mL Plastic       HNO3       1         Hexavalent Chromium (total)       1 - 250 mL Plastic       NaOH       1         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       None         Hexavalent Chromium (Dissolved)       1 - 250 mL Plastic       none       Matrix Spike         Duplicate       Duplicate       Comments:       Comments:       Comments:         Casing Volume: 1° LD. = 0.041 gal/ft - 2° LD. = 0.163 gal/ft - 4° LD. = 0.653 gal/ft - 6° LD. = 1.47 gal/ft       Matrix Spike	Sump				TCI	-VOCs	3 - 40 m	L VOA	HC1	
$A_{10} - 024(5) - 19$ $I = 46$ $I = 166$ $I = 1666$ $I $					TPH	I-GRO	3 - 40 m	L VOA	HC1	
AIO - O24 (5) - 19       1346       TCL-SVOCs       2-1 L Amber       none         Oil & Grease       2-1 L Amber       HCl         TAL-Metals &       1 - 250 mL Plastic       HNO3         Hexavalent Chromium       1 - 250 mL Plastic       none         (total)       1 - 250 mL Plastic       NaOH         TAL-Metals &       1 - 250 mL Plastic       NaOH         Total Cyanide       1 - 250 mL Plastic       NaOH         TAL-Metals &       1 - 250 mL Plastic       None         Mercury (Dissolved)       1 - 250 mL Plastic       none         Field Filtered       1 - 250 mL Plastic       none         PCB       2 - 1 L Amber       None         Matrix Spike       Duplicate       Duplicate         Sampled By:       TC×       Comments:       Comments:					TPH	I-DRO	2 - 1 L	Amber	none	
AIO - O24 (5) - 19       I 3 4%       Oil & Grease       2 - 1 L Amber       HCl         TAL-Metals & Mercury (total)       1 - 250 mL Plastic       HNO3         Hexavalent Chromium (total)       1 - 250 mL Plastic       none         TAL-Metals & Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         TAL-Metals & Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         Field Filtered       1 - 250 mL Plastic       none         Hexavalent Chromium (Dissolved)       1 - 250 mL Plastic       none         Field Filtered       1 - 250 mL Plastic       none         PCB       2 - 1 L Amber       None         Matrix Spike       Duplicate       Duplicate         Comments:       Comments:       Comments:					TCL	SVOCs	2-1L	Amber	none	
AIO - O24 (5) - 19       1344       TAL-Metals & Mercury (total)       1 - 250 mL Plastic       HNO3         Hexavalent Chromium (total)       1 - 250 mL Plastic       none         Total Cyanide       1 - 250 mL Plastic       NaOH         TAL-Metals & Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         TAL-Metals & Mercury (Dissolved)       1 - 250 mL Plastic       NaOH         Field Filtered       1 - 250 mL Plastic       HNO3         Field Filtered       1 - 250 mL Plastic       none         PCB       2 - 1 L Amber       None         Matrix Spike       Duplicate       Duplicate         Sampled By:       TCV       Comments:					Oil &	c Grease	2-1L	Amber	HCl	
Austric Term       Image: Austric Term         Hexavalent Chromium       1 - 250 mL Plastic       none         Total Cyanide       1 - 250 mL Plastic       NaOH         TAL-Metals &       Mercury (Dissolved)       1 - 250 mL Plastic       HNO3         Field Filtered       I - 250 mL Plastic       HNO3         Hexavalent Chromium       (Dissolved)       1 - 250 mL Plastic       HNO3         Field Filtered       I - 250 mL Plastic       none         PCB       2 - 1 L Amber       None         Matrix Spike       Duplicate       Duplicate         Comments:       Comments:       Comments:	A10-024	(5)-19	134	4	TAL-	Metals &	1 - 250 m	L Plastic	HNO3	
(total)         Total Cyanide       1 - 250 mL Plastic       NaOH         TAL-Metals &       1 - 250 mL Plastic       HNO3         Field Filtered       1 - 250 mL Plastic       HNO3         Hexavalent Chromium (Dissolved)       1 - 250 mL Plastic       none         Field Filtered       1 - 250 mL Plastic       none         PCB       2 - 1 L Amber       None         Matrix Spike       Duplicate	HIIS-WE I				Hexavaler	nt Chromium	1 - 250 m	L Plastic	none	,
TAL-Metals &       1 - 250 mL Plastic       HNO3         Field Filtered       1 - 250 mL Plastic       HNO3         Hexavalent Chromium (Dissolved)       1 - 250 mL Plastic       none         Field Filtered       1 - 250 mL Plastic       none         PCB       2 - 1 L Amber       None         Matrix Spike       Duplicate					Total	Cvanide	1 - 250 m	L Plastic	NaOH	
Mercury (Dissolved)       1 - 250 mL Plastic       HNO3         Field Filtered       1 - 250 mL Plastic       none         Hexavalent Chromium       (Dissolved)       1 - 250 mL Plastic       none         Field Filtered       PCB       2 - 1 L Amber       None         Matrix Spike       Duplicate					TAL-	Metals &			110011	
Hexavalent Chromium (Dissolved) Field Filtered       1 - 250 mL Plastic       none         PCB       2 - 1 L Amber       None         Matrix Spike       Duplicate					Mercury Field	(Dissolved) Filtered	1 - 250 m	L Plastic	HNO3	
PCB         2 - 1 L Amber         None           Matrix Spike         Duplicate           Duplicate         Comments:           Sampled By:         TCV           Casing Volume:         1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft					Hexavaler (Dis Field	nt Chromium solved) <b>Filtered</b>	1 - 250 m	L Plastic	none	ŧ
Matrix Spike           Duplicate           Comments:           Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft					F	РСВ	2-1L	Amber	None	
Duplicate           Sampled By:         Comments:           Casing Volume:         1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft				ľ	Matrix Spike					
Sampled By:         Tev           Casing Volume:         1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft					Duplicate					
<b>Casing Volume: 1" I.D.</b> = 0.041 gal/ft - <b>2" I.D.</b> = 0.163 gal/ft - <b>4" I.D.</b> = 0.653 gal/ft - <b>6" I.D.</b> = 1.47 gal/ft	Sampled	By: TCV		Commen	nts:					
$A_{\rm Y}$ $a_{\rm rel}/A = (a_{\rm rel})$		Casing V	<u>'olume:</u> 1" I.	<b>D</b> . = 0.041 g	gal/ft - 2" I.D.	= 0.163 gal/ft - 4'	$^{\circ}$ <b>I.D.</b> = 0.653	gal/ft - <b>6" I.I</b>	<b>).</b> = 1.47 gal/ft	

Project I lame: AIO CVOC GW       Project I lumber: [%07/6M         Well Flumber: AIO -025(P) - P2       Date: 10 - /0 - /9         Well Eiameter (in)       One Well Volume (gal):         Depth to Product (ft)       QED Controller Settings:         Depth to Water (ft):       Project I lumber: [%07/6M         Depth to Water (ft):       QED Controller Settings:         Product Thickness (ft):       Flow Rate (mL/min)         Depth to Bottom (ft): [2.0]       Condition of Pad/Cover         Volume       DTW       Term         PH       Specific       Dissolved         OEF       Turbidity         Output       DTW       Term	
Well Number: Alo-O25(P) - PZ     Date: 10 - /0 - /9       Well Liameter (in)     One Well Volume (gal):       Depth to Product (ft):     QED Controller Settings       Depth to Water (ft):     Plow Pate (mL/min)       Depth to Bottom (ft):     Length of time Purged (min)       Conduct Thickness (ft):     Condition of Pad/Cover       Volume     DTW       Volume     DTW	
Weil Frameter (in)     One Well Volume (gal):       Depth to Product (R):     QED Controller Settings:       Depth to Water (R):     QED Controller Settings:       Product Thickness (R):     Flow Rate (mL/min)       Depth to Bottom (R):     [2:0]       Volume     DTW       PH     Specific       Dissolved     ORF       Turbidity       One Well Volume (gal):	
Weit Brainetor (in)     QED Controller Settings       Depth to Product (ft):     Plow Rate (mL/min)       Depth to Water (ft):     Length of time Purged (min)       Product Thickness (ft):     Condition of Pad/Cover       Depth to Bottom (ft):     [2:0]       Wolume     DTW       Temp     PH       Specific     Dissolved       OEF     Turbidity       Output     OTW	
Depth to Product (ft).     Flow Pate (mL/min)       Depth to Water (ft).     Flow Pate (mL/min)       Product Thickness (ft).     Length of time Purged (min)       Depth to Bottom (ft): [2.0]     Condition of Pad/Cover     /       PURCING RECORD     PURCING RECORD       Volume     DTW     Temp     pH       Specific     Dissolved     OEF     Turbidity	Contraction of the local data
Depth to Water (n)     Length of time Purged (min)       Product Thickness (n)     Condition of Pad/Cover     /       Depth to Bottom (n):     [2.0]     Condition of Pad/Cover     /       PURCING RECORD       Volume     DTW     Temp     pH     Specific     Dissolved     OEF     Turbidity       Volume     DTW     Temp     pH     Onductance     Oxygen     OUTED     OUTED	
Product Thickness (n).     Condition of Pad/Cover     /       Depth to Bottom (R): [2:0]     Condition of Pad/Cover     /       PURCING R#CORD     PURCING R#CORD     /       Volume     DTW     Temp     pH       Specific     Dissolved     OEF       Uolume     DTW     Temp     pH	
Depth to Boftom (n):         2.5         Standard of an	
Volume DTW Term pH Specific Dissolved OFF Turbidity	
TimePurged (gallons)(feet)(°C)(s.u.) $\pm 0.1$ (ms/cm)(mg/L) $\pm 3\%$ (mv)(MV)(gallons)(feet)(°C) $\pm 0.1$ $\pm 3\%$ $\pm 0.3$ $\pm 10$ $\pm 10\%$ or < 5	Comment
MONITORING SAMPLE RECORD	
Time Collected Parameter/Order Container Perservative	Collecte
TCL_VOCs 3-40 mL VOA HCl	
TPH-GRO 3-40 mL VOA HCi	
TPH-DRO 2-1 L Amber none	
TCL-SVOCs 2-1 L Amber none	
Oil & Grease 2-1 L Amber HCl	
TAL-Metals & 1 - 250 mL Plastic HNO3 Mercury (total)	
Hexavalent Chromium (total) 1 - 250 mL Plastic none	
Total Cyanide 1 - 250 mL Plastic NaOH	
TAL-Metals &         Mercury (Dissolved)       1 - 250 mL Plastic         HNO3         Field Filtered	
Hexavalent Chromium (Dissolved) 1 – 250 mL Plastic none Field Filtered	-
PCB 2-1 L Amber None	
Matrix Spike	
Duplicate	and the state of the state of the
Sampled By: TCV Comments: dry	
<u>Casing Volume:</u> 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft ft xgal/ft =(gal)	

	Low Flow Perman	v Samp ent We	ling lls		ARM Group Inc. Earth Resource Engineers and Consultants							
Project Name:	1 V9 01 4	20			Project Nun	nber:	1800	lla				
Well Number:	ALD- ODE	5/51-	0.2	- F	Date: 10/15/19							
Well Diameter	(in): v		-		One Well Volume (gal):							
Depth to Produ	1Ct (ft); 200 10 0	ALC: NO ALC: NO		and the second second	OED Contro	oller Setting	S'					
Depth to Water	r(ft): 1 2 C	-1		and the second sec	Elow Pate (	ml (min)	3. // ()					
Depth to Water		>/			Flow Kate (		40					
Product Thick	$\frac{1}{1000}$	0.3			Condition of Pad/Cover							
Depth to Botto	om (ft): 20,	25		BUDCU	Condition of Pad/Cover:							
	1	-	-	PURG	ING RECOR							
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments			
0915	0	13.51	15.8	6.48	1.125	11.22	-112.9		V turbid			
6920	0.3		15.9	6.01	0.948	8.54	-76.8		mod turbid			
0925	0.5		15.9	5,60	888.0	6.76	-18.2		APIA NISO			
-030	0.4		15.R	5,50	08/8	6.22	- 0.10		I should			
2225	0.55	1	158	654	0 815	5.98	149		h and day			
6046	10.12		10,0	0.01	0,005	0110	r /		purgen ing			
0990									P			
	-											
The second			МО	NITORINO	SAMPLE R	ECORD		1000	Self Party and Party			
Samn	le ID	Time (	ollected	Parame	eter/Order	Conts	ainer	Percervative	Collected?			
Sump.		T IIII C	oncerea	TOI	VOCa	2 40		I CISCIVALIVE	Conceleu!			
	() 07			TDI		3 - 40 mL VOA		HCI				
A10-025	(S)-ME				I-UKU	3 - 40  III		HU				
		0950	З	TCI	SVOC-	2-1L.	Amber	none				
					SVUCs	2-1L/	Amber	none				
					Grease	2-1L2	Amber	HCI				
				TAL-I	Metals &	1 - 250 m	L Plastic	HNO3				
				Mercu	ry (total)							
				Hexavaler	it Chromium	1 - 250 m	L Plastic	none				
		1		(1)	otal)	1 050	T D1					
-				lotal	Cyanide	1 - 250 m	L Plastic	NaOH				
				TAL-1	Metals &							
				Mercury	(Dissolved)	1 - 250 m	L Plastic	HNO3				
				Field	Filtered							
				Hexavaler	t Chromium							
				(Dig	solved)	1 - 250 m	Diactio	none				
				Field	Filtored	1 - 250 III	L i lastic	10116				
				r leid	гшегец							
				Р	CB	2 - 1 L .	Amber	None				
			Ν	Aatrix Spik	9							
				Duplicate								
			Commen	its:								
Sampled	By: LMG			IAC								
			ĊV			<u> </u>	r.h.hhi	as in tich	in after 1			
	Casing V	olume: 1" I.	D. = 0.041  g	al/ft - 2" I.D. =	= 0.163 gál/ft - <b>4</b> "	I.D. = 0.653 g	al/ft - 6" I.D	= 1.47 gal/ft / )/	I Vali			
				ft x	gal/ft =	(gal)	but	rechargin	a v me			
							fact	1 1	/			

	DOPTIONT	-FOR TRAC	No.		they and they are the second the second the							
	A OR CARDER.				Decise humber							
Project Hame			-		Project Num	)er			di <del>n i te sa</del>			
Well Humber	A10-027(P)	-P2	and the second		Date:							
Vell Liameter	(iri)	(			One Well Volume (gal):							
Depth to Produ	ct (ft)				DEL Controller Sectings							
Depth to Water	(P) dry				Flow Kate (mL/min)							
Product Thickn	iecs (ft):	the second s			Length of tin	te Purged ()	mm)					
Depth to Botton	m (A): 9.93				Condition of Francover /							
				PURG	NC RECORD							
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFF (m <sup>-/</sup> ) ± 10	Turbidity (NTU) ± 10% or < 5	Comi			
	<u> </u>											
	<u> </u>				1							
	1											
			MC	INITORIN	IG SAMPLE F	ECORD		Democratic	Coll			
Samp	ole D	Time	Collected	Paran	neter/Order	Con	amer	Perservative				
		1		TC	L-VOCs	3 - 40 mL VOA		HCI				
				TP	H-GRO	3-40 n	Amber	HCI				
				TP	H-DRO	2-11	Amher	none				
		1			L-SVULS R Grance	2-1L 2-1L	Amber	HCl				
				TAL	-Metals &	1 - 250 r	nL Plastic	HNO3				
				Hexaval	ent Chromium (total)	1 - 250 1	nL Plastic	none				
				Tot	al Cyanide	1 - 250 1	nL Plastic	NaOH				
		TA Merce			-Metals &	1 - 250 mL Plastic						
				Mercur Fiel	y (Dissolved) d F <b>ilte</b> red	1 - 250 1	mL Plastic	HNO3				
				Mercur Fiel Hexaval (D Fiel	ry (Dissolved) d Filtered lent Chromun vissolved) ld Filtered	1 - 250 i i - 250 i	mL Plastic mL Plastic	none				
				Mercun Fiel Hexaval (D Fiel	y (Dissolved) d Filtered lent Chromun bissolved) ld Filtered PCP.	1 - 250 i i - 250 i 2 - 1 i	mL Plastic mL Plastic L A.mber	none None				
				Matrix Sr	ry (Dissolved) ld Filtered lent Chromun vissolved) ld Filtered PCB vike	1 - 250 i i - 250 i 2 - 1 i	mL Plastic mL Plastic L Amber	none None				
				Mercur Fiel Hexaval (D Fiel Matrix Sp Duplica	y (Dissolved) d Filtered lent Chromun pissolved) Id Filtered PCB pike	1 - 250 i i - 250 i 2 - 1 !	mL Plastic mL Plastic L Amber	none None				
Sample	d By: <u>TCV</u>	,	Comm	Mercur Fiel Hexaval (D Fiel Matrix Sp Duplica ents:	ry (Dissolved) d Filtered lent Chromiun vissolved) ld Filtered PCB vike te	1 - 250 i i - 250 i 2 - 1 i	mL Plastic mL Plastic	none None				

	E.GLIUSIU FINAA K. HABAA	ent We	nnnes,		The same his seizes fractions and consolium						
and the second second			the state of the state		Reciper's Linea	Ser 1407	11.00				
Project Hame	Alo Choc	UW	Constant and and		Finte 10 - 0	-10	10/11				
Well Plumber	A10-0270	1)- PZ	and the second second		One Well V	lunce (cal)					
Well Liameter	(1171)			None of Contract	OFF Control	Her Cetting					
Depth to Produ	ict (ii):				Elen Esto (r	no oning					
Depth to Wate	r (R)	13.45			Flow Pate (	fil/mill,	ro sur 1				
Product Thicks	ness (ft)				Length Of III	ne Purgeo (	mmi)	1			
y Depth to Botto	m (fi): 23,3°		Site and an and a		Condition of	1 280/100/61					
And Martin Constraints				PURG	NGREADEL	This and have do	1				
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFF (m <sup>-/</sup> ) ± 10	Tulpidity (147U) ± 10% di < 5	Comments		
1040		13.57	17.19	6,43	0.724	2.30	92.8				
1045	1	13.58	16.71	6.46	0.744	1.88	88.4				
10.50		13.58	16.80	6.45	0.749	1.60	567.6				
1055		13.59	16.53	6,41	0.74A	1.28	93.1				
(100		13.59	16.79	6.44	0.747	1,13	87.0				
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	-				1		1	ll			
Concernation of the second			MO	NITORIN	G SAMPLE F	RECORD					
Same	ale D	Time	Collected	Param	neter/Order	Con	tainer	Perservative	Collected		
		-		TCL-VOC: TPH-GRO		3 - 40 m	nL VOA	HC1			
		l				3 - 40 m	nL VOA	HCI			
				TP	H-DRO	2 - 1 L Amber		none			
				TCI	L-SVOCs	2-1 L	Amber	none			
A. 027	(P)-PZ	1114	~	Oil	& Grease	2-1 L	Amber	HCl			
A10-02		11/-	)	TAL Merc	-Metals & ury (total)	1 - 250 K	nL Plastic	HNO3			
				Hexaval	ent Chromium	1 - 250 r	nL Plastic	none			
l l		1		Tois	1 Cyanide	1 - 250 1	nL Plastic	NaOH			
		ř		TAI	-Metals &			1			
				Iviercur Field	y (Dissolved) d Filtered	1 - 250 1	nL Plastic	HNO3			
				Hexaval	ent Chromun	a					
				(D	issolved) d Filtered	1 - 250 1	mL Plastic	none			
				T. I.C.I.	PCB	2-11	Amber	None			
		- land	]	Matrix Sp	ike						
				Duplicat	e						
Sample	d By: TCV		Comme	nts:							
	Casing	Volume: 1"	[.D. = 0.041	gal/ft - 2" I.I ft v	). = 0.163 gal/ft - 4 gal/ft =	(gal)	3 gal/ft - 6" I.	D. = 1.47 gal/ft			
and the second s		and a support of the loss			But Xt				Marine Constant of the		

н	Permane	nt Wel	le l		New Street	Ladelleso	nes Lugino	desarda ananti	005		
CONTRACTOR OF STREET				-	Project humi	Net: 14071	640		Contraction of the local division of the loc		
Project Hame /	tio croc (	rW.	Harris Alberta	er maar van eerste	Froject Path	10 10 11	0.01				
Well Humber	NO-029(P)-	pz			Date 10-10	huma (mil)					
Well Diameter (	(in).				OTE Control	llor Cetting	-				
Depth to Produc	ct (ft)				THE DOMOU	nor occurre		VILLE OF DATE AND A VILLE OF DE			
Depth to Water	(1):11.56				Flow Pate in	aL/mm;					
Product Thickne	ecs (ft)			Sectore Reality	Length of th						
Depth to Botton	n(A): 16.70				Condition of	Pacy Cover					
		(more states)		PIRC	INC RECORD	) 	1				
Time	Volume Furged (gallons)	DTW (íeet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OF.P (mV) ±10	Tubbidity (1+1"U) ± 10% or < 5	Comments		
1207		15.05	23.01	7.17	0.887	0.83	44.4				
					-						
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			MC	NITORI	NG SAMPLE F	RECORD	and the set of		Including the second		
Samp	le ID	Time	Collected	Parar	neter/Order	Con	ainer	Perservative	Collected		
		1		TC	L-VOCs	3 - 40 mL VOA		HCI			
				TI	PH-GRO	3 - 40 m	aL VUA	HU			
		1		TI	PH-DRO	2-11	Amber	none			
			~~~	TC	L-SVOCs	2-1L	Amber	none			
	59-191	0.85	2	Oil	& Grease	2-1L	Amber	<u>nci</u>			
A10-029		(ante e	anale	TAI	L-Metals &	1 - 250 r	nL Plastic	HNO3			
		collect	ed.	Hexava	lent Chromiun	n 1 - 250 s	nL Plastic	none			
		10-11	-19)	Tot	al Cyanide	1 - 250 1	mL Plastic	NaOH			
			,	TAI Mercu Fie	L-Metals & ry (Dissolved) Iol Filtered	1 - 2.50 1	mL Plastic	HNO3			
				Hexava (I Fie	lent Chromiur Dissolved) 1d Filtered	n 1 - 250	mL Plastic	none			
		5			PCB	2-1]	L Amber	None			
				Matrix S	pike						
				Duplice	ute						
Sampleo	d By: TCV		Comm	ents: Pun	ged dry	@ 1204	в				
	Coolas	Volume: 1"	I.D. = 0.04	] gal/ft - 2" I	.D. = 0.163 gal/ft -	4" <b>I.D. = 0.6</b> 5	3 gal/ft - 6" I.	1). = 1.47 gal/ft			
1	CLORENT.	ft xgal/ft = (gal)									

	Perman	ont We	HIC Heres		12 M	1 august	novi 1 nom	in and one	di 2019.
	AL		and the state		Project   Jun	ther 1800	11.0		
Project Heme	Allo CVQC	61-07		and the second second	Date in Li	5/19	ion		
Weit Funder	A10-02-11	OT PE	and the state		Ome Vell /	olume (gal)			
Well Litamete			-up <del>man par</del>	States and the	OFF Contro	oller Cetting	S'		and a second second second
Depth to Prod		1X			Flow Pate (	m I./min . 2	10		
Depth to Wat	er (m) /8. )	10			Length of th	me Purged (	mml		
Product I bick				- 2010/01/01/01/01/01	Conginon o	E Pari/Cover			
Depth to Soft	om (II): 35-7	34		61 D.C.	ING RECORD	0	and the second		
	1	1	1	1	Specific	Dissolved	1		
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s u.) ± 0 î	Conductance (ms/cm) ± 3%	Ожуgen (mg/L) ± 0.3	(m <sup>-</sup> /) ± 10	1 urotaity (NTU) ± 10% or < 5	Comments
125 15		89.21	22.5	1.08	1.208	8.22	-32.9		firbed
1255	2	18.98	21.1	5.59	10.978	15.59	-26-3		1. turbid
1400	10	118.98	20.7	0.47	0.942	4.53	-20.8		clea
1405	.9		20.2	5.45	0.931	4.01	1-19.5		
1410	11.2		20.3	15,44	0.930	3.83	1-19.1		
1415			20.1	15.43	0.931	3,72	-18, 4		
									ļ
			1						
				_	1		<u> </u>		
						ļ	<u></u>		
		1	1	1	1	1			1
			M	ONHORIN	C. SAMPLEB	CPC (MED	and the second	0	1
Sam	ple ID	Time	Collected	Param	neter/Order	Con	Container		e Collected
	1			TC	L-VOCs	3 - 40 1	3 - 40 mL VOA		
A10-0290	S)-P-4-	1420	)	TP	H-GRO	3 - 40 m	nL VOA	HCI	
				TP	H-DR.O	2-11	2 - 1 L Amber		
				TCI	L-SVOCs	2-1L	Amber	none uCl	4
				<u> </u>	Sz 'jrease	Z-IL	AIMDEI	FR-1	
				IAL	-Metals &	1 - 250 i	nL Plastic	HNO3	
				Heyaval	ent Chromiun	all		1	
				T TOXAGO A CON	(total)	1 - 250 1	nL Plastic	none	
		ġ.		Tota	al Cyanide	1 - 250 1	mL Plastic	NaOH	
		1		TAL	,-Metals &				
				Mercur	y (Dissolved)	1 - 2.50 1	mL Plastic	HNO3	
				Fiel	d Filtered				_
				Heveval	ent Chromun	n			1
				(D)	issolved)	1 - 250	mL Plastic	none	
		1		Fiel	d Filtered				
				1 101	DOE	~ * * *	h and out	hloma	
				Matrix Ca	PUB		J MAINUCL	TIONS	
				Duralicet	E.				
			Correct	pupiloat			and the second second	Cinter addition of the Party of	aline to act
Correct	ad Reve Land		Comm	01115-					
Sample	JU DY. LMG		6.7	۵C					
	Caging	Volume: 1"	I.D. = 0.04	l gal/ft - 2" I.I	). = 0.163 gal/ft -	4" I.D. = 0.65	3 gal/ft - 6" I.	D. = 1.47 gal/ft	
				ft x	gal/ft =	(gal)	CANAL COLUMN		
Division of the local		the second se							

<u>با</u>	BORTONTIC TABAA T. TABAA	ent Wel	innee, NS			Lande Roser	acc Fiame	res and Consult	011
	X 91 LANDOL					( des)		Contraction of the local distance	
Project i lame	AID CVOC G	rw.			Project Num	Del. 1.2021	6M		
Well Humber	A10-034 (P)	)-P2			Date 10-10	-19		and the second	
Well Diameter	(in):			No. of Concession, Name	Une Well Vo	nume (Bai).			
Depth to Produ	ct (ft):				CED Contro	Her Senings	contraction instantion	where the second se	
Depth to Water	(B): dry	and the second second		and the second	Flow Plate (n	nL/mm)			
Product Thickn	iecc (ft):				Length of th	ne Purged ()	min)		
Depth to Botton	m (ft): 11,90				Condition of	Fact Lover		/	
				PURG	ING RECORD				
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
	]		1						
					-	[			
			1						
					1		<u> </u>		
	And the second second		Mit	INTORIN	IG SAMPLE I	RECORD			
Correr	ie ID	Time	Collected	Paran	neter/Order	Coni	ainer	Perservative	Collected
Danit			Contractory of the State	TC	L-VOCs	3 - 40 n	L VOA	HCl	
		8		TP	H-GRO	3 - 40 n	nL VOA	HCI	
				TP	H-DRO	2-1L	Amber	none	
				TCI	L-SVOCs	2-1L	Amber	none	
		1		Oil	& Grease	2-1L	Amber	HCl	
2				TAL Mer	-Metals & cury (total)	1 - 250 r	nL Plastic	HNO3	
				Hexaval	ent Chromiun (total)	n 1 - 250 r	nL Plastic	none	
		R.		Toù	al Cyanide	1 - 250 1	nL Plastic	NaOH	
				TAI Mercur Fiel	Metals & y (Dissolved) d Filtered	1 - 250 1	nL Plastic	HNO3	
					lent Chromiun vissolved) Id Filtered	n 1 - 250 i	nL Plastic	none	
					PCB	2-11	. Asmber	None	
		a too ware o		Matrix Sp	ike				
				Duplica	te				
Sample	d By:TCV		Comm	ents: dry					
0	Casing	Volume: 1"	∎.D. = 0.04	l gal/ft - 2" I. ft x	D. = 0.163 gal/ft - gal/ft =	4" I.D. = 0.65 (gal)	3 gal/ft - 6" I.	D. = 1.47 gal/ft	
		and the second second		AL /3			a a standar a standar a s	Contraction of the Party	

	E-maa v. emaa	ent Wel	iere 112			r seesa namile o	anco Lucion	and man	di in c
Empot Linger	NG ONAC				Project Hum	ber 180-	Allom		
Project 1 iame	AIO CUOC	1. 0	7		Date 10/1	-17	<u>nen</u>	No. of Concession, Name of Conce	
Nell Fumber	A10-03-	(s)-P	t		Care Mell /	nhome (gal)			
Well Liameter	(111)			Transaction Called Party	OFF Contro	ller Cetting	5)		
Depth to Produ	$\operatorname{ret}(\mathbf{n})$	0	and the second second		Flow Pate (r	ni /man J	1.8		e des viens stores de obj
Depth to Water	r(R) 12.4	2		resete a training	FIGW MADE T	n Durged (	indin l		
Product Thicks	ness (ft)				Canginor a	EndlCover		1	wanted a contra set
Depth to Botto	m (ft) 27.7	1¢		02.000	CONTROL O				
		-		PLACE	Cropific	Dussolved	1		
	Volume	WTG	Term	pH	Conductance	Oxygen	OFP	Turbidity	Correspondence (AD
Time	Purged	(feet)	(°C)	(5.11.)	(ms/cm)	(mg/L)	(m/)	(1110) + 10% or $< 5$	-Comments
	(gallons)	()		±0.;	± 3%	± 0,3	TIO	I TONIOI + 3	and the second
1015	σ	16 92	195	4.68	1.142	8.75	134,0		
1210	0.3	15.73	no	4.11	1.005	5.81	175.8		clear
1015	101	15.24	19.8	416	1,070	4.76	177.2		
1220	0.6	15 71	107	1115	1.01.4	4.37	1180,51	-	
1225	10.1	10 77	14 1	410	11061	4.14	1825		
1230	1.0	115.77	19 4	LII	1.060	4.02	1182 8		
1235			11	17.11	1	1.00	10010		Ì
		-					1		İ
					-				
			ļ						
				_		ļ			
					1	]	<u></u> i		1
			MO	INITORIN	G SAMPLE I	RECORD.	du unit man statut		6
Sam	ole ID	Time	Collected	Param	neter/Order	Con	tainer	Perservative	Collected
- Daring				TC	L-VOCs	3 - 40 r	nL VOA	HCl	
A10-05965	) PE	1240	)	TP	H-GRO	3-40 1	nL VOA	HCI	
				TP	H-DR.O	2-1I	2 - 1 L Amber		1
				TCI	_SVOCs	2-1L	Amber	none	1
				Oil	& Grease	2-1 L	Amber	HCl	
				TAL	-Metals &	1 250	Diantia	LID.IO2	
				Merc	cury (total)	1 - 200	IL FIASHC	111400	
		1		Henaval	ent Chromiun	1 250	n Plactic	aone	
					(total)	1 - 4,701	III. I ICOUS	10110	
		ţ.		Tota	l Cyanide	1 - 250 i	mL Plastic	NaOH	
		6		TAL	-Metals &				
				Mercur	y (Dissolved)	1 - 250 :	mL Plastic	HNO3	
6				Field	d Filtered				
				TT 8	City and the second				100
				Heraval	em unomun	1 . OCA	col Diantia	30004	
				(D	ISSOIVEQ)	1 - 200	INTE FIRSUS	STORIC	Į.
				Fiel	o Filtered	1			
					PCB	2-1)	L Amber	None	
				Matrix Sp	ike				
				Duplicat	e				
		an and the second second	Comm	ents:	the state of the state of the		and the second second		
Comple	d Byr LMC								
Cample	y. <u>reing</u>		CI	10C					
	Coning	Volume: 12	I.D. = 0.04	1 gal/ft - 2" I.E	). = 0.163 gal/ft - 4	e" I.L. = 0.65	3 gal/ft - 5" I.	D. = 1.47 gal/ft	
	- Surveyer	and		ft x	gal/ft =	(gal)			

J	FIADAA W. HABAA	PACETERE	REAL C		10000			and and the second second	
	Permane	nt We			New Street	Larsh Research	ing Tumu	teres and Connode	(0))
	A 1- (1(				Project Mum	her 1407	16 m		
Project Lieme.	HID CVOL	GW			Finite In In	10	0		
Wen Flumber	(	75F2	at the second		One Well Vo	nome (gal):			
Well Laameter	(111):		nation and the second sec		OFD Contro	ller Setting			
Depth to Produ	CE (IL)			Carpentary and a	Flow Rate (n	al /rom			Manufactoria
Depth to Water	111) 14,40				I ength of tir	ne Purged (	min		organitar to realize
Product Thickn	ess (it).				Condition of	Peril Over		1	
Depth to Botton	m (武): 19,40		1.001AL - C11.78.9	01003	NE PECORE				
Time	Volume Purged (gallons)	DTW (îeet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OPF (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
	<u> </u>								
					11		()	1	
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		1							
			1		1				
	1		1						
		1					]		
			MO	NITORIN	G SAMPLE R	(ECORD			U COLUMN TWO IS NOT
Samp	le D	Time	Collected	Param	eter/Order	Cont	ainer	Perservative	Collected
		Ì		TCI	L-VOCs	3 - 40 m	L VOA	HCI	
				TP	H-GRO	3 - 40 m	L VOA	HCI	
				TP	H-DRO	2-1L	Amber	none	
				TCL	-SVOCs	2-11	Amber	none	
				Oil a	Matela &	2-1L	RINDEL		
not enough	n gw			I AL	-ivicials of	1 - 250 n	nL Plastic	HNO3	
cache and	atter			Hexavale	ent Chromium	1 6.00	T THE		
reconige	Cill	1		1	(total)	1 - 250 m	nL Plastic	none	
24 hr to	till one			Tota	l Cyanide	1 - 250 r	nL Plastic	NaOH	
VOA				TAL Mercury Field	-Metals & y (Dissolved) d Filtered	1 - 250 r	nL Plastic	HINO3	
				Hexaval	ent Chromium	1 - 250 r	nL Plastic	none	
				Field	d Filtered				
					PCB	2-11	Amber	None	
				Matrix Spi	ke	a the second sec			
				Duplicate	6				The second second second
Sampled	By: TCV		Comme Apr +	nts: Purce hrongh 4	d dry imi	mediately	eters	nough gu	λ
	Casing	/olume: 1"	I.D. = 0.041	gal/ft - 2" I.D	. = 0.163 gal/fi - 4	" I.D. = 0.653	3 gal/ft - 6" I.I	D. = 1,47 gal/ft	
				<u>ft x</u>	gal/ft =	(gal)			

]	Low Flow Perman	Samp ent We	ling Ils		ARM Group Inc. Earth Resource Engineers and Consultants					
	1 11 111411	VILL VY C								
Project Name:	AID CLOC (	5W		Contraction of the local division of the loc	Project Num	16er: 18071	6M			
Well Number:	A10-035 (S	)·PZ			Date: 10 -11	-19				
Well Diameter	(in):				One Well V	olume (gal)				
Depth to Produ	ct (ft):				QED Contro	oller Setting	s:			
Depth to Water	(ft): 14.2%				Flow Rate (1	mL/min)				
Product Thickn	iess (ft):				Length of tin	me Purged (	min)			
Depth to Botton	m (ft): 26.4	9			Condition of	f Pad/Cover		/		
Contra Maria	( Supervised			PURG	NG RECOR	D	din and a	the second		
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) $\pm 3\%$	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments	
1253		14.35	16.36	5.66	0.939	2,55	90.5			
1258		14.35	15.48	5.55	0.836	1.27	48.7			
1303		14.35	15.74	5.48	0.857	0.70	92.0			
1308		14:35	15:00	5,50	0454	0,54	59.7			
an										
		1								
	UNITED IN		MO	NITORING	G SAMPLE R	ECORD	an galler		5. H	
Count		Time	ollected	Parame	eter/Order	Cont	ainer	Perservative	Collected?	
Samp		Thile C	Ollected	Tatain	NOCa	2 40 m	IVOA	HC1	Concetted.	
				TDI	L-VUCS	3 - 40  mL VOA				
0					I DPO	2 - 1 L Amber		none		
	8	1			SVOC	2-1L 2-1L	Amber	none		
		1	~	Oil &	Grease	2-1 L	Amber	HC1		
A10-0356	s)-PZ	131	3	TAL-	Metals &	<u> </u>		1101		
				Merci	ury (total)	1 - 250 m	L Plastic	HNO3		
				Hexavale	nt Chromium	1 - 250 m	L Plastic	none		
				(t	total)	1 - 250 11.	L. I Idolle			
				Total	Cyanide	1 - 250 m	L Plastic	NaOH		
				TAL-	Metals &					
			α.	Mercury	(Dissolved)	1 - 250 m	L Plastic	HNO3		
				Field	Filtered					
	Hexaval (D			Hexavale (Dis Field	nt Chromium ssolved) Filtered	1 - 250 m	L Plastic	none	12	
					0.17					
-				PCB	2-1L	Amber	None			
			1	Matrix Spik	(e					
			10	Duplicate						
Sampled	Commen									
	<u>Casing V</u>	/olume: 1" I	<b>. . . . . . . . . .</b>	gal/ft - 2" I.D.	= 0.163 gal/ft - 4'	<b>I.D.</b> = 0.653	gal/ft - 6" I.C	<b>).</b> = 1.47 gal/ft		
				ît x	gal/nt =	(gai)	and it is not the other			

	Ectimene Belinea	ME We	lls		hards to some the same the many and the made and						
State States of States and States	A		- Charles and the second		Project Lural	er 14m	Lee.				
Project Hame	AD CVOC G	hr			Finite In In	10.2	01		and the second second second		
Well Humber	A10- 036 (P)	- 12			Ome Well Vo	lume (gal)			anie (1. 2002 - 2002 - 1) - 17 - 1		
Well Lnameter	r (111)	and the second second		and the second	OFF Control	ler Setting					
Depth to Produ	uct (it)				Flow Pate (m	f /min					
Depth to Wate	ar (m) 10.08				Length of tim	e Purped (	min)				
Product Thick	ness (ft)		-		Congition of	Condition of Fed/Cover /					
Depth to Botto	om (R): 15.04		Constant and the	01107	INC DECORO						
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFF (m <sup>1</sup> /) ± 10	Turbidity (14TU) ± 10% or < 5	Comments		
04336		13.20	20.38	7.24	1.521	1.21	13.2				
		-		in the second second							
							<u></u>				
	1	l									
		ļ									
		ļ					<u>  </u>				
					+						
		1	1	NITOPIN	C SAMPLE R	FCORD	1	in the second second			
	0 PTT		T-llasted	Doron	peter/Order	Con	ainer	Perservative	Collected		
Sam	ple ID	1 ime	Conected	Falan	LVOCE	3 . 40 7	nt VOA	HCI	Contract in the		
1				10 TP	H-GRO	3 = 40 r	nL VOA	HCI			
5				TF	H-DRO	2-11	Amber	none			
				TC	L-SVOCs	2-1L	Amber	none			
AID DOL	(0) $0 >$	105	5	Oil	& Grease	2-1 L	Amber	HCl			
1410-036	(1) 72	100		TAL	-Metals &	1 . 250 0	nI. Plastic	HNO3			
		(grab	sample	Men	cury (total)	- 2001					
		- 11	ل مار	Hexaval	ent Chromium	1 - 250 1	nL Plastic	none			
		Lolle	(Ted	Tea	(total)	1, 250 :	mI Plastic	NaOH			
		10-1	1-19)		Nietale &	1 - 4501	THE TRUCK	110041			
				Mercur	y (Dissolved)	1 - 250 1	mL Plastic	HINO3			
				Hexava	ent Chromium		r 51 -				
				(D Fiel	issolved) d Filtered	1 - 250	mL Plastic	none			
					PCB	2-11	L Amber	None			
			Ĩ	Vlatrix Sp	ike	· · · · · · · · · · · · · · · · · · ·					
				Duplica	ie						
Sample	ed By: TCV		Comme	nts: Purc	ged dry	0 963	34				
	Casing	Volume: 1"	I.D. = 0.041	gal/ft - 2" I.)	D. = 0.163 gal/ft - 4	?" I.D. = 0.65	3 gal/ft - 6" I.	D. = 1,47 gal/ft			
	ft xgal/ft =(gal)										

	FUARAA B. BARAN	1 BERLEY	ARAF C		al conta	1. 10. 10. 10. 1		an and the second				
	Perman	ent We	lls		Tummers and Consultant							
	A 1-	-	10-110-000-000		Project   Jum	1402	16 44					
Project Leme.	ATTO LVOC	Gur	and the second second		Date ID-10	-10	674		1000 1000 100 100 100 100 100 100 100 1			
Well Fumber	AIO - 036 L	51° PZ		enteren arrana en ana	Ome Well Vo	lume (gal)	an a					
Well Diameter	(in):				OFF Control	ller Cetting	-					
Depth to Produ					Flow Pate (n	Flow Rate (mL/min)						
Depts to Wate	r(A) [2,75				Length of time Purged (min)							
Product Thicks	ness (ft)		entry of Stations	General and the second	Length of time Fulger (min)							
Depth to Botto	m(n) = 26.41			001020	NC DECORE							
		1		FURG	Specific	Dissolved						
	Volume	WTG	Temp	pН	Conductance	Oxygen	OPP	Turbidity	Comments			
Time	Purged	(icet)	(°C)	(s.u.)	(ms/cm)	(mg/L)	(m/)	+ 10% AV < 5	Comments			
	(gallons)			± 0_1	± 3%	± 0.3	TIV	1 10/101 < 5				
0995	1	12.44	18.38	6,48	D.482	1,19	623					
0910	1	12,84	18.42	6.14	0.446	0.45	69.2					
0915		12.44	14.33	6.13	0.439	0.27	69.1					
0920	1	12.45	146.33	6.08	0.436	0,24	69.9 ]					
0120		1	1.0.2		1		] ]					
					1							
	·	1		i	1			1				
		1			i i							
		-	1		1	and the second se						
							1					
					i		1	1				
							1					
and the second second												
	1	1		L. C. DIN	CANADE E D	LCODD	J	11				
			MO	NHURIN	L SAMPLE R	IX ORD		The second state	Collector			
Samp	ple ID	Time	Collected	Param	eter/Order	Container		Perservative	COHECIEU			
				TC	TCL-VOCs		NOA	HUI				
				TP	H-GRO	3 - 40 mL VOA		HCL				
		1		TP	H-DRO	2-11	Amber	none				
		1		TCL	L-SVOCs	Z-1L	Amper	none				
	(1) 07	092	25	Oila	Sz Grease	L	Amber	<u> </u>				
A10-036	,(5)~~~			TAL	-Metals &	1 - 250 r	nL Plastic	HNO3				
				Merc	ury (total)							
		1		Hexaval	an Chromium	1 - 250 r	nL Plastic	none				
				Tata	(10181)	1 - 250 -	nI. Plactic	NaOH				
				BIOI	Matala &	1 - 2301		LIUSTI				
				LAL	-winds of	1 - 250 -	nI. Plactic	HNO3				
				Iviercur	y (Dissoived)	1 * 6,001	III I IGOLIG	EII VOJ				
				Field	g Millereo!							
				Hexaval	ent Chromium	1		6				
				(Di	issolved)	1 - 250 1	nL Plastic	none				
				Field	d Filtered							
					D/JD	2 11	Aushan	hlome				
				I and in Ch.	FCB	1 6-11	- MANDON	INDIG				
				Mairix Spi	ince							
			10	Duplicat	e	and the second		California and a sub-	Lange and the state of the stat			
	Toto		Comme	nts:								
Sample	d By: 1 CV											
			l				and the second second					
	Caping	Volume: 1"	I.D. = 0.041	gal/ft - 2" I.D	). = 0.163 gal/fi - 4	" I.D. = 0.65	3 gal/ft - 6" I.)	D. = 1.47 gal/ft				
		and show periods and	and a supervised state	n x	xgal/ft =(gal)							

1	FIANAA W. BANAN	PREFERENCE P	AFFRE		Ver an and	1. 8. 6. 5. 1		diaments success	((1))	
	Perman(	ent We	HIS.		and the second s	Cattor Arrest	nors ( minor	A REAL PROPERTY AND A REAL		
inter Dame:	ALD CYDC	(ala			Project Num	ber 18071	16M			
Well Lumber	A10-03710	1-07			Date: 10-10	- 14				
Well Friemotor	(in)	)-1-2			One Well Ve	olume (gal)	š.			
well Litameter	(11)	22 A2 424 1144		10,000 000000	OED Controller Settings					
Jepth to Produ	(CE (11))		state of the later		Flow Plate (mL/min,					
Depth to Water	11.57				I enoth of the	me Purged (	(min)		- 124-034	
Product Thicks	nepp (ff)		Talling of States	15000 1000-00	Condition of	Pari/ over		1	and the state	
Depth to Botto	m (R): 15.02			01107	NC RECORD	1 665 0 0 1 0				
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0,1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OF.P (m√) ± 10	Furbidity (1-1TU) ± 10% or < 5	Comm	
1400		14.61	19.36	6.63	0.253	1.17	91.3			
			1							
							+			
								1		
	1	1								
						<u></u>				
			1							
	1	1	1							
	1		1							
	1	1		1						
		1		-						
Culture			MI	NITORIN	G SAMPLE I	RECORD				
0		Time	Collected	Paran	neter/Order	Con	nainer	Perservative	Colle	
Samp		Ime	CONCERCE	TO	I-VOCo	3 - 40 3	mL VOA	HC1		
				TE	H-GRO	3-401	mL VOA	HCI		
				TP	H-DRO	2-11	Amber	none		
				TC	L-SVOCs	2-11	Amber	none		
		100	$\circ$	Oil	& Grease	2-1Ī	Amber	HCI		
A10-037	(P)-PZ	102	semole.	TAI	-Metals &	1 - 250	mL Plastic	HNO3		
		Colle	cted	Hexaval	ent Chromiun (total)	n 1 - 250	mL Plastic	none		
		10	(11-19)	Tot	al Cyanide	1 - 250	mL Plastic	NaOH		
				TAI Mercu Fiel	Metals & y (Dissolved) d Filtered	1 - 250	mL Plastic	HNO3		
				Hexava (D Fiel	lent Chromiu vissolved) Id Filtered	n 1 - 250	mL Plastic	none		
					PCE	2-1	L Amber	None		
				Matrix Sr	ike					
				Duplica	te	and the second second second	Normality & Marine & Con			
	der TCV		Comm	ents: Pure	ged dry G	1401				
Sample	Ф. Ц. Г.									
Sample	<u>. 1</u>	¥7.1	2 H ED = 0.04	nei/fr - 3% T	n = 0 162 gal/fr -	4" I.D. = 0.6	53 gal/ft - 6" I.	D. = 1.47 gal/ft		

	Fina Fina	ent <mark>W</mark> e	nnes NS			hanh Res	nore Emilia	ers and suisab				
Europé ) Ingao	AID CLOC	6.1			Project Num	per: 1507	16M					
Pojeci Liame	110 LV02	UW DZ			Date: 10-10	- 19	10.					
Well Fumber	1410~ 0.37 (5	5)-12	Concept of the second of		Ome Well Vo	lume (gal)		and a state of the				
Well Lnameter	r (III)			nuovers sitti te	OED Controller Settings							
Depth to Prod		4-11-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			Flow Rate (m	at /min			Company and the second			
Depth to Wate	er (n): 12,56	and the second	Contractorial data	CALICO LOT CO	I fow Rate (in	se Purged i	min					
Product Thick	nece (n).			-	Condition of	DentCove	(117711) (117711)	1	212211111111			
Depth to Botto	om (ft): 24.76		N 100 1 1 1 1 1 1 1 1 1 1 1 1 1	01100	INC RECORD	1 80 00 10						
		1	1	PURG	- Specific	Encolved	1					
	Volume	DTW	Temp	pH	Conductance	Oxygen	ORP	Turbidity	Coroments			
Time	Purged	(feet)	(°C)	(s.u.)	(ms/cm)	(mg/L)	+ 19	+ 10% or < 5	-Solininana			
	(gailons)			±0,1	± 3%	± 9.3						
1420		12.76	16.53	6.81	0.30%	1.99	53,1					
1425		12.76	17.46	6,09	0.255	0.78	737					
1430		112,76	17,26	6.01	0.239	0.53	79.2					
1435		12,77	17.29	6.01	0.236	0.43	180.9					
	1											
			1									
		1	1									
			1	1								
		-		1	1							
	_			1	_							
Reading of Cardina and			340	NILOPIN	SAMPLE R	ECORD		to				
				I Discourse	n otoral Ordon	Con	rainer	Perservative	Collected			
Sam	ple ID	Time	Collected	Paran	neter/Order	2 40 -	NOV To	HCI	Dollor			
				10	CL-VUCE	2 40.	DI VOP.	HCI				
				11	H-UKU	2 - 40 I	Amber	none				
					H-DKU	2-11	Amber	none				
					L-SVUUS E-Gronde	2-11	Amber	HCI				
		1440	2		Metale &	<u></u>	// 111001	1101				
A10-03	7(S) - PZ			hAce	curv (rotal)	1 - 250	mL Plastic	HIJO3				
, -				Heveval	lent Chromium	1		1				
				1 1 0 7 565 V 661	(total)	1 - 250	mL Plastic	none				
		1		Tot	al Cyanide	1 - 250	mL Plastic	NaOH				
		ł.		TAI	-Metals &							
				Mercu	rv (Dissolved)	1 - 250	mL Plastic	HNO3				
				Fiel	ld Filtered							
						1	a she parata an anna an					
				Hexava.	lent Chromiun		T This shi					
ĺ				(D	bissolved)	1 - 250	ML Plastic	none				
				Fiel	ld Filtered	1						
					PCB	2-1	L Amber	None	-			
				Matrix Sp	oike							
		Construction of the second		Duplica	te							
			Comme	ents:								
Cample	d By TCV											
Cantrally	·											
	Casing	Volume: 1"	I.D. = 0.041	gal/ft - 2" I.	D. = 0.163 gal/ft - 4	<sup>29</sup> I.D. = 0.65	53 gal/ft - 5" I.	D. = 1.47 gal/ft				
	5100 - 100			ft x	gal/ft =	(gal)						

	Livia Linaa Belinsue	ent We	HE.		in state	r ach treso	ana Funan	re-milt mont	a0
Protect Llome	Alo (vor	Chr		and the second second	Project 1 Jum	ber 1807	716M		
Well Dumber	A10-034 (	P)-PZ			Date: 10-10	-19			
Well Frigmeter	(in)		100 10 10 10 10 10 10 10 10 10 10 10 10	State of the second	One Well Vo	olume (gal):			
Fronth in Produ	uct (ft)				QED Contro	ller Setting	D		
Depth to Mote	(B) 10.05			COLUMN THE OWNER	Flow Plate (n	nL/mn,			-
Depth to Walk		() <b></b>	The second second second		Length of tir	ne Purged (	min)		
Product I mer	Instruction		COLOR PROPERTY		Condition of	Paci/Cover		1	
Depth to Bollo	JHL (1): 15/02		CHICKLE CARTON	PURCH	NO RECORD	)			
Tume	Volume Purgeo (gallons)	DTW (feet)	Temp (°C)	ρΗ (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFF (m <sup>1/</sup> ) ± 10	Tuipidity (NTU) ± 10% or < 5	Comments
1104		12.10	20.04	7.02	0.544	0.63	22,9		
			MO	NITORIN	G SAMPLE F	REORD			
Sam	mle ID	Time	Collected	Param	neter/Order	Con	tainer	Perservative	Collected
	1	1		TC	L-VOCs	3 - 40 r	nL VOA	HCl	
		1		TP	H-GRO	3-401	nL VOA	HC1	
				TP	H-DRO	2-11	. Amber	none	
		1		TCI	L-SVOCs	2-1L	, Amber	none	
	(1) 05			Oil	& Grease	2-1L	, Amber	HCI	
A10-034	S(P)-P2	112	20	TAL	-Metals &	1 - 250 1	mL Plastic	HNO3	
		lach	Sande	Merc	cury (total)				
		L'S'	- Orthpic	Hexaval	ent Chromiun	n 1 - 250 i	mL Plastic	none	
		Colle	ected	Tair	(total)	1 . 250	mI Plastic	HORM	
		10-	-11-19)	TAL Iviercur Fiel	n Cyanoc -Metals & y (Dissolved) d Filtered	1 - 250	mL Plastic	HNO3	
				Hexaval (D Fiel	ent <b>Chromiur</b> issolved) d Filtered	n 1 - 250	mL Plastic	none	
1					PCB	2.1	L Amber	None	
				Matrix Sp	ike				
			19.00.00.000 (Contraction)	Duplicat	ie				1
Sample	ed By: TCV		Comme	mis: Parg	ed dry E	110%			
	Casing	Volume: 1	™ I.D. = 0.041	gal/ft - 2" I.I _ft x	D. = 0.163 gal/ft - gal/ft =	4" I.D. = 0.65 (gal)	53 gal/ft - 6" I.	.D. = 1.47 gal/ft	
0	The second s	STATISTICS NOT	100 million (100 m		and the second se		and the second sec		

]	Low Flow	Samp	ling			ARI Farth Rose	M Gi	roup In	IC.			
	1 (1 many		115		T	Darth Aco	Arree Daign					
Project Name:	All Croc	Gw			Project Num	ber: 1807	16M	and the second line				
Well Number:	A10-03-6(5)	)-PZ			Date: 10-11-19							
Well Diameter	(in):				One Well Volume (gal):							
Depth to Produ	ict (ft):				QED Controller Settings:							
Depth to Water	(ft): 10.10				Flow Rate (mL/min)							
Product Thickn	ness (ft):				Length of time Purged (min)							
Depth to Botton	m (ft): 30,5	0			Condition of	f Pad/Cover		1				
				PURG	NG RECORI	D						
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) $\pm 3\%$	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments			
1221		10.646	17.40	6.74	0.541	1.63	48A					
1226		10.68	17.64	5,87	0.484	0.90	77.9					
1231		10,68	17.56	5.76	0.479	0.56	79.5					
1236		10,69	17.48	5.67	0,474	0.43	42.2					
				5 · · · · · · · · · · · · · · · · · · ·								
	1				·							
						-						
1000 March 1000			MO	NITOPIN	SAMPLER	FCORD		THE STREET	3.5			
Caused		Time (	allected	Doromy	tor/Ordor	Cont	niner	Domorruntiva	Collected?			
Sampl		Time C	onected	Parame	NOC:	2 40		reiservauve	Conecteur			
						3 - 40 m		HCI				
					TPH-DRO 2-1 L Amber nor			HCI				
	(1)	1			1-DRU SVOCa	2-1L 2.1T	Amber	none				
A10-03-0	15)-72			Oil &	Ground	2-11	Amber					
		124	1		Motals &	2- I L.	AIIIDEI	IICI				
		12'		Marcu	(total)	1 - 250 m	L Plastic	HNO3				
				Hexavaler	nt Chromium	1 - 250 m	L Plastic	none				
				Total	Cvanide	1 - 250 m	I. Plastic	NaOH				
					Metals &	1 - 250 m		NaOII				
				Mercury Field	(Dissolved) Filtered	1 - 250 m	L Plastic	HNO3				
				Hexavaler (Dis Field	nt Chromium solved) Filtered	1 - 250 m	L Plastic	none	-			
				FICIU								
				Field	РСВ	2 - 1 L	Amber	None				
			N	Hend Hatrix Spik	PCB e	2 - 1 L	Amber	None				
			N	Hora Hatrix Spik Duplicate	PCB e	2 - 1 L	Amber	None				
			N	Matrix Spik Duplicate	PCB e	2 - 1 L	Amber	None				
Sampled	By: TCV		Commer	Matrix Spik Duplicate	PCB e	2 - 1 L	Amber	None				

	TTABAA D. BABAA	I FREEERD	ARAHE	-	and the second second	1. NOR (%10)			
	Permane	nî We	IIS.		and the second second	Linth Brazi	anse ( nem	research smach	(ad = 0
E	NO CLOC L	Careford Contract	and the second second		Project Num	ber 1407	16M		
Project Hame	A10 CHOC (0)	No.			Date: 10-10	2-19			and the second sec
Well Fumber	140-039 (1)	- FC			Cone Well Vo	lume (gal):			
Well Lnameter	r (m)			N 144 1 144	OFD Contro	ller Setting			
Depth to Prod	uci (ii)	11112-012	and the second second		Elew Pate (r	nt (min)		Construction of the	1.10
Depth to Wate	er (R): 11. 48		-		HIGW Mate H	ne Runner! (	min		
Product Thick	mest (ft)				Lengin Of III	The rulges	in any	1	11111111111111111111111111111111111111
Depth to Both	om (R) 14,45	Nart-Weitzen	CHID AND STOCKED		Condition O	PROFUG			
				PURG	NG RECORD	This had	1		N
Tune	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0,1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFP (mV) ±10	Turbidity (14TU) ± 10% or < 5	Comments
1340		13.05	21,47	7.55	0.421	0.72	-52.2		
							<u> </u>		
							<u>├</u>		
		(							
							ļļ		
							<u> </u>		
					1				
	-		-	1					
					1				
and the second second states and		James and a state	MO	NITORIN	G SAMPLET	REORD			
0	1 75.	Timo	Collected	Param	eter/Order	Con	tainer	Perservative	Collected
Sam	ipie ID	Inne	CONCERCE	TCI	L-VOCC	3-40 1	nL VOA	HCI	
				TD	H-GRO	3 - 40 r	nL VOA	HCI	
				TP	H-DRO	2-11	Amber	none	
				TCT	-SVOCs	2-1L	Amber	none	
				Qil	& Grease	2-1L	Amber	HCI	
	20(0) 02	100	00	TAL	-Metals &	1 200	Diantio	LINIOS	
A10-0	57(17)-72	1 1	sample	Merc	ury (total)	1 - 2001	IL FIASUC		
	5	19:00	. I	Hexaval	ent Chromiun	1 . 250 .	nI. Plactic	none	
		colle	ected		(total)		LALL A LOUDER		
		0	-11-19)	Tota	l Cyanide	1 - 250 1	mL Plastic	NaOH	
			e e e e e e e e e e e e e e e e e e e	TAL	-Metals &			10.0	
		1		Mercur	y (Dissolved)	1 - 250 1	mL Plastic	HNO3	
				Field	d Filtered	-	-		
				Heveval	ent Chromun	a			
		1		(T)	issolved)	1 - 250	mL Plastic	none	
				Fiel	d Filtered	1			
					DAUD	2 11	Amher	hlone	
				) Acting Class	PCE	1 2	C MINDER	I HOUG	
				Mainx Sp	E.C.				
	International Institute of the	and the second data		Duplicat	G	and the second secon	and a started		Summers and
	T/V		Comme	Purch	ed dry @	1341			
Sample	ed By:					1			
	A	100000000000000000000000000000000000000		nal/fr - 3% I T	h = 0.163  cal/fr -	4" LD. = 0.65	3 gal/ft - 5" I.	D. = 1.47 gal/ft	
	Caping	orunne: 1	1.10 0.041	ft x	gal/ft =	(gal)		-	
		A REAL PROPERTY AND INCOME.	And in case of the local division of	IN THE OWNER	And the second se		and the second states of the s		

	Low Flow Perman	/ Samp ent We	ling Ils			ARI Earth Reso	M G1 nurce Engin	roup In neers and Cons	nC.			
Project Name:	AIO MUNO	2			Project Nun	nber: 1807	16					
Well Number:	A10-030	1(5)-F	52		Date: 10/15/19							
Well Diameter	(in): (	1-2-4/1			One Well Volume (gal):							
Depth to Produ	uct (ft):				QED Controller Settings:							
Depth to Water	r (ft): 12,5	0			Flow Rate (mL/min) 250							
Product Thickr	ness (ft):				Length of time Purged (min)							
Depth to Botto	m (ft):26. )	9			Condition o	f Pad/Cover	:	1				
				PURGI	NG RECOR	D						
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) $\pm 3\%$	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments			
1000	0	13.56	17.8	5.78	0.915	7.98	-21.5		M. turbid			
1005	0.3	13.62	17.9	5.58	0,911	6.12	-35.4					
1010	0.6	13.69	17.7	6.56	0,916	5.08	-44.0					
1015	0.9	17.77	17.7	5.55	0.915	4,64	-49.3					
1020	1.2	13.85	17.6	5154	0,916	4.35	-49.5					
1025	1.5		17.68	5.53	0,914	4.08	-50.7					
	Les State		МО	NITORING	S SAMPLE R	ECORD		20 - 20 - W				
Sampl	le ID	Time C	ollected	Parame	ter/Order	Conta	ainer	Perservative	Collected?			
		1630	<	TCL	-VOCs	3 - 40 m	L VOA	HCl				
010-039	5)-P7	100	5	TPH	I-GRO	3 - 40 m	L VOA	HC1				
Pilo -57				TPH	I-DRO							
				TCL-	SVOCs 2-1 L Amber none							
1		1		Oil &	Grease	2-1 L /	Amber	HCl				
			TAL-Mercu	Metals & rv (total)	1 - 250 m	L Plastic	HNO3					
			Hexavaler (to	t Chromium (tal)	1 - 250 m	L Plastic	none					
Tot				Total	Cyanide	1 - 250 m	L Plastic	NaOH				
				TAL-Mercury Field	Metals & (Dissolved) <b>Filtered</b>	1 - 250 m	L Plastic	HNO3				
				Hexavalen (Diss Field I	at Chromium solved) <b>Filtered</b>	1 - 250 m	L Plastic	none				
				P	CB	2 - 1 L .	Amber	None				
			N	Aatrix Spike	3							
				Duplicate								
			Commer	nts:								
Sampled	By: LMG		CHO	2								
	Casing V	olume: 1" I.	D. = 0.041 g	al/ft - 2" I.D. =ft x	= 0.163 gal/ft - <b>4"</b> gal/ft =	I.D. = 0.653 g	gal/ft - 6" I.D	. = 1.47 gal/ft				

	E CELEBRIC E CELEBRIC	ent We	lls.		Contraction of the second	Facili He So	une. France	ers and Consult	11.12			
					Project Number: 1507/CA							
Project Name	Alo choc	62	and an an and the state		Date: 10-19							
Well Humber	A10-040(P)	-PZ			One Well Volume (call)							
Well Diameter	· (in):	Concernance of the	TO OTHER DIE.		OLD Controllor Control							
Depth to Produ	uct (ft)					Tel Setting		Accession and a state				
Depth to Wate	r (ft): 9,55		CONTRACTOR OF		Flow Rate (n	iL/mm,						
Product Thicks	ness (ft):			-	Length of tin	ne Purgeo (	mmi)	1				
Depth to Botto	om (ft): 15.02				Condition of Paa/Lover							
				PURG	ING RECORD							
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFP (m <sup>-/</sup> ) ± 10	Tuioidity (14 U) ± 10% or < 5	Comments			
1151	ELUV PINALA pjeci ilame: Alo cooc ell l'lumber Alo odo (P) ell Diameter (in): pith to Product (R): pith to Elottom (R): 15:02 Time Volume Purged (gallons) 1151 Sample ID ALO - Odo (P) - PZ.	12.62	23.22	6.50	0,615	0.86	61.9					
		ļ										
							1					
		_	ļ									
			AND CHIDTLESIAN				1					
And the second se			MO	NITORIN	IG SAMPLE F	ECORD	P		C 11 . 1			
Sam	ple ID	Time	Collected	Paran	neter/Order	Con	tainer	Perservative	Collected			
	1	-		TC	L-VOCs	3 - 40 r	nL VOA	HCl				
		8		TP	H-GRO	3 - 40 r	nL VOA	HCl				
				TP	H-DR.O	2-1I	. Amber	none				
				TCI	L-SVOCs	2-1L	Amber	none				
	(0) 07	001	5	Oil	& Grease	2-1L	, Amber	HCI				
A10-040	(P)-PC	DI	5	TAL	-Metals &	1 - 250	nL Plastic	HNO3				
		last	Samala	Mer	cury (total)							
		1 YAD	mpre	Hexaval	ent Chromiun	1 - 250 1	mL Plastic	none				
		Collect	red		(total)	1 - 750	mI. Plactic	NaOH				
		10-1	(-19)	100	h (atolo ?	1 - 6.00	A REAL A REALIST					
				I AI Mercu	y (Dissolved)	1 - 250	mL Plastic	HNO3				
				Fiel	ici v moereoi							
				Hexava	ient unromiun	1 300	of Plastic	none				
					nssolved)	1 200	IIIL I IGOUV	INCHO				
				Fiel	ld Filtereo	1	and the second					
					PCB	2-1	L Amber	None				
				Matrix Sp	oike				·			
				Duplica	îe	entransition and	and the second second	Contract and the American State	L			
Sample	ed By: TCV		Comme	nis: Pwrg	red dry o	+ 115	3					
10-10-10-10-10-10-10-10-10-10-10-10-10-1				nal/8 - 39 1	n = 0.163  col/ft	2" I.T. = 0.64	53 gal/ft - 6" L	D. = ].47 gal/ft				
	Casing	Volume: 1"	1.1., = 0.041	gaunt 2" 1. ft x		(gal)	- 6					
0	and delivery of the second sec	and in case of the local division of the loc	AND	State of the local division of the local div	the second se							

<u>il</u>	Beleusu( Tana birnau	ent Wei	IIS		Re Sta	i and	es ser	ern and trans	off and			
er en					Duringet   Jurga	her (sa)						
Project lame	110 evoc	107			Froject Fam	1.0	Tem					
Vell Humber /	10-0406	SJ-PZ	and the second s		One Well Volume (sal):							
Well Diameter	(in)				OED Controller Cettings							
Depth to Produ	ct (ft) —				Eleve Date (m) (mm)							
Depth to Water	(2) 16.98				FIGH Rate (Internet)							
Product Thickn	ecc (ft) >	A			Length or th	ne Furgeo	ming					
Depth to Botton	n (ft): 28, 4	9			Concluion of	Levo Jovel						
				PURG	NC. RECORT	This days	1		1			
Time	Volume Purged	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Conductance (ms/cm)	Oxygen (mg/L)	OFP (m <sup>-</sup> /) ± 10	Turbidity (11TU) ± 10% or < 5	Comments			
	(genons)				± 3%	C.U.±	-112 [ ]	Name of Street of Str	7 1 0			
1300	0	16.98	20.3	6.26	1.400	2.07	100 00		Alas C			
1305	0.3	10.FL	21.3	6.31	1.191	- 39	-91.8		Geor			
1310	10.6	17.04	21.1	6.26	1.346	4.53	-106.5					
1315	0.7	17.07	21.2	6.20	1.316	4.02	-104.0					
1320	112	19.1	20.8	6.16	1,272	3. 10	101.2					
1325-	115		20,5	6.14	1.254	3.69	-996					
	1	1	1									
							<u></u>					
	1					<u> </u>			<u></u>			
	1	-										
			1	1								
			1	-			1					
	1		340	INITORIN	G SAMPLE F	CEC ORD						
	L. IN	Time	Collected	Param	eter/Order	Con	tainer	Perservativo	e Collected			
Samp		I HHC .	Concord	TC	LVOCC	3-40 -	nL VOA	HCl				
AIG-040/-	5)-PJ	1330		ישו קיד	H-CRO	3 - 40 1	nī, VOA	HCi	1			
110 0100	012	/ -		TP	H-DRO	2-11	Amber	none	1			
					SVOCS	2-1L	Amber	none				
				Oil	& Grease	2-1 L	Amber	HCI				
				TAL	-Metals &		F 323	LD LOS	1			
				Merc	curv (total)	1 - 250 i	mL Plastic	HINUS	1			
1				Hexaval	ent Chromium	1 0.50			4			
		1			(total)	1 - 200	IIIL Plastic	none				
		1		Tota	al Cyanide	1 - 250	mL Plastic	NaOH	_			
		1		TAL	-Metals &							
				Mercur	y (Dissolved)	1 - 250	mL Plastic	HNO3				
				Field	d Filtered							
				Hexaval (D	ent Chromiun issolved)	1 - 250	mL Plastic	none				
				Fiel	d Filtered				1			
					PCB	2-11	L Amber	None				
				Marrix Sm	ike	all and the second						
	and the second statement			Duplicat	e		and the second					
			Coraro	ents:		فالمست طلاحيا اللاران		and the second second				
Complex	Ry Mr		Junt									
Pornhier	» ~ J.		CVG	C								
	Casing	Volume: 1"	I.D. = 0.04	l gal/ft - 2" I.E	), = 0.163 gal/fi - 4	₽" I.D. = 0.65	53 gal/ft - 6" I.	D. = 1.47 gal/ft				
			\=	ft ×	gal/ft =	(gal)	Contract of the second					

V UNILL	NA RIFUS COLLON	HARMENTER The States	HC.		No. Anthe	a sesto Sachdom	in the	nes and Craised)	*F18		
M 1	JR EERCEEN	enc vv S	n A Gr					Contraction of the second	and the second second		
Project Hame: AIO	-041(P	)-PZ A	o cvoc	GW	Project Numb	per 1807	16M		and the second second		
Well Humber AN	041 (P)	-PZ			Date: 10-10-19						
Well Diameter (in)					One Well Volume (gal):						
Depth to Product (R	):				QED Controller Settings						
Depth to Water (?)	6.64		Contraction of the second		Flow Rate (m	iL/mm)					
Product Thickness (	<b>行</b> )		Carlos of the other		Length of tin	ne Purged (	min)				
Contact Potters (f)	114 70				Condition of	Pad/Cover	a second second second	1			
Disputito Domont (1)	/11/0		STONE COLOR	PURG	ING RECORD	)					
Time (	Volume Purged gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ±03	OFF (m <sup>7</sup> /) ± 10	Tuipidity (NTU) ± 10% or < 5	Comment		
1247		6.92	22,26	7.76	0.593	0.50	32.5				
1752		6,94	22,84	7.46	0.516	0.26	30.6				
1257		12 02	22.90	7,46	0,503	P.36	25,9				
(20)		7.05	23.04	7.43	0.499	0.30	25.3				
				A DETENDED	C SAMPLE D	PE DRD	1	<u> </u>			
			MO	INTORIN	IC SAMPLE N	Com	inimor.	Domenuative	Collecte		
Sample II	)	Time	Collected	Paran	neter/Order	Con	amei	I CISCI VALIVO	00110010		
				TC	L-VOCs	3 - 40 m	T VOA				
				1.5	H-GKU	<u>3 - 40 n</u>	(IL VOA	HC1	and the state in the second		
				TP	H-DRO	2-11	Amber	none			
			-	TC	L-SVOCs	Z-1L	Amber	NOUC			
	50	130	7	Oil	& Grease	2-1L	Amber	noi			
A10-04/19)	)=72	0		TAL	Metals &	1 - 250 r	nL Plastic	HNO3			
			0000	Henaval	cury (total) ent Chromium (total)	1 - 250 r	nL Plastic	none			
		1		Tot	al Cyanide	1 - 250 1	nL Plastic	NaOH			
				TAI Mercur Fiel	Metals & y (Dissolved) d Filtered	1 - 250 1	nL Plastic	HNO3			
				Hexaval (D Fiel	lent <b>Chromiun</b> vissolved) Id Filtered	1 - 250 1	mL Plastic	none			
					PCB	2-11	Amber	None			
			in the second		and the second s						
				Matrix Sp	ake			and the second second second second	an internet and the second		
				Matrix Sp Duplica	ake te						
Sampled By	: Tcv		Comme	Matrix Sp Duplica ents:	ike						

	ITIABAA N. HABAA	и гасствейн	HEARE				14 <u>1</u> 21	1.1			
	Perman	enî We			a star star star	a mure the sa	nus Englist	ous and a cuso	(I-av)		
Provect Llorne	NA AVAC				Project 1 Jum	ber KAJ/	m				
Well blumber	Allo Cloc				Date: 10/19	-119					
Wolf Friender	110-0711	S) PE			One Well Vo	olume (gal)					
Well Litameter				and the second s	OED Contro	Her Setting	5				
Depth to Plot	$\alpha(2) (1) - 1$			Construction of the local division of the lo	Flow Pate (mL/min) 200						
Depth to Wate	14.00	*		- Salar S	Length of th	me Purged (	min)				
Product I hick	nect (it)	5		NUCLEAR AND DESCRIPTION	Condition o	Fad/Cover		1			
Depth to Botto	m (n) 26, 4			eneci	NC RECORT	)					
Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	OFF (m <sup>-</sup> /) ± 10	Turbidity (14TU) ± 10% or < 5	Comments		
045	0	14.22	20.6	5.56	0.810	8.24	32.0		tub.d_		
1645	0.3	15.22	19.7	4.88	10,768	5.56	81.7		clear		
1013	0.1	16.22	18.8	4.66	0.763	4.76	107.0		clear		
1050		10 20	18.4	4 31	10789	4.31	116,91				
1055	112		18 4	4.41	0.802	4 04	120.5				
100		-	lic W	450	10,825	3.85	122.0				
105		-	10,7	- Ind Q							
		-		and the second s			1				
						1					
					1		1				
									1		
	_	_					11				
									1		
				ATT LOO IN	CRAMPLES	I CORD					
			WIT	INTORIN	1 10 - 3	Con	vainer	Decemptive	Collected		
Sam	ple ID	Time	Collected	Param	eter/Order		T TWO A	I CISCIVALIAS	. Controla		
		111.4		TCI	L-VOCs	3-401	T VOA	EICI	-		
en le	1-2-2	110	)	TP	H-GKU	3-401	A roluor	1101			
A10-041C	5) 12			1.5	H-DRO	2-11	Alling	none	-		
				TCL	-SVUUS	2-11	Amber	HCI			
				- UNI C	Metala ?		A Z ZINDOL	11.01	1		
				1 Pol	my (total)	1 - 250 1	mL Plastic	HNO3			
				Hexavale	ent Chromiun	1 - 250 -	mI. Plactic	none			
		1		(	(total)	1 - 200	HALL & LOUDELS	UAILO			
		l.		Tota	l Cyanide	1 - 250 1	mL Plastic	NaOH			
				TAL	-Metals & y (Dissolved)	1 - 250 :	mL Plastic	HNO3			
				Hexaval (Di Field	ent Chromiur issolved) d Filtered	n 1 - 250	mL Plastic	none			
					PCB	2-11	L Amber	None			
	and the second second second second			Matrix Spi	ike						
			In case of fear and the local	T 11 1	C.				1		
				Duphcan	6	and the second s	and the other states in the local division of the	The second se			
			Comm	Duplication in the second seco	C .		and the second second				
Sample	ed By: LMG		Comm	Duplication in the second seco	6						
Sample	d By: LMG		Comm	Duplication of C	0						
Sample	d By: LMG Casine	Vojume: 1°	Comm QV I.D. = 0.04	Duphcat ients: O C 1 gal/ft - 2" I.D	e. = 0.163 gal/ft -	4" I.D. = 0.65	3 gal/ft - 6" I.	p. = 1.47 gal/ft			

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