Jefferson County Foundation, Inc.

November 5, 2024

Jefferson County Planning Commission 116 E Washington St. Charles Town, WV 25414 Via Email

Regarding: Public Workshop: Mountain Pure Concept Plan for a Major Site Development

Dear Planning Commissioners,

Please accept the following comments on the Mountain Pure Water Bottling Facility Concept Plan. Please either reject the concept plan because there is not enough information to determine if the land use is a permitted use, or place conditions on your direction to continue to the site plan stage that limit the applicant to what has been described in the current concept plan.

Preferred Action: Reject the concept plan as submitted for the reason that it cannot be determined if the land use is permitted in this zone.

Alternatively: Place conditions on your direct to continue to the site plan stage that require:

- 1. Groundwater from Jefferson County shall not be used for any use related to this development or its future use including but not limited to bottling.
- 2. All current and future activity related to this development shall be contained on the subject property described in the current application with the exception of the activity related to building an access road.
- 3. A road should be built at the expense of the developer that provides direct access from the facility to route 51 that is capable of accommodating all traffic to and from the subject facility.

Based on Section Sec. 24.121 of the Subdivision and Land Development Regulations "Major Site Plan Concept Plan – Direction" section A. "Direction" and section B. "Conditions" the Jefferson County Planning Commission has the authority to place requirements as conditions on the direction that it gives an applicant when the Planning Commission directs the applicant to continue to the Major Site Plan stage. These conditions need to be based in the zoning ordinance and not reduce the density of the development below that allowed in the zoning ordinance. We believe that the three conditions we are requesting are firmly based in the zoning ordinance and regulations as described below.

Not enough information to determine if the land use is permitted.

The concept plan does not contain enough information to determine if the land use is a permitted use, a conditionally permitted use, or a non-permitted use. It cannot be determined from the

<u>application where the water for bottling is being sourced.</u> Because this is a water bottling plant, the source of water for bottling is integral to understanding the land use.

It is our understanding from reviewing the documents from the Berkely County Public Service and talking with the general manager of the Charles Town Utility Board that the development will receive water for domestic purposes (sinks, toilets, showers, cooking) from Berkely County Public Service Water District and no water will be supplied to the development by Charles Town Utility Board for any purpose at this time.

If a utility does not supply the water for bottling, then the water may be sourced from surface water on the subject property or from groundwater extraction. It is unknown if the flow of the surface water course on the subject property Turkey Run would provide the water needed for this size bottling plant or how this would affect the downstream users of the Opequon Creek of which Turkey Run is a tributary. This 1,000,000-square-foot facility appears to be one of the largest non-alcoholic bottling facilities in the United States,¹ and would reasonably be expected to use a large amount of water.

<u>Groundwater extraction is a prohibited use in all Zones in Jefferson County.</u> Section 1.3 D. of the Jefferson County Zoning and Land Development Ordinance sates, "If a proposed use is not one in the list of the principal permitted or conditional uses in each zoning district, it shall be prohibited as though it was included in the list of prohibitions. Applicants desiring inclusion of a use not specifically permitted in this Ordinance may apply for a text amendment, following the provisions outlined in Article 12 of this Ordinance." Groundwater extraction is not contemplated by the comprehensive plan and therefore based on Section 1.3 D. is a prohibited use in all zones. Therefore, the applicant should be prohibited from using groundwater extraction to source the water used for bottling. If this is the source the applicant plans to use, this is a prohibited use and the concept plan should be rejected.

Because the source of water for bottling cannot be determined from the submission and one or more of the possible sources would make this a prohibited land use in this zone under the Jefferson County Zoning and Land Development Ordinance, the concept plan should be rejected as submitted. In the alternative, please place conditions on your direction to continue to the site plan stage. Groundwater extraction is a prohibited land use based on the Jefferson County Zoning and Land Development Ordinance. Therefore, please add a condition requiring, groundwater from Jefferson County shall not be used for any use related to this development or

¹ Nestle, Coca-Cola, and PepsiCo are the largest non-alcoholic beverage companies in the United States (<u>https://finance.yahoo.com/news/20-biggest-non-alcoholic-beverage-161621901.html</u>). Nestle's new water bottling plant that produces Deer Park and Pure Life branded water is 200,000 square feet, just 20% the size of this proposed plant (https://www.fooddive.com/news/nestle-waters-40m-sc-bottling-plant-plans-

unveiled/403230/#:~:text=The%20approximately%20200%2C000%2Dsquare%2Dfoot,50%20jobs%20for%20the% 20community.). The Coca-Cola company bottles Dasani in a 262,000-square foot bottling facility, and it buys the water for bottling from a municipal water source (https://www.theguardian.com/us-news/2020/apr/23/pepsi-coke-bottled-water-consumer-reports). PepsiCo is building its largest bottling facility ever in the United States at 1.2 million-square-feet, where it will produce its flagship drink Pepsi with at least 6 other products. (https://www.fooddive.com/news/pepsico-beverage-plant-colorado/627315/)

its future use including but not limited to bottling. This simply requires the applicant to adhere to the information that they have presented in the concept plan.

The application may not include all properties that will be utilized for the development.

Review of the tax map reveals that the applicant also owns several parcels up stream on Turkey Run of the subject property, including one property where Lake Louise is located. Based on County records, the applicant drilled two wells near Lake Louise in 2022.

The applicant had one of these wells evaluated by an engineering firm to evaluate if the well could produce 1.728 million gallons a day of water (Exhibit B, page 4). This report indicated in the introduction that the well would serve a new development but did not describe the well further. According to the deed book (Book 1256, page 360), the applicant also obtained a deed of easement access to these wells and a water line from the wells to Route 51.

Based on the above information, we are concerned that applicant may plan to use these wells for groundwater extraction to obtain water for bottling. This would make these properties part of the development and, therefore, these properties should be included in the site plan based on Section 24.119 of the Subdivision and Land Development Regulations. However, these properties were not included in the concept plan.

For these reasons, we request that **<u>if</u>** you give the company direction to continue to the Site Plan Stage, that you place a condition on your direction requiring all activity related to this water bottling facility development shall be contained on the subject property described in the current concept plan application with the exception of the activity related to building an access road.

Access to the facility has not been adequately addressed.

Currently the only vehicular access to the facility is through the downtown of the Middleway Historic District or down several small rural roads for 12 to 13 miles before reaching a major road. We are concerned that this will reduce safety in both downtown Middleway and on these small rural roads. In addition, we are concerned that the additional 4750 trips a day the development will generate to and from the facility and the size and weight of these vehicles that the historical buildings and other assets in the Middleway Historic District will be damaged.

For these reasons, if you decide to give direction to the applicant to continue on to the site plan stage that you place a condition on your direction that the company should build a vehicle bypass around the Middleway Historic District that can accommodate all of the vehicle traffic to and from the plant.

Additional Concerns

While we believe that groundwater extraction is a prohibited land use in all zones, we are additionally concerned that the effects of such extraction especially at the rates described in the engineering report of the study performed by Triad Engineering, Inc. (exhibit B) would have negative impacts on water availability in the region and may increase the rate of sinkhole

development. These impacts would have an outsized impact on the agricultural land uses surrounding the facility. This concern led us to have the report evaluated by an expert hydrogeologist with expertise in karst, Dr. Chris Groves. He provided the communication attached here as Exhibit A. Dr. Groves has been previously qualified as an expert hydrogeologist at the Department of Environmental Protection Environmental Quality Board and his credentials are outlined in his communication. He finds that the current report does not consider that the groundwater extraction well is in karst hydrogeology and therefore the findings do not accurately represent the effects of drawing this amount of water from this well in this type of karst hydrogeology.

We have included this information because we are concerned that during the public workshop the applicant will present this document as evidence that our concerns regarding the use of groundwater should be dismissed. First and foremost, these concerns should not be dismissed because regardless of the impacts groundwater extraction is prohibited in all zones in Jefferson County based on the Jefferson County Zoning and Land Development Ordinance. Second, these concerns should not be dismissed based on this engineering report because the engineering report is not appropriate to evaluate the effects of such groundwater extraction in this location.

Thank you for considering these comments.

Best regards,

Christine Wimer President, Jefferson County Foundation, Inc. Exhibit A

November 5, 2024

Dr. Christine Wimer Jefferson County Foundation, Inc. PO Box 460, Ranson, WV 25438

Dear Dr. Wimer,

At your request I have reviewed available technical information regarding the Concept Plan that has been submitted by Sidewinder Enterprises LLC for the Mountain Pure water bottling facility proposed for Jefferson County, West Virginia.

The purpose of my review, with conclusions summarized in this letter, is to evaluate how well the potential for impacts to the county's water resources associated with operation of this water bottling facility have been addressed, based on a review of existing information. It is limited to technical (hydrogeology) considerations, as I make no claim to have expertise in either legal matters nor detailed familiarity with West Virginia's environmental regulations. Although I have been hired by the Jefferson County Foundation, Inc. to undertake this evaluation, my task is to objectively consider hydrogeologic conditions in the vicinity of the proposed facility. I have not manipulated information to have it reflect any pre-determined outcome, and my contributions to this process, and all of my professional activities, reflect that philosophy. My comments are accurate and truthful to the best of my experience and abilities.

My overall conclusion is that the potential for adverse impacts to landowners in the vicinity of the site has not been adequately addressed in the September 4, 2024 Mountain Pure Concept Plan/Major Site Plan and that an appropriate technical evaluation should be required before the project moves forward. This is based on primarily on two observations: 1) the Concept Plan itself simply describes the intent to build a one million square foot bottling facility, but makes no mention of how much water will be required, where that water will be obtained, and what the potential impacts of obtaining this water might be; 2) a separate, 2022, evaluation commissioned by Sidewinder Enterprises and completed by Triad Engineering Inc. (and herein cited as Triad Report 2022) suggests that water from the nearby Turkey Run Spring Site (including Well MW-B) will be the source. While that report concludes that the site will be adequate to meet the proposed potable water demand of 1.728 million gallons per day (Triad Report 2022, p. 1), the analysis uses methods, particularly with respect to modelling and water guality evaluation, more suitable for porous medium aguifers than the limestone karst aguifers that are well developed within Jefferson County (e.g. Beiber 1961; Davies 1965; Hobba 1981; Kozar et al. 1991; Jones 1991, 1997; Kozar et al. 1991; Kozar 2002; Evaldi et al. 2009; Doctor and Doctor, 2012; Maloy and Carter, 2012). These are groundwater flow systems developed through dissolution of soluble limestone bedrock within which water flows preferentially through dissolved conduits and fractures, as the well data in the Triad Report (2002, Appendix B) make obvious, and yet much of the analysis in the report treats the flow as if it was in a porous medium. This is more akin to water flowing through sand, where the spaces through which the water flows are very uniform and evenly distributed.

I am a licensed Professional Geologist in Kentucky, Tennessee and Virginia (West Virginia does not have a Professional Geology registration) with more than 40 years of professional

experience in the study of surface and underground water in a wide variety of environments throughout the world, with an emphasis on karst landscapes and aguifers. I earned a BS degree in Geology (1984), and an MS degree in Geography (1987) from Western Kentucky University. In 1993 I received a PhD in Environmental Sciences from the University of Virginia (Geology track) with an emphasis in hydrogeology, geochemistry, and geomorphology and where my PhD dissertation Early Development of Karst Systems led to a series of papers in the highly-ranked journal Water Resources Research that have now collectively been cited over 450 times. I currently serve as University Distinguished Professor of Hydrogeology at Western Kentucky University, where I have written or coauthored 38 peer-reviewed journal papers or book chapters, 1 book, over 50 conference proceedings, technical reports, book reviews, or fieldtrip guides, as well as given more that 175 scientific presentations at international, national, regional scientific conferences or university seminars. I have published research in the leading professional water-related, peer-reviewed journals including Journal of Hydrology, Groundwater, Water Resources Research, and Hydrogeology Journal and leading geomorphology journals including Earth Surface Processes and Landforms and Geomorphology. I have served as an Associate Editor for the Journal of Hydrology and Hydrogeology Journal. I have been responsible for hydrogeology-related research, service or analysis under contracts, grants or other cooperative efforts for federal agencies that include the Bureau of Land Management, National Park Service, US Department of Agriculture, US Environmental Protection Agency, US Forest Service, US Department of Energy, US Army Corps of Engineers, the US Agency for International Development, and the US Department of State.

Since 1995 I have been active with participation in and leadership of five water-focused United Nations scientific programs within the United Nations Educational Scientific and Cultural Organization (UNESCO) International Geoscience Program as well as serving as an invited member of the Karst Commission of the International Association of Hydrogeologists. In these efforts and other research projects I have undertaken hydrogeological fieldwork in 25 countries. In 2017 I travelled to Beijing's Great Hall of the People where China's President Xi Jinping personally presented me with the International Cooperation in Science and Technology Award of the People's Republic of China, that country's highest award for foreign scientists, for "great contributions to China's hydrogeology and karst geology fields."

In 2002 I evaluated groundwater flow and related environmental issues at another geologically similar site in Jefferson County and at the time had an opportunity to become familiar with the area's landscapes, hydrogeology, and groundwater flow (Groves 2022).

Although I have reviewed a number of documents and relevant scientific literature in the current analysis, my comments herein are primarily based on the September 4, 2024 Mountain Pure Concept Plan/Major Site Plan (Concept Plan 2024) and the April 28, 2022 Report of Hydrogeological Assessment, Turkey Run Spring/MW-B (Triad Report 2022).

Perhaps the most relevant environmental issue concerns the impacts, presuming that the MW-B well is the primary source of water for the facility (and if this assumption is incorrect, there is obviously much less certainty about future impacts), of lowering of the water table caused by pumping and impacts on adjacent landowners. The report uses several methods to estimate impacts on the water table, and pumping tests provide results operating under

the conditions present during the test. However, the commonly-used methods of using mathematical models to simulate groundwater flow conditions across space and into the future work only as well as the data fed into the models match the real-world conditions that the work intends to simulated. In an easy to understand example, a diagram showing the bedrock conditions in well MW-B (Figure 1, Triad Report 2022, Appendix B) makes clear, consistent with the description in the text, that the spaces for water to flow are within discrete, fractures and perhaps weathered zones that the report describes (e.g. Triad Report 2022, p. 3) as "Relatively major water bearing zones" separated by what might be called (using my language) "not water bearing zones" Yet, in describing input to the mathematical simulation, "The model was constructed with one layer, and a saturated thickness of approximately 300 feet was assumed". The science of groundwater modelling is complex, but the disparity between the model and the real world here is not.

There are several potential negative impacts of lowering the water table beneath adjacent properties. For one, there are no records of where the analogous "water bearing zones" are in other wells, and whether the drawdown may cause shallower ones to become dry. Another less obvious, but very real issue for Jefferson County is the development of sinkholes. These can be triggered by water table lowering and the resulting loss of buoyant support. This is another important issue in karst hydrogeology not mentioned in the Triad (2022) analysis, while sinkholes are a widespread hazard in Jefferson County (Figure 2).

I appreciate the opportunity to comment on this project, and conclude that to better understand the potential impacts beyond the actual properties of the facility, that analyses build in a required level of sophistication to realistically represent the actual conditions present.

Sincerely,

Clum

Chris Groves, PhD, PG University Distinguished Professor of Hydrogeology Western Kentucky University

Triad Engineering, LLC 4999 Louise Drive Mechanicsburg, PA 17055					WELL N	WELL NUMBER MW- PAGE 2 OF				
CLIENT Sidewinder Enterprises LLC. PROJECT NUMBER 03200377				LLC.	PROJECT NAME _Turkey Run PROJECT LOCATION Russell Way, Kearneysville, WV					
SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		MATER	RIAL DESCRIPTION	wi	ELL DIAGRAM			
		X		Highly Weathered Limestone with	Fracture					
1.00			6.5							
1.143			39.0	Gray to dark gray Limestone	479.0		2			
	R.	<u>L</u> T					X			
1.1			46.0	Lighty Weathered Limesterne	472.0					
		10		Highly weathered Limestone			2			
			48.0	Grav to dark grav Limestone	470.0		×			
1		H		Gray to dark gray Linestone						
1.1			÷.,							
1.1		\Box	Sec.	Fracture			X			
10.00			52.0		466.0		8			
21	1. 2									
				Fracture			8			
1.2			57.0	A CONTRACTOR OF A CONTRACTOR O	461.0		×			
							8			
2111		ЦĻ								
21.19		ГĻ.	12.20	Fracture						
11	1.00		01.0	Highly Weathered Limestone	457.0		×			
1.1	1	2.8	63.0		155.0					
11-11		1	05.0	Gray to dark gray Limestone	455.0		2			
			65.0		153.0		X			
) en	100 100 -0	1	Fracture						
1.1		рţ	00.0	Gray to dark gray Limestone	452.0		2			
1		ГĤ					×			
		T_	5							
							2			
		F-					X			
		Η								
		H					2			
1.1							X			
						WZZE DZ				
	T <u>Sidev</u>	4999 L Mecha T Sidewinder	4999 Louise Mechanicsbu	4999 Louise Drive Mechanicsburg, PA	4999 Louise Drive Mechanicsburg, PA 17055 T Sidewinder Enterprises LLC. ECT NUMBER 03200377 MATER 03200377 MATER 03200377 MATER 039.0 MATER 39.0 Side of the second seco	Inde Engineering, LLC. PROJECT NAME Turkey Run I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. PROJECT LOCATION Russell Way, Keameysv I Sidewinder Enterprises LLC. I Sidewinder Enterprises LLC. I Sidewinder Enterprises LLC. I Sidewinder Enterprises LLC. <	Initial Engineering, LLC PROJECT NAME Turkey Run State Source Drive PROJECT LOCATION Researce Way, Kearneysville, WV Wethings 90 90 MATERIAL DESCRIPTION WI Wethings 90 90 MATERIAL DESCRIPTION WI Wethings 90 90 90 MATERIAL DESCRIPTION WI Wethings 90 90 90 420 4720 Wethings 90 90 67ay to dark gray Limestone 4720 4720 Wethings 90 67ay to dark gray Limestone 4700			

Figure 1. Portion of the well log for Well MW-B showing discrete water bearing zones common in limestone karst aquifers (Triad Report 2022 Appendix A).

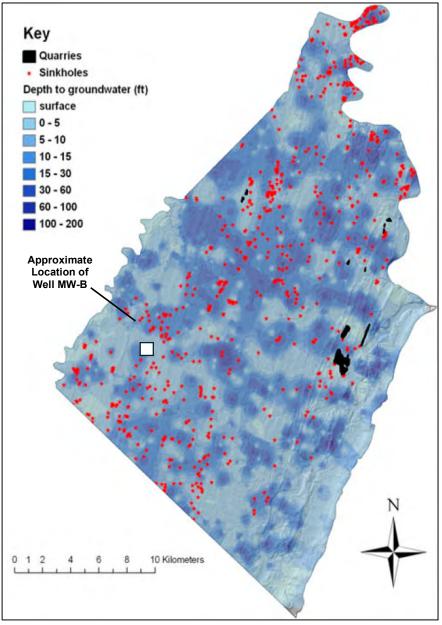


Figure 1. Sinkholes in Jefferson County showing approximate site of the facility (may from Doctor and Doctor, 2018).

References

Beiber, P.B. 1961. *Ground-water Features of Berkeley and Jefferson Counties, West Virginia*: West Virginia Geological Survey Bulletin 21, 79 p.

Davies, W. E. (1965). Caverns of West Virginia (Vol. 19). Biggs-Johnston-Withrow.

Doctor, D.H. and K.Z. Doctor. 2012. Spatial analysis of geologic and hydrologic features relating to sinkhole occurrence in Jefferson County, West Virginia. *Carbonates and Evaporites*, *27*(2), 143-152.

Evaldi, R.D., K.S. Paybins, and M.D. Kozar. 2009. *Hydrogeologic Factors Affecting Base-Flow Yields in the Jefferson County Area, West Virginia, October-November 2007*: U.S. Geological Survey Scientific Investigations Report 2009-5145, 13 p., 1 plate.

Groves, C. 2022. Karst Hydrogeology and the Potential for Associated Environmental Risks Resulting From the RAN 5 Project, Jefferson County, West Virginia. Report prepared for the Jeffesron County Foundation, 32 p.

Hobba, W.A., Jr. 1981. *Ground-Water Hydrology of Jefferson County, West Virginia*: West Virginia Geological Survey Environmental Geology Bulletin 16.

Jones. W.K. 1991. The carbonate aquifer of northern Shenandoah Valley of Virginia and West Virginia. *Proceedings of the 1991 Appalachian Karst Symposium*, p. 217-222.

Jones, W.K. 1997. *Karst Hydrology Atlas of West Virginia*. Karst Waters Institute Special Publication 5, Karst Waters Institute, Charles Town, West Virginia.

Kozar, M. D. 2002. Synopsis of Karst Investigations Conducted in Jefferson and Berkeley Counties, West Virginia, by the US Geological Survey, West Virginia District.

Kozar, M.D., W.A. Hobba, Jr., and J.C. Macy. 1991. *Geohydrology, Water Availability, and Water Quality of Jefferson County West Virginia, With Emphasis on the Carbonate area*. US Geological Survey US Geological Survey Water-Supply Paper 1899-K.

Maloy, M. and A. Carter. 2012. *County-Wide Groundwater Assessment Jefferson County, West Virginia.* Jefferson County Commission.

Exhibit B

▶ TRIAD Listens, Designs & Delivers



April 28, 2022

Sidewinder-Enterprises, LLC. Attn: Sean Masterson and Jeff Fischbeck 4340 Von Karman Ave #380 Newport Beach, California 92660

Subject: Report of Hydrogeological Assessment *Turkey Run Spring/MW-B Middleway, West Virginia* Triad Project No. 03-20-0377

Dear Mr. Masterson and Fischbeck:

Enclosed is the *Hydrogeological Assessment Report* for the above-referenced property. If you have any questions or need additional information, please feel free to contact the undersigned.

Sincerely,

Triad Engineering, Inc.

Michael Yamrick, P.G. Project Geologist

Nicholas J. Wolfe, P.G. Regional Manager/Environmental Services Manager

1075-D Sherman Avenue | Hagerstown, MD 21740 9: 301.797.6400 1: 301.797.2424 www.triadeng.com

Hydrogeological Assessment Report

Turkey Run Spring/MW-B Middleway, West Virginia



Triad Project No.: 03-20-0377

Prepared for:

Mr. Sean Masterson and Jeff Fischbeck Sidewinder-Enterprises, LLC. 4340 Von Karman Ave #380 Newport Beach, California 92660

Prepared By:

Triad Engineering Inc. 1075-D Sherman Avenue Hagerstown, Maryland 21740



◆TRIAD Listens, Designs & Delivers™

www.triadeng.com

SECT	ΓΙΟΝ	PA	AGE			
1.0						
2.0	SITE L	OCATION	1			
3.0	GEOLO	DGIC AND HYDROGEOLOGIC SETTING	2			
4.0	WELL	DRILLING	3			
5.0	DOWN	-HOLE VIDEO LOGGING	4			
6.0	AQUIF	ER TESTING OPERATIONS AND RESULTS	5			
	6.1	Pumping Well and Observation Points	5			
	6.2	Step-drawdown Test	7			
	6.3	Aquifer Test Operations	7			
	6.4	Aquifer Test Observations	8			
	6.5	Aquifer Parameter Estimation	9			
	6.6	Well MW-B Yield Estimation	9			
7.0	SAMPL	ING COLLECTION AND ANALYSIS	9			
	7.1	Well MW-B Sampling Results	10			
	7.2	Lake Louise/Spring Sampling Results	11			
8.0	RECHA	ARGE EVALUATION	. 12			
9.0	AREA	OF IMPACT EVALUATION	. 13			
	9.1	1,200 gpm Flow Model	13			
	9.2	2,000 gpm flow model	14			
	9.3	Theis Method Drawdown Prediction Calculations	15			
10.0	CONCI	LUSIONS AND RECOMMENDATIONS	. 16			
LIST	OF TAE	BLES AND APPENDICES				
Table Table Table	1	Summary of Well Pumping Test Data Summary of Stream Flow Monitoring				

TABLE OF CONTENTS

List of Appendices

- Appendix A Test Well Location Plan, Topographic Map, Wetland Delineation Plan, and Geologic Map
- Appendix B
- Well Logs Discharge Apparatus Hydrographs Appendix C
- Appendix D
- Appendix E Appendix F Appendix G
- Laboratory Analytical Results USGS StreamStats Report Flow Model Results, Predicted Drawdown Calculations, and Recharge Calculations

1.0 INTRODUCTION

This Report presents the results of the Hydrogeological Assessment performed at the Turkey Run Spring site, located in Middleway, WV. Triad Engineering, Inc. (Triad) understands that the site is proposed for development and that a new potable water source is needed. Additionally, it is understood that there is one existing on-site public water supply well located at the north end of the property (PW-1), which is indicated on the Test Well Location Plan attached to this Report in **Appendix A**. The anticipated potable water demand associated with the proposed development is approximately 1.728 million gallons per day (gpd), or about 1,200 gallons per minute (gpm).

The purpose of this work is to evaluate the potential for developing a potable water supply for the site. This assessment included the drilling and installation of two new test wells (MW-A and MW-B), preliminary aquifer testing of MW-B, groundwater quality sampling/analysis of MW-B and the Spring, recharge analysis associated with the proposed potable water supply, and an area impact evaluation. The results of this assessment are summarized herein and indicate that Well MW-B (which was drilled as part of this assessment) is suitable, with appropriate treatment measures, for potable use with a sustainable yield of about 1.728 million gpd or about 1,200 gpm.

2.0 SITE LOCATION

The Site includes approximately 13.22 acres and is located southeast of Middleway in Jefferson County, West Virginia and is currently the site of a mobile home park. The Site consists of Turkey Run Spring and Lake Louise, forested wetlands, and small portion of uplands. The general topography of the Site is predominately flat. Based on review of the 2019 U.S. Geological Survey (USGS) Middleway 7.5-minute quadrangle, surface elevations at the Site range from approximately 512-530 feet above mean sea level (M.S.L). A topographic map is included in **Appendix A**. Turkey Run originates east of Lake Louise; however, during field investigations this section of Turkey Run was dry. At Lake Louise, Turkey Run is prominent and flows in a westerly direction towards the 260-

acre unoccupied manufacturing facility currently owned by Sidewinder Enterprises, LLC., and then continues west towards the Opequon Creek.

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

Based on the 1990 West Virginia Geological and Economic Survey, Map-WV35, Titled, "Geology of Berryville, Charles Town, Harpers Ferry, Middleway, and Round Hill quadrangles, Jefferson County, West Virginia", the Site is underlain by the Rockdale Run Formation. The Rockdale Run Formation consists of "gray to light gray algal limestone with interbedded aphanitic limestone and dolomite; channel fillings with fossil fragments, reworked limestone, and oolites common; chert occurs throughout, several characteristic fossil zones with Stromatolite chert "heads" near base. This unit ranges from 2,400-2,750 feet thick". A *Geologic Map* is included in **Appendix A**.

1995 USGS Report entitled "Geohydrology, Ground-Water Availability, and Ground-Water Quality of Berkeley County, West Virginia, with Emphasis on the Carbonate Rock Area" was reviewed. This report documents that an approximate 10 inches per year (in/yr) water recharge to the subsurface within a 60 square mile study area located in Berkeley County based on an average of about 40-inches per year of precipitation. A Drought-year precipitation total of about 24.7-inches has an effective recharge of approximately 6.14-inches per year. The 1995 USGS Report data were collected between the years 1989 and 1990. This recharge rate was estimated by using a hydrologic budget approach and calculating the discharge of the groundwater basin area and completing an extensive study of stream and spring discharges. However, for the purposes of this report an estimated percentage of precipitation based on the 1995 recharge rate will be utilized for the site-specific recharge rates.

4.0 WELL DRILLING

As part of this evaluation, two approved drilling locations indicated on the Test Well Location Plan were explored. Negley's Well Drilling (Negley's) performed well drilling and installation operations, by making use of an air rotary drilling rig. The newly drilled locations are Wells MW-A and MW-B as indicated on the Plan. Well logs completed for these wells are attached to this Report in **Appendix B**. The following bullets briefly summarize information regarding the newly drilled locations.

- Well MW-A was drilled to a depth of approximately 255 feet below existing ground surface (ft bgs); 6-inch inside diameter (I.D.) steel casing was installed and tremie-grouted to approximately 121 ft bgs. Relatively major water bearing zones were encountered at approximately 141-150, 155-156, 163-165, and 167-169 ft bgs. Cumulative driller preliminary air-lift yield was estimated to be upwards of about 150 gpm or more. Due to the presence of mud in the borehole, MW-A was used only as a monitoring well. The static water level measured on 3-6-2022, was 5.75 ft bgs.
- Well MW-B was drilled to a depth of approximately 225 ft bgs, 6-inch I.D. steel casing was installed and grouted to approximately 78 ft bgs. Well MW-B was initially drilled as a 6-inch I.D. pilot hole, and subsequently reamed to 10-inch I.D., based on apparent relatively high production potential. Major water bearing zones were encountered at about 87-88, 118-119, and 173-187 ft bgs. Cumulative driller preliminary air-lift yield was estimated to be approximately 2,000-4,000 gpm. The static water level measured on 3-6-2022, was 5.49 ft bgs.

Well MW-B was developed such that discharge water was free of cuttings and sediment. It is noted that MW-A was not able to be developed appropriately due to the presence of mud in the borehole. Wells MW-A and MW-B were also fitted with locking well caps.

5.0 DOWN-HOLE VIDEO LOGGING

Negley's utilized a Portable Borehole Camera to conduct down-hole video observation in Well W-B. The color borehole camera was used to observe the well casing and distinctive features that may be present within the well. The camera was lowered from the ground surface to approximately 195 ft bgs, with a "down-view" camera angle to observe whether the wells were free of obstructions and a rotating "side-view" camera angle to observe conditions within the well from the bottom of the well, up to the ground surface.

A summary of the down-hole video logging for Well MW-B, is provided herein. It is noted that well logs, in part, are based on materials that are brought to the surface after the depths at which they are encountered have been penetrated. Consequently, depth estimates for encountered features can be less precise than those generated by a down-hole logging system, such as a caliper log or video. Additionally, relatively small openings and variations in the borehole diameter, detected by logging systems, may be unnoticed during the drilling processes. The full down-hole video file for the existing well should be reviewed for additional information on observed well conditions.

The down-hole view of the camera indicated that the bottom of steel casing was at about 84.3 ft bgs. The camera was lowered to a depth of approximately 195 ft bgs where a fracture/void was observed. The camera uses four centralizing bands that expand away from the camera in order to keep the camera in the center of the borehole. The centralizing bands can become lodged in the fracture/void, which threatened to inhibit the movement of the camera and to cause the potential loss of the camera. Therefore, the camera was not lowered further. The side-view camera angle indicated zones that appeared to be associated with relatively weathered rock and/or fractures, including at the following approximate depths: about 120, 145, 168, 175-195+.

The well log indicates that water-bearing fractures were encountered at about 118-119 and 173-187 ft bgs. The video log appears to indicate relatively pronounced features in agreement (within 2-3 feet) with the well log.

6.0 AQUIFER TESTING OPERATIONS AND RESULTS

An aquifer test was performed using Well MW-B as the pumping well, and observing groundwater levels in two observation wells, MW-A and PW-1. The following includes a summary of information regarding the wells used in testing, the test operations, the analysis aquifer testing data, and a discussion of recharge.

6.1 **Pumping Well and Observation Points**

The Pumping Well and observation Point locations are shown on the Test Well Location Plan. Select, available well information is summarized for wells used in the aquifer test in *Table 1.*

Triad observed groundwater levels within pumping Well MW-B and observation wells during the aquifer testing, i.e., Wells MW-A and PW-1. Lake Louise, and the Spring, were also observed and is situated approximately 350 ft to the southwest of the pumping Well MW-B. Wells MW-B, MW-A, and PW-1 were observed utilizing electronic water level probes and Van Essen Diver pressure transducers. A Barologger was also deployed at the site to collect atmospheric pressure data for use in compensation of groundwater level data. The Spring was also observed utilizing electronic water level probes and Van Essen Diver pressure transducers. Groundwater level measurements were recorded to the nearest 0.01-foot. It is noted that PW-1 is an actively pumped supply well for the mobile home park that is on-site which was in operation during the pumping test of MW-B.

1										
Well ID	Well Type	Approximate Latitude**	Approximate Longitude**	Total Well Depth	Casing Depth	Static Depth to Water	Depth to Potential Water- Bearing Fractures	Approximate Distance from Pumping Well MW-B (ft)	Pumping Test Rate (gpm)	Max. Change in Water Level During Aquifer Test (ft)
				(ft bgs)	(ft bgs)	(ft bgs)*	(ft bgs)			MW-B (124.5-hr)
MW-B	Pumping (Proposed Production)	39.300675°	- 77.968529°	225	78	5.49	87-88, 118-119, and 173- 187	0	1,200	5.35
MW-A	Observation	39.300922°	- 77.968996°	255	121	5.75	141-150, 155-156, 163-165, and 167- 169	160' West	N/A	0.57
PW-1	Observation	39.304666°	- 77.966652°	Unknown	Unknown	18.8	Unknown	1,550' Northeast	N/A	2.06<
Spring	Observation	39.300120°	- 77.969513°	Unknown	N/A	4.2	N/A	350 Southwest	N/A	0.11>

Notes: N/A: Not Applicable

* Static water levels measured on 3-6-22, prior to test initiation

** Estimated based on Google Earth

Ft bgs – feet below existing ground surface

Gpm – gallons per minute

< It is noted that PW-1 is actively being pumped to supply water to the mobile home park. Max change in water level is affected by the pumping interval of the installed pump.

> Level is potentially impacted by wind and precipitation

Triad also observed streamflow measurements near the intersection of Turkey Run and Queen Street, in Middleway, WV, which is located approximately 4,500 feet to the west of MW-B and is shown on the Test Well Location Plan. Triad monitored streamflow measurements by making use of a stream gauge. Water levels were monitored throughout the test to ensure that water was not recycling within the spring back into the groundwater. Table 2 below summarizes the results of the stream monitoring. It is noted that, due to human error, it is possible that the flow values could be off by +/- 0-200 gpm. The flow at the monitoring location shows that it increased by approximately 1,200 gpm, which would indicate that there was no recycling of discharge water back into the aquifer.

Date	Time	Flow (cfs)	Flow (gpm)		
3/6/2022	10:00	8.14	3,651.1		
3/6/2022	18:00	8.99	4,035.0		
3/8/2022	9:30	9.73	4,368.2		
3/9/2022	8:00	10.64	4,776.1		
3/10/2022	17:00	10.71	4,807.1		
	Difference	2.58	1,156.0***		

Table 2: Summary of Stream Flow Monitoring

Notes:

cfs - Cubic Feet per Second

gpm - Gallons per Minute

*** +/- 0-200 gpm due to human error

6.2 Step-drawdown Test

Triad performed a step-drawdown test of Well MW-B on 3-1-22, with successively increasing pumping segments of about 700, 1,052, 1,200, and 1,400 gpm, each with an equal duration of about 120 minutes. Step testing provided information for determining the pumping rate for the 124.5-hour aquifer test, i.e., 1,200 gpm. The step-drawdown hydrograph is attached to this Report in **Appendix D**.

6.3 Aquifer Test Operations

The aquifer test consisted of a 124.5-hour constant rate pumping test of Well MW-B, at a rate of approximately 1,200 gpm. The aquifer test was performed during the period of March 6 through March 11, 2022.

Prior to initiation of the aquifer test, static groundwater levels were measured in the pumping well and within observation points (see *Table 1* for measured static water levels). Wells MW-B, MW-A, PW-1, and the Spring were observed utilizing electronic water level probes and Van Essen Diver pressure transducers, while stream flow monitoring was observed via staff gauge near the intersection of Turkey run and Queen Street in

Middleway, WV. An electronic Barologger was also deployed, through which atmospheric barometric pressure data was collected, which was subsequently used to compensate for changes in barometric pressure. Groundwater level measurements were recorded to the nearest 0.01-foot.

A submersible pump was lowered into Well MW-B, to a depth of approximately 80 ft bgs, by Negley's for test performance. A monitoring tube was installed within the pumping well to prevent instrumentation from being entangled within the well, and to avoid influence of potential cascading water. A generator was mobilized to provide a power source for the pump. Discharge from the pumping well was regulated by a ball valve. A flow meter was utilized for discharge rate measurements. Discharge rate measurements were measured every 60 minutes or less during aquifer testing. Discharge discharge hose. The discharge ran from Well MW-B to the outflow of Lake Louise, located to the west of Well MW-B. A discharge apparatus was constructed to prevent scouring of the streambed and to prevent discoloration of the stream. Additionally, all discharge water was observed to be clear during the test. Images of the discharge apparatus and discharging water are included in **Appendix C**.

6.4 Aquifer Test Observations

Triad analyzed the results of the aquifer test to evaluate the yield potential of Well MW-B, and the potential for well interference between Wells MW-B, MW-A, PW-1, and Lake Louise/Spring. Time drawdown hydrographs of water levels observed within Pumping Well MW-B and Observation Points MW-A, PW-1, and the Spring, are attached to this Report in **Appendix D**. Based on review of the hydrographs for Observation Points MW-A, PW-1, and the Spring, it appears that groundwater levels are minimally influenced by the pumping of proposed production Well MW-B. Observed maximum drawdown in those wells is indicated in *Table 1*.

6.5 Aquifer Parameter Estimation

Time-drawdown data from the 124.5-hour aquifer test were plotted and analyzed via the Theis (1935) theoretical model using the Aqtesolv program (Hydrosolve, Inc., 2007), to evaluate aquifer parameters. The analysis resulted in a transmissivity (T) value of approximately 3.683E+5 ft²/day with a saturated thickness of 300 feet. Storage coefficient values obtained through aquifer test analysis are estimated to be approximately 2.828E-34. The analysis resulted in an approximate hydraulic conductivity (K) value of 1,227.6 ft/day.

6.6 Well MW-B Yield Estimation

The sustainable yield of Well MW-B was estimated based upon consideration of testing results, including projection of the 1,200 gpm aquifer test and projection of Well MW-B time drawdown data to 1, 6, 12, and 30-years: and an observed water column of about 82 feet above the uppermost water-bearing fracture in Well W-1B (available drawdown).

As previously noted, the 1, 6, 12, and 30-years projection of Well MW-B time-drawdown data (for the 1,200 gpm test rate) indicates that the water level in Well MW-B would remain above the uppermost major water-bearing zone. Allowing for the potential lowering of the groundwater table due to drought conditions, by up to about 20 feet (extreme case), results in an estimated sustainable yield for Well MW-B of at least 1,200 gpm, or 1.728 million gpd.

7.0 SAMPLING COLLECTION AND ANALYSIS

Triad personnel collected one sample from each of Well MW-B and Lake Louise, near the point of discharge of the spring, during the aquifer test. The samples were collected in general accordance with standard industry practice. The samples were decanted directly into laboratory-cleaned sampling containers, immediately placed on ice to maintain a temperature of 4°C, and transported to Eurofins, located in Mechanicsburg, Pennsylvania

for analysis. The samples were analyzed for parameters which is beyond what is required by the West Virginia Department of Health for new potable groundwater sources. The analysis in general included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, inorganic chemicals (IOCs), bacteriological, and radiological parameters. The analytical data are summarized on the laboratory Certificate of Analysis reports, attached to this Report in **Appendix E**.

During the aquifer test, Triad personnel collected periodic groundwater quality measurements from Well MW-B, by making use of a Hanna multi-parameter water quality meter. The meter was used to monitor parameters to include temperature, pH, oxygen reduction potential (ORP), electrical conductivity, turbidity, and dissolved oxygen.

7.1 Well MW-B Sampling Results

The laboratory analytical results for Well MW-B indicate that VOCs and SVOCs were not detected. The results for IOCs were either not detected or were detected at levels below their respective United States Environmental Protection Agency (USEPA) drinking water standard. Total coliform and E. coli were detected within the sample; Total coliform was detected at 200 colony forming units per 100 milliliters (cfu/100 ml); E. coli was detected at 10 cfu/100 ml.

Metals were not detected or were detected below their respective USEPA Maximum Contaminant Levels (MCLs) or Secondary Drinking Water Standards (SDWS). According to the USEPA, Secondary Drinking Water Standards are non-enforceable guidelines related to aesthetic and cosmetic effects in drinking water.

The laboratory analytical results indicated that detections of combined radium 226 and 228 were below the USEPA MCL of 5 picocuries per liter (pCi/L). The combined Radium 226 and 228 was 0.870 pCi/L. Gross Alpha was detected in the sample (2.93 pCi/l) but is below the USEPA MCL of 15 pCi/l. Gross Beta was also detected in the sample (0.17 pCi/l) but

is below the USEPA MCL of 50 pCi/l. See **Appendix E** for detailed information regarding laboratory analytical results.

The multi-parameter instrument results were as follows: temperature readings from Well MW-B ranged from 12.6° to 14.22° Celsius; pH ranged from 7.22 to 7.38; ORP ranged from 87.6 to 142 millivolt (mV); electrical conductivity ranged from 546 to 651 micro siemens per centimeter (mS/cm); dissolved oxygen ranged from 9.14 to 10 mg/L; and total dissolved solids (TDS) ranged from 231 to 338 parts per million (ppm).

The results of the groundwater sampling and analysis for analyzed parameters associated with Well MW-B, indicate that the sampled groundwater produced by the well is generally suitable for potable use, assuming appropriate treatment is implemented to reduce/remove total coliform and E. coli.

7.2 The Spring Sampling Results

The laboratory analytical results for the Spring indicate that VOCs and SVOCs were not detected. The results for IOCs were either not detected or were detected at levels below their respective USEPA drinking water standard. Total coliform and E. coli were detected within the sample; Total coliform was detected at 330 colony forming units per 100 milliliters (cfu/100 ml); E. coli was detected at 3 cfu/100 ml.

Metals were not detected or were detected below their respective USEPA Maximum Contaminant Levels (MCLs) or Secondary Drinking Water Standards (SDWS). According to the USEPA, Secondary Drinking Water Standards are non-enforceable guidelines related to aesthetic and cosmetic effects in drinking water.

The laboratory analytical results indicated that detections of gross alpha and combined radium 226 and 228 were not detected. Gross Beta was detected in the sample (0.17 pCi/l), but is below the USEPA MCL of 50 pCi/l. See **Appendix E** for detailed information regarding laboratory analytical results.

The multi-parameter instrument results at the time of sampling were as follows: temperature readings from Lake Louise were 12.62° Celsius; pH was 7.30; ORP was 98 mV; electrical conductivity was 571 mS/cm; dissolved oxygen was 10.18 mg/L; and TDS was 286 ppm.

The results of the sampling and analysis for analyzed parameters associated with Lake Loise, indicate that the sampled groundwater produced by the well is suitable for potable use, assuming appropriate treatment is implemented to reduce/remove total coliform and E. coli.

8.0 RECHARGE EVALUATION

Triad prepared a recharge evaluation to provide an estimate of groundwater recharge that replenishes the aquifer system tapped by Well MW-B. Triad provides a comparison herein of estimated recharge estimate with the proposed withdrawal of about 1.728 million gpd from Well MW-B. The area of recharge applicable to this evaluation is assumed to be the approximate watershed indicated by the United States Geological Service (USGS) StreamStats website.

Triad estimated the total area of recharge by the approximate watershed indicated by the United States Geological Service (USGS) StreamStats website. The USGS StreamStats Report is attached to this Report in **Appendix F**. Based on an average annual and drought-year recharge estimates of 10- and 6.14-inches per year (see *Section 3.0*), and an evaluation area of approximately 3,027.21 acres, the respective estimated daily recharge for the area is approximately 2,252,102 and 1,383,408 gpd. Comparison of the recharge estimate with the proposed groundwater withdrawal of about 1,200 gpm, or 1,728,000 gpd indicates that there is enough available recharge, and that the proposed withdrawal is feasible with respect to normal recharge values. If the withdrawal rate was increased to 1,500 gpm, or 2,160,000 gpd, the withdrawal would be feasible with respect to normal recharge was increased to 2,000

gpm, or 2,880,000 gpd, the withdrawal rate would be greater than that of the approximate normal recharge conditions to the drainage basin. It is important to note that this recharge estimate only takes into consideration recharge from precipitation falling within the basin and does not account for groundwater recharge from adjoining basins.

9.0 AREA OF IMPACT EVALUATION

To facilitate the Area of Impact (AOI) analysis, a groundwater flow model was constructed. Triad utilized the U.S. Geological Survey three-dimensional groundwater flow modeling program MODFLOW (McDonald and Harbaugh, 1988), as incorporated into Groundwater Modeling System (GMS), Aquaveo. A Conceptual MODFLOW model with grid dimensions of 5,000 by 5,000 feet and more refined grid spacing at the areas around the simulated pumping location. Model boundaries were extended to 5,000 feet to reduce the potential for boundary influence on the simulated well. The model was constructed with one layer, and a saturated thickness of approximately 300 feet was assumed in the model based on observed static groundwater levels and the depths drilled by the well used in the aquifer testing. Model parameters included a hydraulic conductivity of approximately 1,227.6 ft/day based on the geometric mean T-value of 3.683E+5 ft²/day and the 300-foot aquifer thickness (see *Section 5.5*). A specific storage of 1.1E-5 was used for storage property assignment to the simulated aquifer materials. An effective recharge rate of 10-inches per year was incorporated into the model. Prescribed head and low-flow boundaries were assigned at the margins of the model.

9.1 1,200 gpm Flow Model

A steady state simulation was performed without simulated pumping to obtain a set of initial head values for the transient simulation. A transient simulation was then performed over a 1, 6, 12, and 30-year period incorporating the withdrawal from Well MW-B, pumping at 1,200 gpm or about 1.728 million gpd. The results of the transient simulation, under normal conditions, are attached to this Report in **Appendix G**, and indicates that MW-B will have less than approximately 2 feet and 5 feet of drawdown after 1 and 30-

years of pumping, respectively. At the edges of the model, approximately 5,000 feet away from MW-B, there would be less than approximately 1- and 4-feet of drawdown after 1 and 30-years of pumping, respectively.

A transient simulation was then performed over a 1-year period incorporating the withdrawal from Well MW-B, pumping at 1,200 gpm or about 1.728 million gpd during drought conditions (6.14-inches per year). The results of the transient simulation, under drought conditions, are attached to this Report in **Appendix G**, and indicate that there is approximately 4 feet of drawdown at the pumping well and approximately 3 feet at the edges of the 5,000 by 5,000 foot model after 1 year.

It is noted that the predicted drawdown associated groundwater flow model is less than the drawdown observed during the aquifer testing. This may be due to several conditions including the following: recharge is input to the model at a constant rate over the modeled area as compared with potentially lower recharge spatially and temporally in reality; flow in the model is simulated throughout the aquifer thickness whereas flow to Well MW-B during testing may have been more concentrated in bedding planes/fractures resulting in greater drawdown propagation at the higher pumped rate than simulated, etc.

9.2 2,000 gpm flow model

Additionally, a second AOI evaluation was performed with a higher pumping rate of 2,000 gpm. Again, a steady state simulation was performed without simulated pumping to obtain a set of initial head values for the transient simulation. A transient simulation was then performed over a 1, 6, 12, and 30-year period incorporating the withdrawal from Well MW-B, pumping at 2,000 gpm or about 2.880 million gpd. The results of the transient simulation are attached to this Report in **Appendix G**. The flow model indicates the following: Drawdown at Well MW-B would be less than approximately 5, 22, 42, and 101 feet after 1-, 6-, 12-, and 30-years of pumping, respectively; drawdown at approximately

5,000 feet from Well MW-B would be less than approximately 4, 21, 41, and 100 feet after 1-, 6-, 12-, and 30-years of pumping, respectively.

It is noted that the predicted drawdown associated with this groundwater flow model is more than the drawdown prediction calculations (see section 8.3) for the time periods of 6-, 12, and 30-years. This may be due because the recharge is input into the model at a constant rate over the modeled area whereas the drawdown calculations have infinite or non-definable area, which would result in greater drawdown in the flow model versus the drawdown prediction calculations.

A transient simulation was then performed over a 1-year period incorporating the withdrawal from Well MW-B, pumping at 2,000 gpm or about 2.880 million gpd during drought conditions (6.14-inches per year). The results of the transient simulation, under drought conditions, are attached to this Report in **Appendix G**, and indicate that drawdown at Well MW-B would be less than approximately 7 feet after 1-year of pumping and drawdown at approximately 5,000 feet from Well MW-B would be less than approximately 6 feet after 1-year of pumping.

9.3 Theis Method Drawdown Prediction Calculations

As a secondary check of the MODFLOW model, Triad utilized a modified Theis equation to predict drawdown at the well location and up to 2,000 feet from the pumping well. Based on the transmissivity value of 3.683E+5 ft²/day, a storage coefficient of 2.828E-34, a withdrawal rate of 1,200 gpm, and **no recharge,** would lower the water level by about 4.71 and 4.88 feet at the pumping well after 1 and 30 years, respectively. The water level would lower by about 4.18 and 4.35 feet at approximately 2,000 feet from the pumping well after 1 and 30-years, respectively. It is noted that if recharge was incorporated into the drawdown calculations, it would likely decrease the amount of lowering that occurs to the water level.

Under drought conditions, 6.14 inches per year, the water level would lower by about 8.47 feet at the well and by about 7.52 feet at approximately 2,000 feet from the pumping well after 1 year of drought conditions while pumping the well at 1,200 gpm.

Additionally, with a withdrawal rate of 2,000 gpm, and **no recharge**, the water level would lower by about 7.84 and 6.96 feet at the pumping well after 1 and 30 years, respectively. The water level would lower by about 8.13 and 7.24 feet at approximately 2,000 feet from the pumping well after 1 and 30-years, respectively. It is noted that if recharge were incorporated into these drawdown calculations, it would likely decrease the amount of drawdown that occurs.

Under drought conditions, 6.14 inches per year, the water level would lower by about 11.61 feet at MW-B and by about 10.3 feet at approximately 2,000 feet from the pumping well after 1 year of drought conditions while pumping the well at 2,000 gpm.

The predicted future drawdown calculations are attached to this Report in Appendix G.

10.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the hydrogeological assessment indicate that Well MW-B can yield 1,200 gpm (or about 1.728 million gpd) without adversely impacting off-site wells. Water quality results for Well MW-B indicate that analyzed parameters were associated with concentrations below USEPA drinking water standards (for parameters associated with such standards). An exception is total coliform and E. coli which were greater than the regulatory standard for the parameters. Bacteria (total coliform and E. coli) in groundwater can be effectively treated to acceptable levels. The results of our recharge analysis indicate that the recharge to the aquifer system under normal conditions is greater than the anticipated withdrawals. The results of this evaluation indicate that the use of Well MW-B for potable supply at a rate up to about 1,200 gpm is feasible, pumping continually or as needed, provided appropriate treatment is applied to water produced by the well. Based on

the results of this evaluation, Well MW-B is capable of meeting and exceeding the anticipated 1.728 million gpd demand.

The results of this evaluation indicate that the use of Well MW-B for potable supply at a rate of up to about 2,000 gpm is feasible, but additional testing would be needed.

Triad provides the following recommendations with respect to the operation and water quality of Well MW-B:

- A Civil Engineer should review the Laboratory Certificates of Analysis data (attached in Appendix E) and any future analytical results, to determine the water quality treatment that may be necessary for Well MW-B as a potable source, and in the context of applicable reviewing agency requirements.
- It is recommended that groundwater pumping levels be maintained above the uppermost potential water-bearing fracture depth of approximately 87 ft bgs to avoid potential repeated exposure of the fractures to air, and to reduce the potential for mineral precipitation sealing water-bearing fracture zones.
- If a withdrawal rate of 2,000 gpm is needed, MW-B should be evaluated at a rate of 2,000 gpm and an AOI evaluation should be completed to indicate if any adverse impacts would occur to off-site wells.
- MW-B should be disinfected and resampled for total coliform and E. coli. Well disinfection can potentially remove total coliform and E. coli from instrumentation and the well casing.
- Operational groundwater level monitoring of Well MW-B should be performed on a near-continuous basis by making use of transducer/data logger instrument. A barometric logger should also be deployed in conjunction with the water level instrumentation for data compensation as applicable. A readily accessible,

permanent monitoring tube should be installed within Well MW-B for accommodation of water level logging instrumentation and electronic water level probe. Well MW-B should also be equipped with a flow meter/logging device.

- Observation Wells MW-A (if not abandoned) and PW-1 should be equipped with similar water level logging instrumentation as indicated herein for Well MW-B for operational monitoring.
- Triad should be afforded the opportunity to review operational monitoring data following system start up and on a quarterly basis for at least the initial year of production, in order to evaluate operational performance and provide additional recommendations as applicable.

End of Report

Appendix A

Test Well Location Plan Triad Project No. 03-20-0377







Test Well Location Plan Triad Project No. 03-20-0377



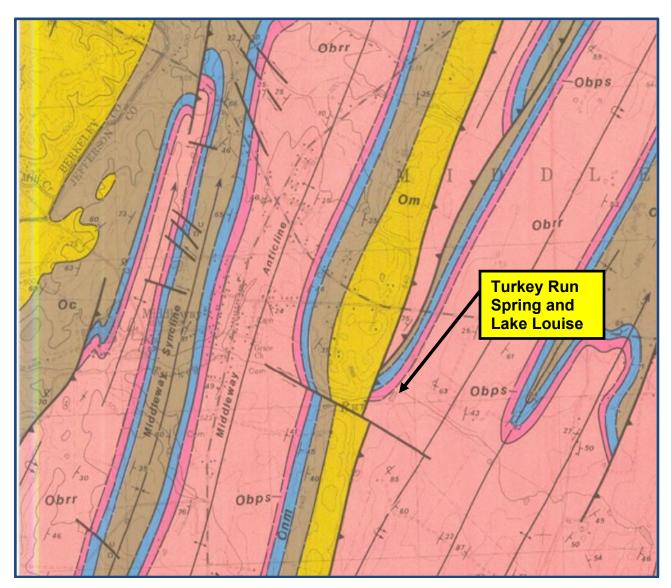




Turkey Run

Triad Project No. 03-20-0377

Geologic Map

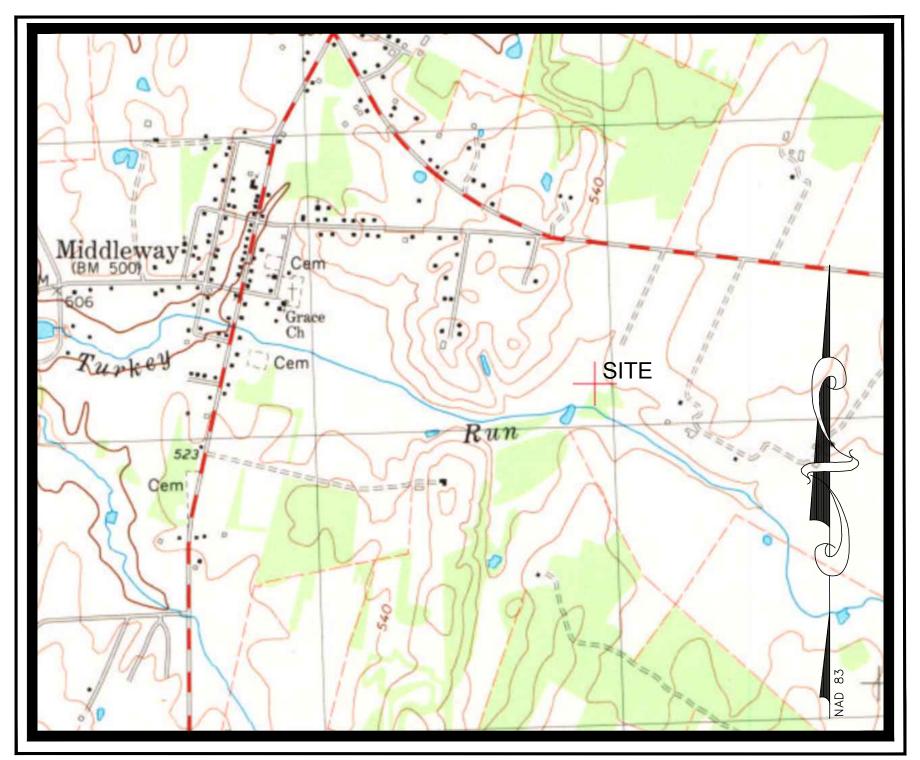


Not to Scale Original Map Scale 1:24,000 Contour Interval: 20 Feet





VICINITY MAP:



SCALE: 1" = 1,000'

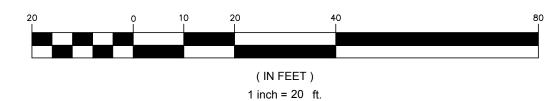
LEGEND:

	INDICATES STUDY LIMITS
w	INDICATES SUSPECT JURISDICTIONAL WATERS OF THE U.S. AND/OR WATERS OF THE STATE IN THE FORM OF PALUSTRINE FORESTED (PFO) WETLANDS.
● DP-#	INDICATES DATA PLOT SAMPLING LOCATION
<u>PP-#</u>	INDICATES PICTURE POINT LOCATION AND DIRECTION
TP-1 🕈	INDICATES TEST PIT LOCATION
\mathbf{W}	WELL LOCATION
— FS12 —	EXISTING 12 INCH FILTER SOCK
	EXISTING FOREST COVER - POST DISTURBANCE

GENERAL NOTES:

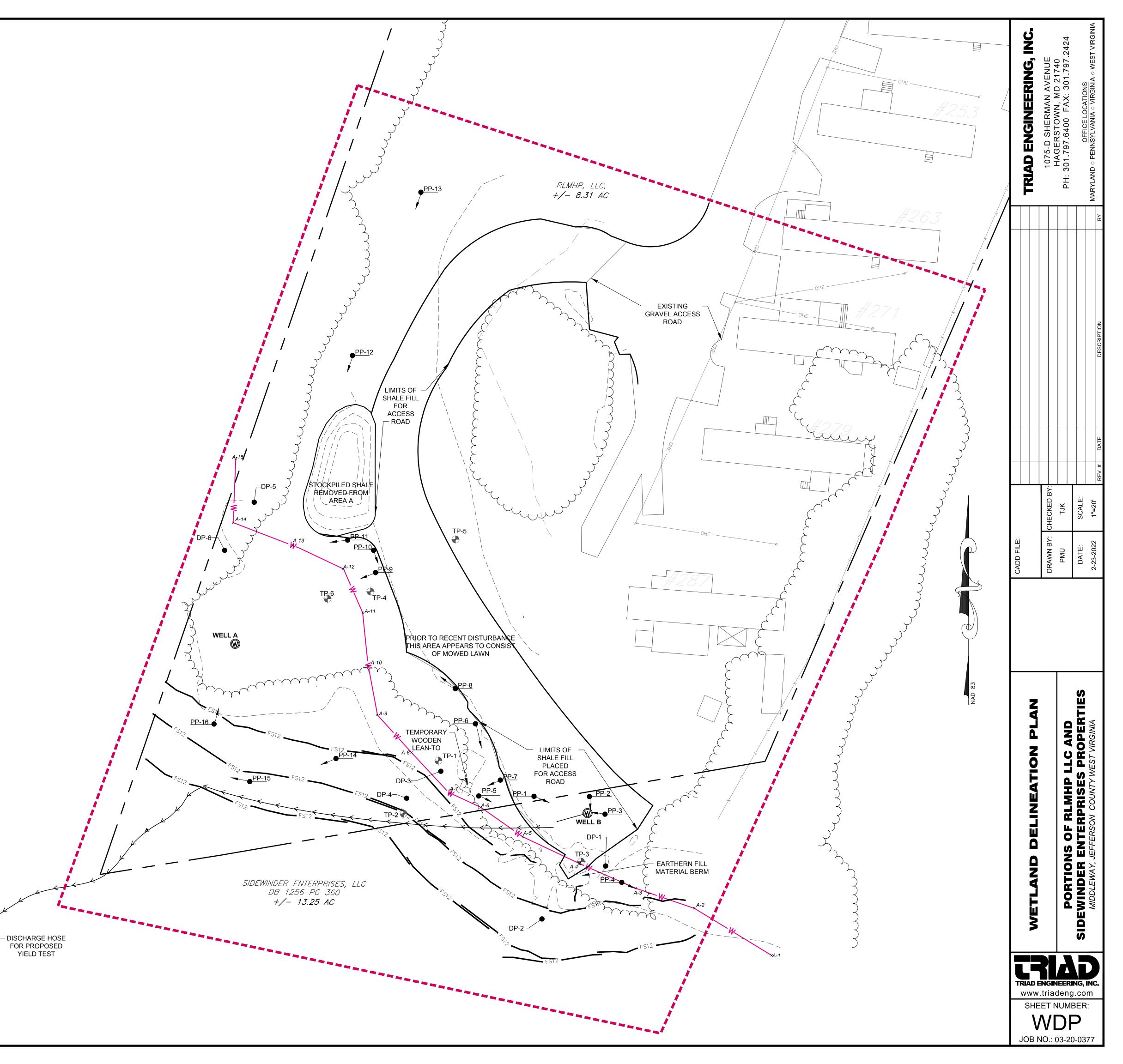
- 1) SUSPECT JURISDICTIONAL WATERS OF THE U.S., AND WATERS OF THE STATE OF WEST VIRGINIA, INCLUDING WETLANDS, SHOWN HEREON WERE DELINEATED AND FLAGGED AS PART OF A WETLAND DELINEATION STUDY BY TRIAD ENGINEERING ON FEBRUARY 15, 2022 AND SUBSEQUENTLY LOCATED AS PART OF A FIELD-RUN SURVEY BY FOX AND ASSOCIATES, INC.ON FEBRUARY 17, 2022.
- 2) BOUNDARY AND TOPOGRAPHY INFORMATION SHOWN HEREON WAS PROVIDED BY FOX AND ASSOCIATES, INC.

GRAPHIC SCALE

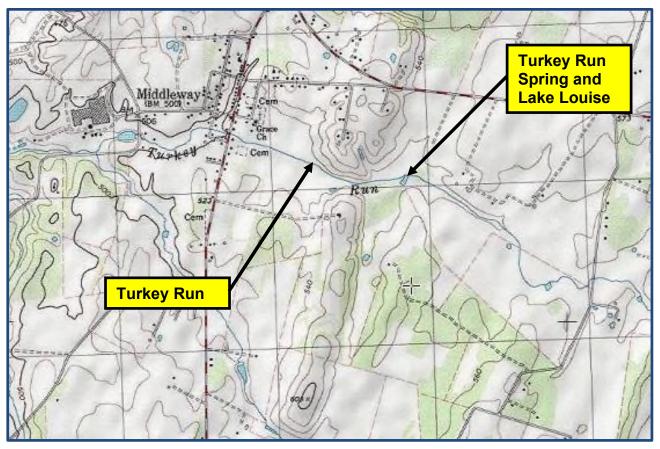


APPLICANT CONTACT INFO:

NAME: ADDRESS- SIDEWINDER ENTERPRISES, LLC 2420 MANHATTAN AVENUE MANHATTAN BEACH, CALIFORNIA 90266



Turkey Run Topographic Map Triad Project No. 03-20-0377



Sources:

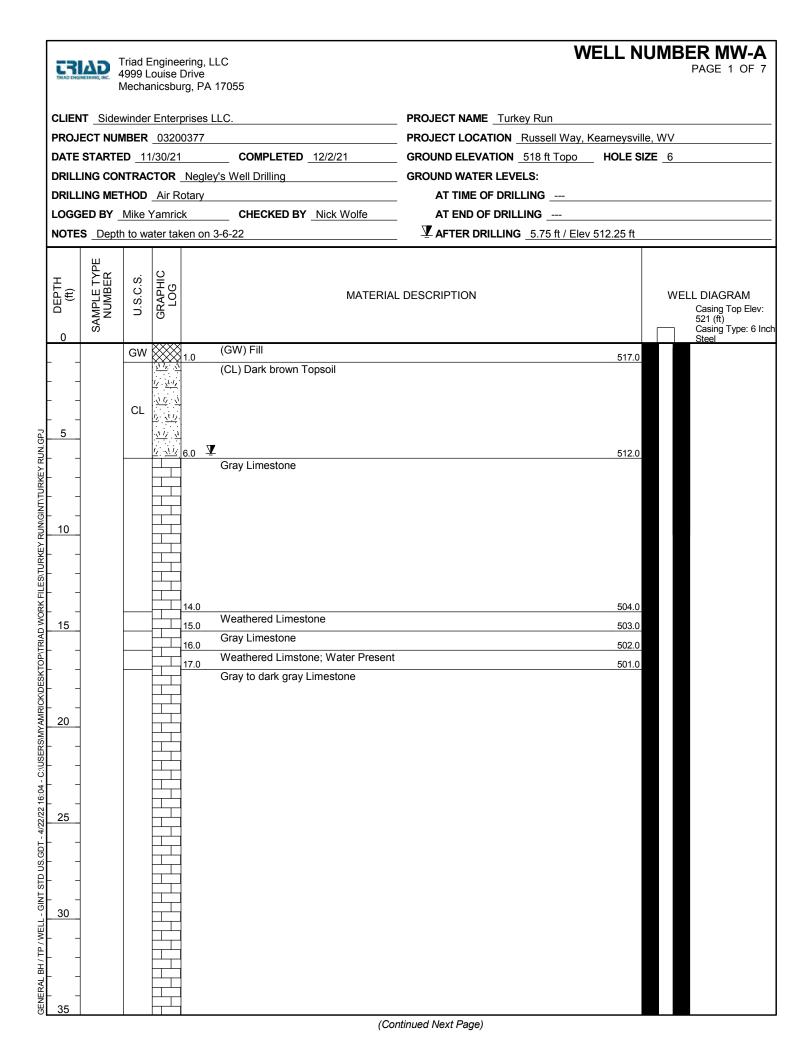
U.S Geological Survey Middleway Quandrangle West Virginia 7.5 Minute Series 2019 U.S. Geological Survey Inwood Quadrangle West Virginia 7.5 Minute Series 2019





Appendix B

Well Logs





WELL NUMBER MW-A

PAGE 2 OF 7

CLIEN	T Sidev	vinder	Enter	prises LLC.	PROJECT NAME _Turkey Run	
	ECT NUN				PROJECT LOCATION Russell Way, Kearneysvi	lle, WV
DEPTH (ft) 32	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	Μ	ATERIAL DESCRIPTION	WELL DIAGRAM
				Gray to dark gray Limestone	e (continued)	
L _						
40				40.0 Light gray Limestone with ca	478.0	
2 45						
				46.0	472.0	
				Gray Limestone		
2						
50						
55						
60						
65						
			╞┼╾			
70						
75					(Continued Nevt Page)	



WELL NUMBER MW-A

PAGE 3 OF 7

PROJ	ECT NUM	BER	0320	377	PROJECT LOCATION Russell W	ay, Kearneysville, WV
(H) (ff) 22	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	M	ATERIAL DESCRIPTION	WELL DIAGF
				Gray Limestone (continued)		
80	-			0.0 Highly weathered Limestone;	; Water and Mud Present.	438.0
· -						
85						
90	-		20	0.0 Void		428.0
95						
 100						
105						
110						

TRIAD ENGINEERING, INC.	

GENERAL BH / TP / WELL - GINT STD US.GDT - 4/22/22 16:04 - C:\USERSIMYAMRICK\DESKTOPITRIAD WORK FILES\TURKEY RUNGINT\TURKEY RUN.GPJ

Triad Engineering, LLC 4999 Louise Drive Mechanicsburg, PA 17055

WELL NUMBER MW-A

PAGE 4 OF 7

	IT Sidev	vinder	Enter	prises L	LC. PROJECT NAME Turkey Run	
					PROJECT LOCATION Russell Way, Kearneysvill	e, WV
(J) HLDEDTH	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION	WELL DIAGRAM
110				116.0	Void (continued) 402.0	
 120					Solid Rock; No Cutting Return	
120				121.0	397.0	
					Casing Set at 121' Gray to dark gray Limestone	
<u>125</u> 						
				129.0	389.0	
130				130.0	Fracture 388.0	
				132.0	Gray to dark gray Limestone 386.0 Highly Weathered Limestone with Fracture	
				405.0	200.0	
_ 135 				135.0	383.0 Weathered Limestone 379.0	
 140				140.0	Gray to dark gray Limestone 378.0 378.0	
				141.0	Fracture 377.0	
					Gray to dark gray Limestone	
 _ <u>150</u> 						
 155				155.0	363.0	



WELL NUMBER MW-A

PAGE 5 OF 7

CLIENT Sidewinder Enterprises LLC.

PROJECT NUMBER 03200377

PROJECT LOCATION	Russell Way, Kearneysville, WV

-	SAMPLE TYPE NUMBER	, ci	<u>∪</u>				
DEPTH (ft)	ла ЛВЕ	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION	v	/ELL DIAGRAM
DE)	MPL	U.S	GRA L			-	
455	SA						
155			•	156.0	Highly Weathered Limestone with Fracture		
				156.0	Void		
				158.0 159.0	Highly Weathered Limestone with Fracture 250.0		
				159.0	Gray to dark gray Limestone Gray to dark gray Limestone		
160				1			
				1			
				1			
				163.0	Highly Weathered Limestone with Fracture 355.0		
165				165.0	Gray to dark gray Limestone 353.0		
				1			
				167.0			
		<u> </u>		169.0	Gray to dark gray Limestone 349.0		
170				1			
				171.0	Highly Weathered Limestone 347.0		
			.•				
<u> </u>			•	174.0	Gray to dark gray Limestone 344.0		
175			\square				
				1			
				1			
				1			
180				1			
				1			
				1			
				1			
				1			
185				1			
				1			
				1			
				1			
				1			
190				1			
				1			
				1			
				1			
				1			
195					(Continued Next Page)		



WELL NUMBER MW-A

PAGE 6 OF 7

CLIENT _Sidewinder Enterprises LLC.

PRO	JECT NUN	IBER	0320	0377	PROJECT LOCATION Russell Way, Kearneysvil	le, V	VV	
HL DEPTH (ft) 195	SA	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION		WE	LL DIAGRAM
_	_				Gray to dark gray Limestone (continued)			
- - - 200	-			200.0	318.0 Gray to dark gray Limestone			
-	-							
-								
 	-							
	_							
URKEY -	-							
	-							
210	-			l				
	-							
K FILE	-							
215	_			I				
	-							
				I				
220	_							
ERS/MY	-			I				
- C:\US	_							
- 16:04	-			I				
225								
US.GD	-							
	-			I				
230	-							
	-							
KAL BH.	-							
HH - 235	-							
					(Continued Next Page)			

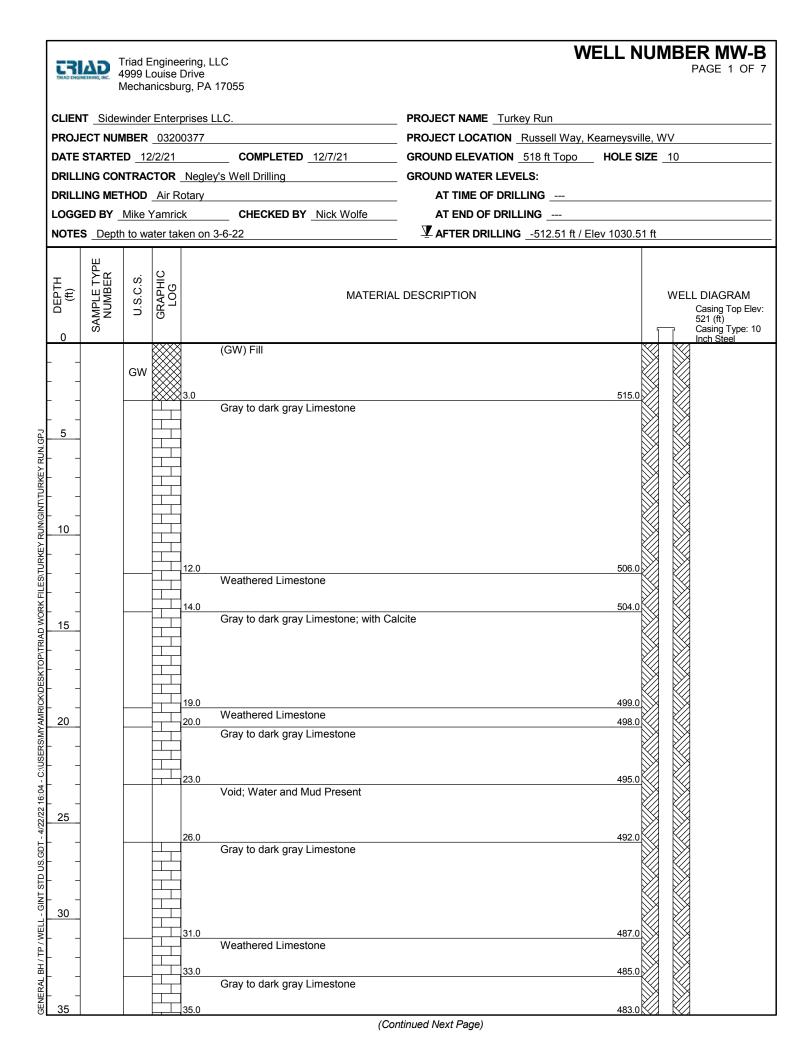


WELL NUMBER MW-A

PAGE 7 OF 7

CLIENT Sidewinder Enterprises LLC.

PRO.	JECT NUN	IBER	0320	0377	PROJECT LOCATION _ Russell Way, Kearneysvi	lle, '	WV		
DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION		W	/EL	L DIAGRAM
				255.0	Gray to dark gray Limestone <i>(continued)</i> 263.0 Boring Terminated at 255' Bottom of borehole at 255.0 feet.				





WELL NUMBER MW-B

PAGE 2 OF 7

CLIENT Sidewinder Enterprises LLC.

PROJECT NAME Turkey Run

PROJ	ECT NUM	IBER	0320	0377	PROJECT LOCATION Russell Way, Kearneysv	ille, WV
HLd3D 35	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION Highly Weathered Limestone with Fracture	WELL DIAGRAM
 - 40				39.0	Gray to dark gray Limestone 479.	
 	· ·			46.0	472.0	
	· · · · ·			48.0 51.0	Gray to dark gray Limestone 470.1 Fracture 467.1	
				52.0 56.0	Gray to dark gray Limestone 465.1	
				57.0 60.0 61.0	Fracture 461. Gray to dark gray Limestone 458. Fracture 457.	
- 4/2//22 16:04 - C:/USEK	- - -			63.0 65.0 66.0	Highly Weathered Limestone 455. Gray to dark gray Limestone 453. Fracture	
45 - 64 - 50 - 50 - 50 - 50 - 50 - 50 - 50 - 50 - 51 - 52 - 60 - 60 - 60 - 60 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 70 -					Gray to dark gray Limestone	

LTI	AD
TRIAD ENGI	NEERING, INC.

WELL NUMBER MW-B

PAGE 3 OF 7

CLIENT Sidewinder Enterprises LLC.

PROJECT NAME Turkey Run

PROJ		IBER	0320	0377	PROJECT LOCATION Russell Way, Kearneysv	lle, W	V
HLL (ft) 22	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION	,	WELL DIAGRAM
 				<u>81.0</u> 83.0	Gray to dark gray Limestone <i>(continued)</i> 437.0 Weathered Limestone 435.0		
				87.0 88.0	Gray to dark gray Limestone 431.0 Fracture 430.0		
	-				Gray to dark gray Limestone		
	-						
	-						
105							
 	-						



WELL NUMBER MW-B

PAGE 4 OF 7

CLIENT Sidewinder Enterprises LLC.

PRC	PROJECT NUMBER 03200377				PROJECT LOCATION _Russell Way, Kearneysville, WV					
HLdJO 115	I AS	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION		WE	LL DIAGRAM		
	,				Gray to dark gray Limestone (continued)					
F	1									
				118.0	400.0					
	_			119.0	Fracture 399.0					
120)				Gray to dark gray Limestone					
	_									
-	_									
-	_									
-	_									
<u>බ</u> 125	5									
GENERAL BH / TP / WELL - GINT STD US, GDT - 4/22/22 16:04 - C:UUSERSIMYAMRICKIDESKTOPITRIAD WORK FILESTURKEY RUNGINITTURKEY RUNGPJ 1 <	-									
IRKE -	-									
	-									
130	, -									
	<u></u>									
	-									
LESVI										
ЯК F										
§ 135	5									
TRIA										
TOP	_									
DES	_									
RICK	_									
₹ 140)									
ERSIN	-									
ISU/:C	-									
- 10:	-									
22 19										
145	<u>}</u>									
- LGD	-									
D US.	1									
	1		<u></u> 							
	,		ĿП							
]									
ZP/]									
H BH]									
ERAL]									
8 8 155	5									
					(Continued Next Page)					



WELL NUMBER MW-B

PAGE 5 OF 7

CLIENT Sidewinder Enterprises LLC.

		JECT NUMBER 03200377 PROJECT LOCATION Russell Way, Keameysville				lle, WV	
	(1 1) (155	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM	
F					Gray to dark gray Limestone (continued)		
	 160						
-							
RUN.GPJ	 						
	 170						
FILES/TURKEY R					173.0 345.0 Large Void with mud and water present		
GENERAL BH / TP / WELL - GINT STD US.GDT - 4/22/22 16:04 - C:USERSIMYAMRICKIDESKTOPITRIAD WORK FILESITURKEY RUNGINITTURKEY RUN.GPJ					Large vold with hidd and water present		
- C:\USERS\MYAMRICK\	 <u>180</u> 						
DT - 4/22/22 16:04 -	 _ <u>185</u>						
GINT STD US.G	- – - – - – 190				187.0 331.0 Gray to dark gray Limestone		
L BH / TP / WELL -	<u>190</u>						
GENERA	 195						
					(Continued Next Page)		



WELL NUMBER MW-B

PAGE 6 OF 7

CLIENT Sidewinder Enterprises LLC.

PROJECT NAME Turkey Run

	CLIENT Sidewinder Enterprises LLC. PROJECT NAME Turkey Run PROJECT NUMPER 02200277 PROJECT LOCATION Puppell We					/ Koomovsvillo W/V					
Ľ	PROJECT NUMBER 0320037		0320	1377 PROJECT LOCATION Russell Way, Kearneysvi	/sville, WV						
	9 DEPTH (ft) (ft) (ft) MUMBER NUMBER U.S.C.S. GRAPHIC LOG			GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM					
	135				Gray to dark gray Limestone (continued)						
2 16:04 - C.:UUSERSIMYAMRICKIDESKTOPTRIAD WORK FILESITURKEY RUNGINITURKEY RUN GPJ	195 - - 200 - - - - - - - - - - - - -	<u>S</u>			Gray to dark gray Limestone <i>(continued)</i>						
- GIN											
VELL.											
TP / M											
BH / T											
RAL E											
ienef											
٥L					(Continued Next Deca)						

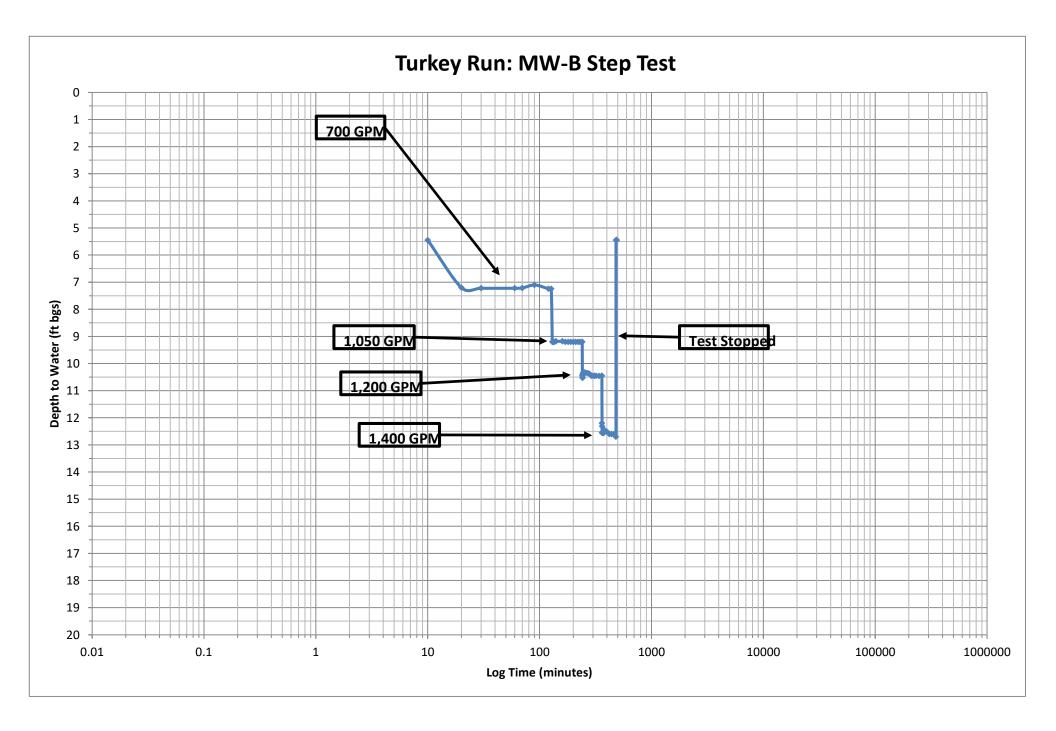
Triad Engineering, LLC 4999 Louise Drive Mechanicsburg, PA 17055		WELL NUMBER MW PAGE 7 O					
CLIENT Sidewinder Enterprises LLC.	PROJECT NAME Run						
PROJECT NUMBER 03200377	PROJECT LOCATION _Russell W	/ay, Kearneysville, WV					
DEPTH (ft) (ft) U.S.C.S. LOG LOG	MATERIAL DESCRIPTION	WELL DIAGRAM					

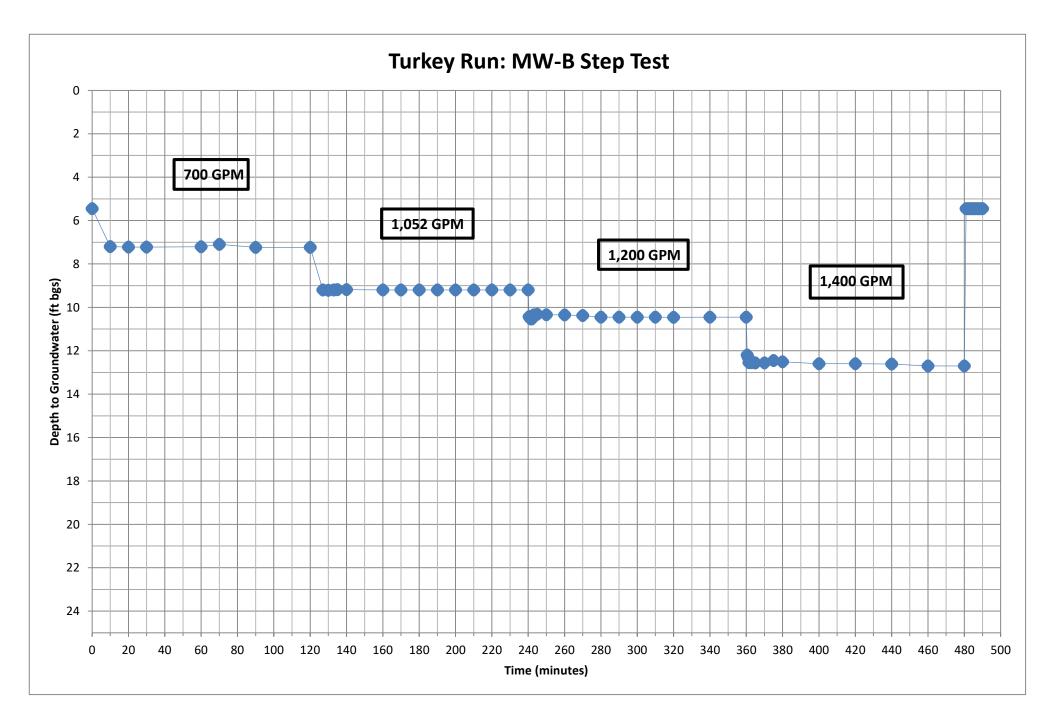
Appendix C

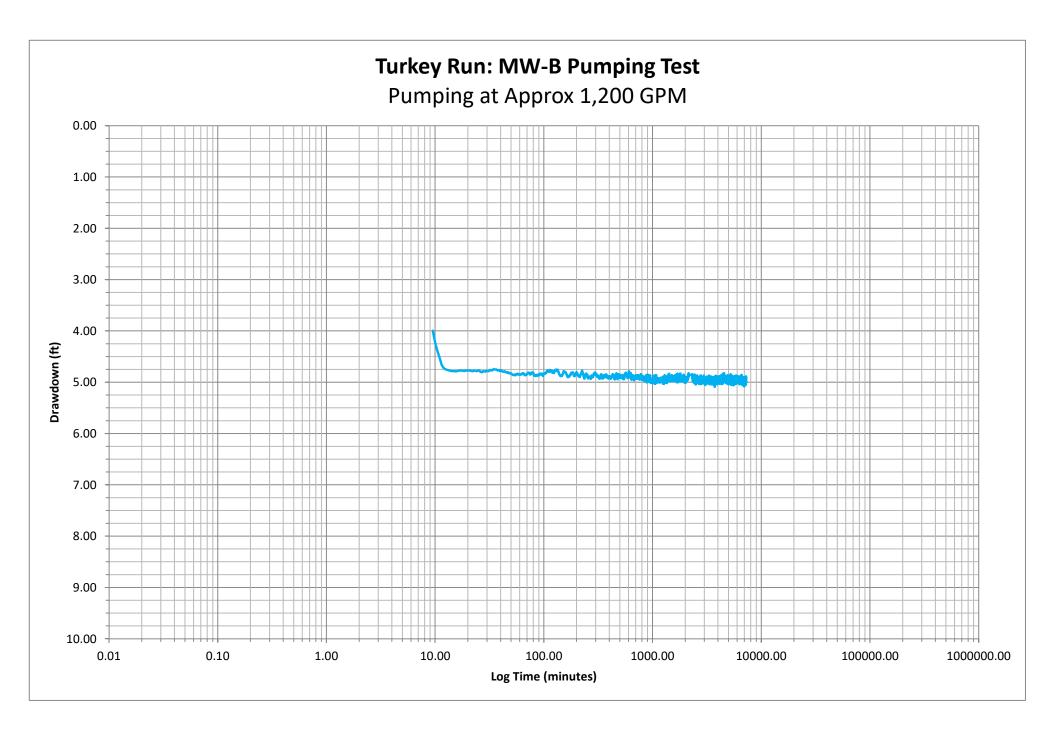


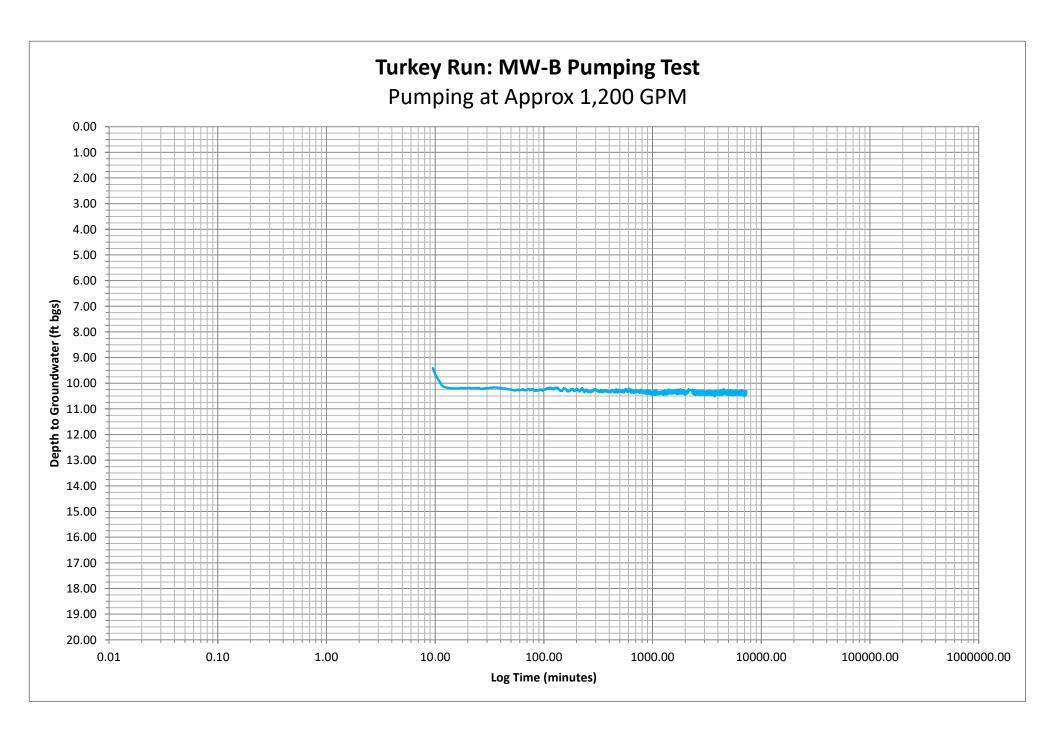
Appendix D

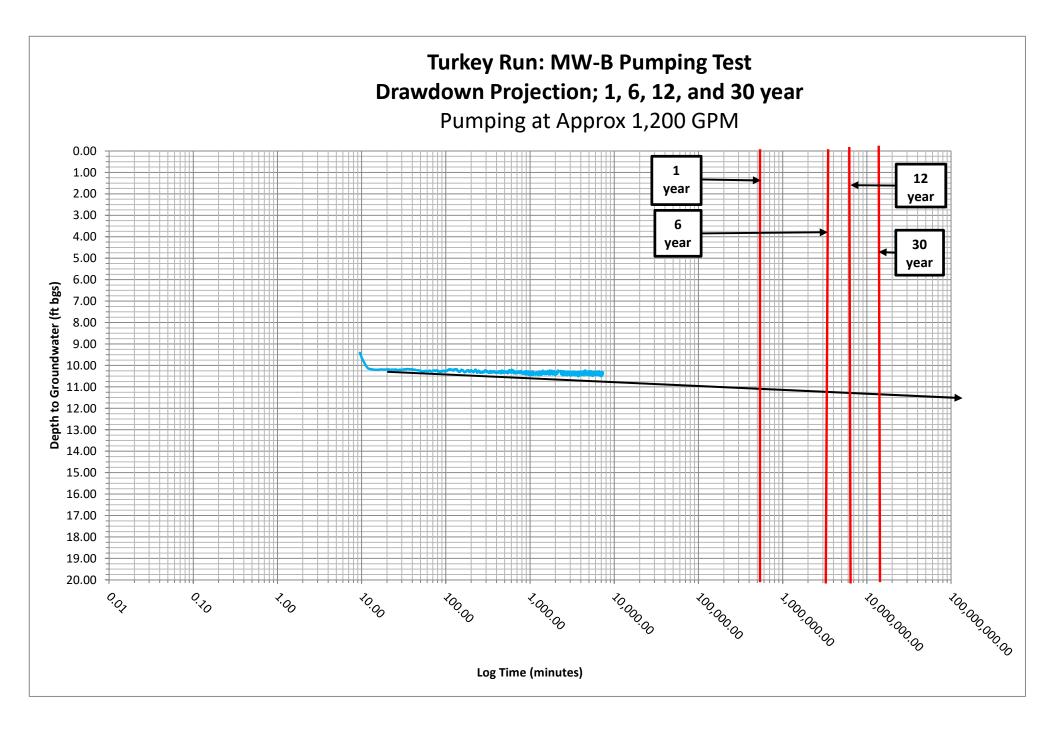
Hydrographs

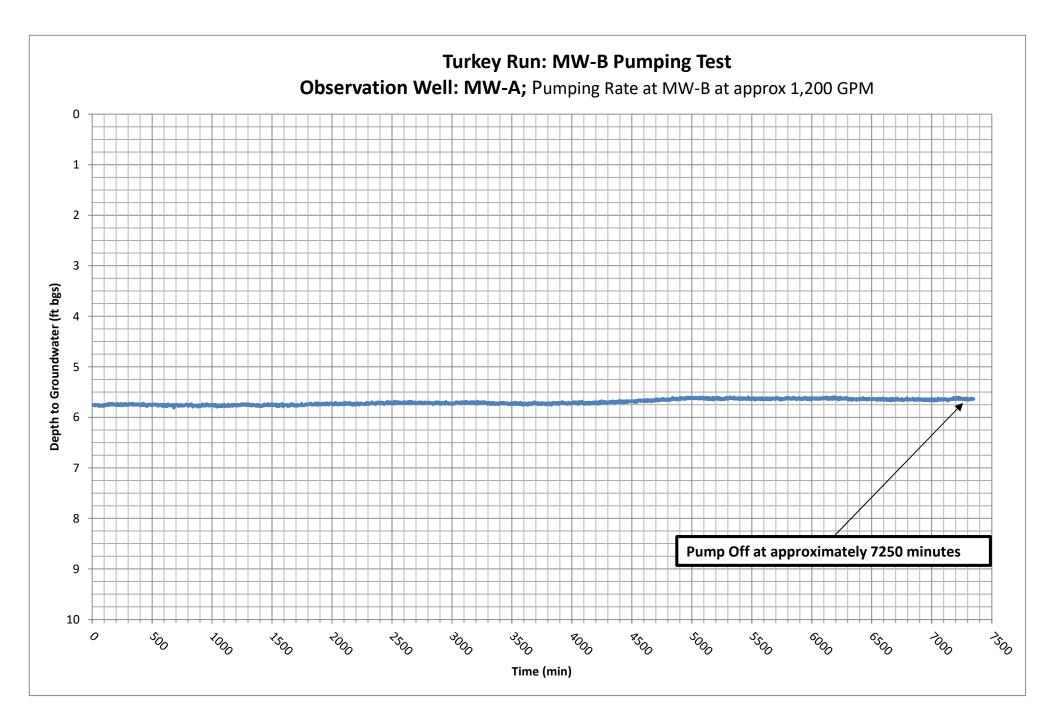


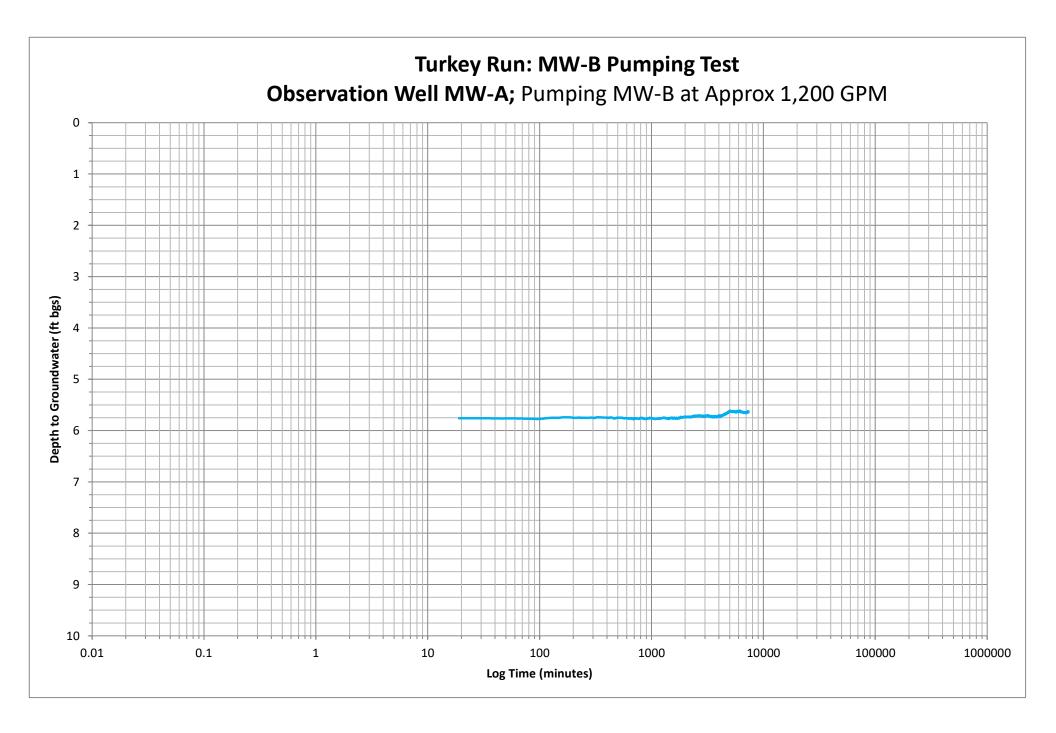


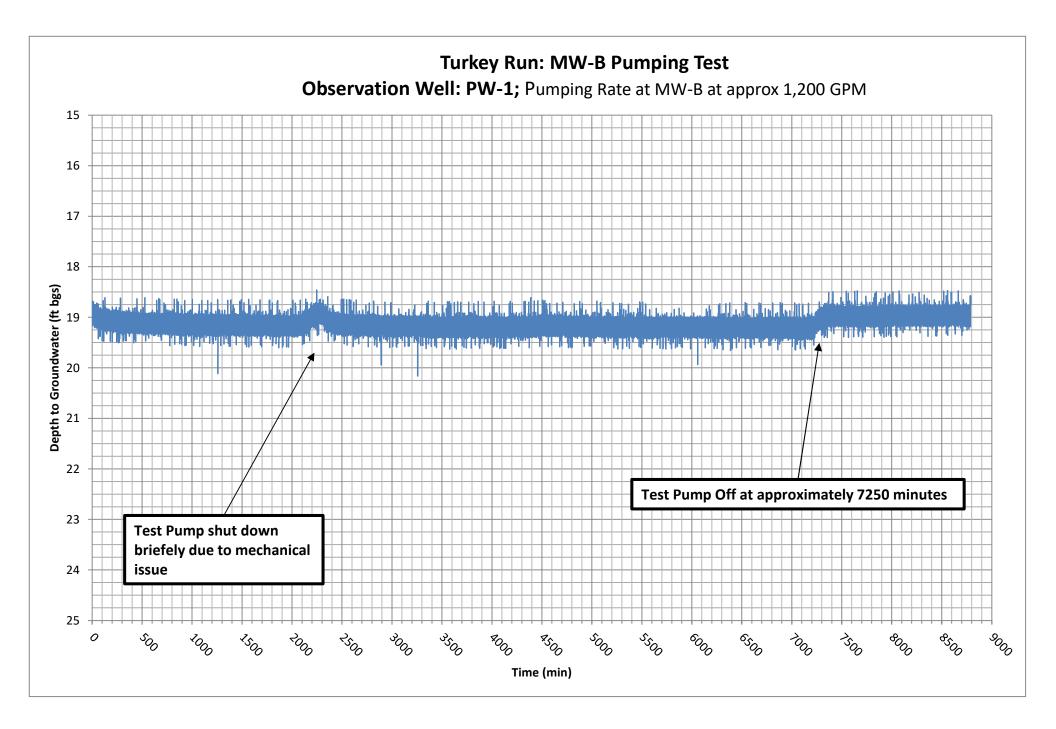


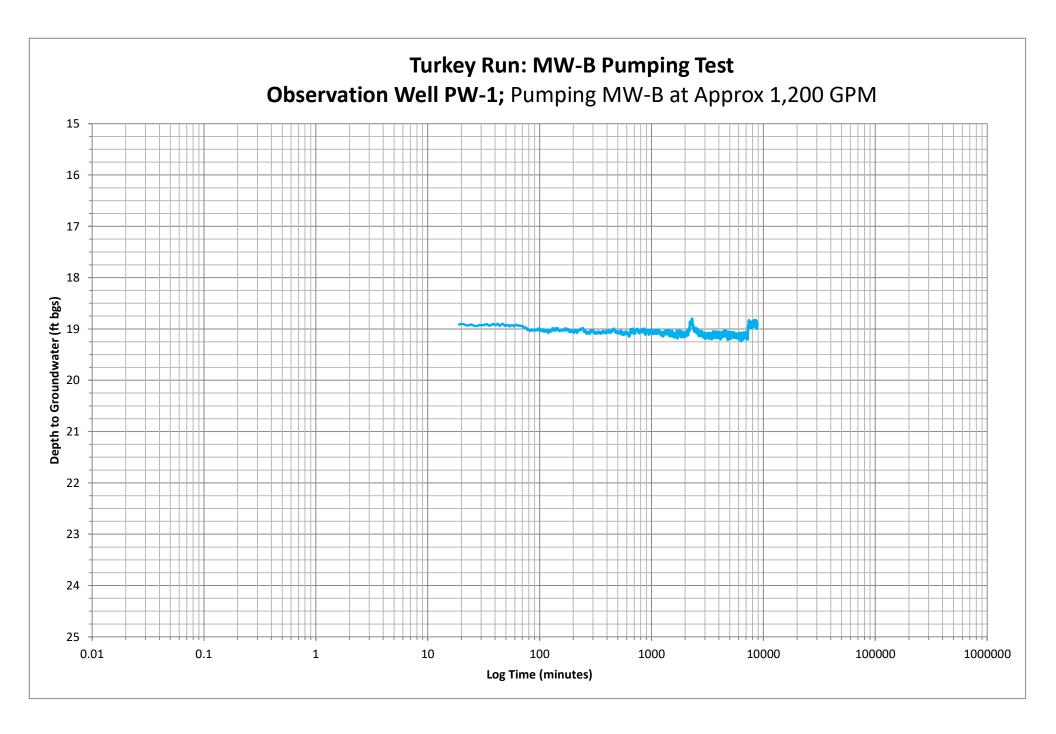


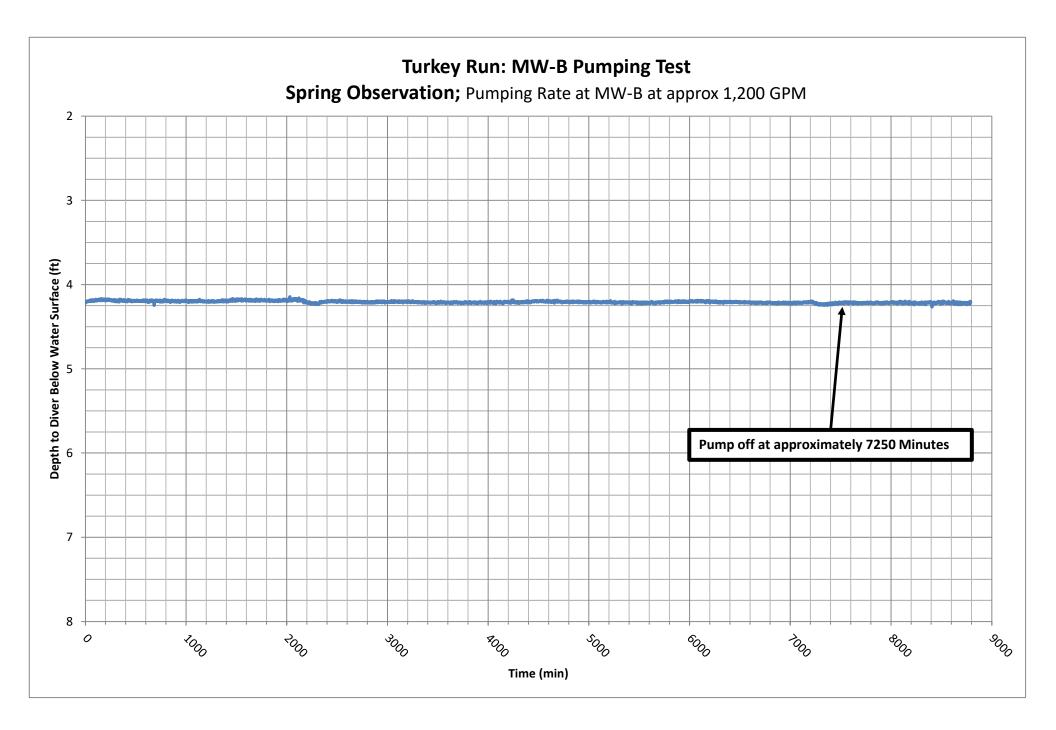


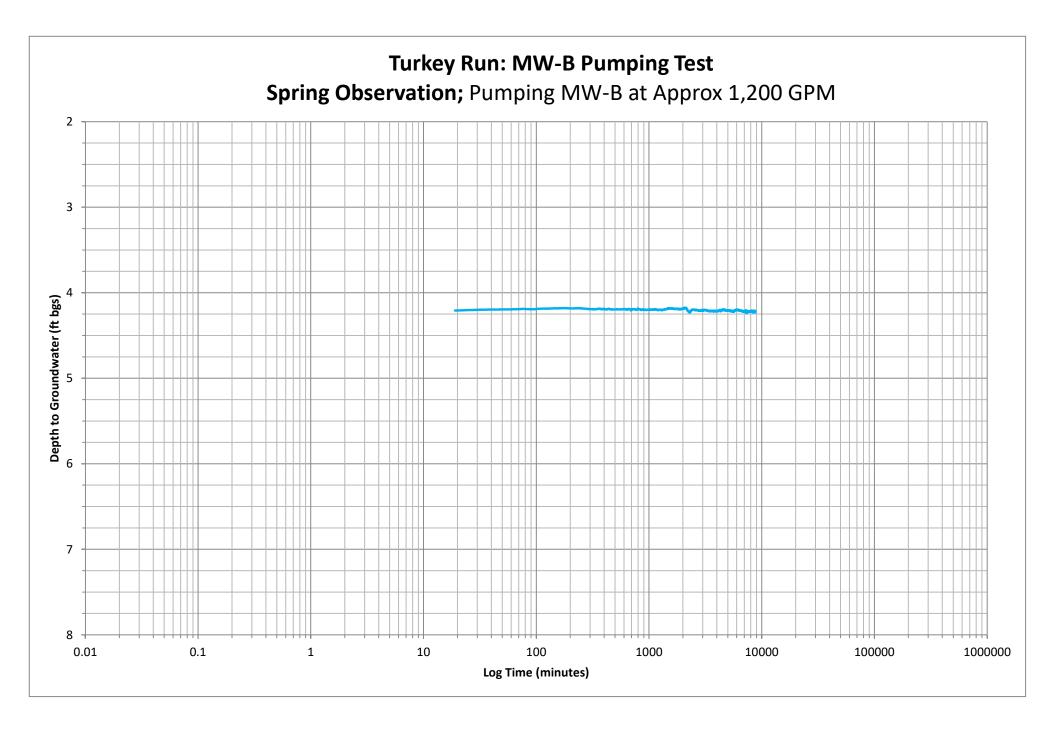


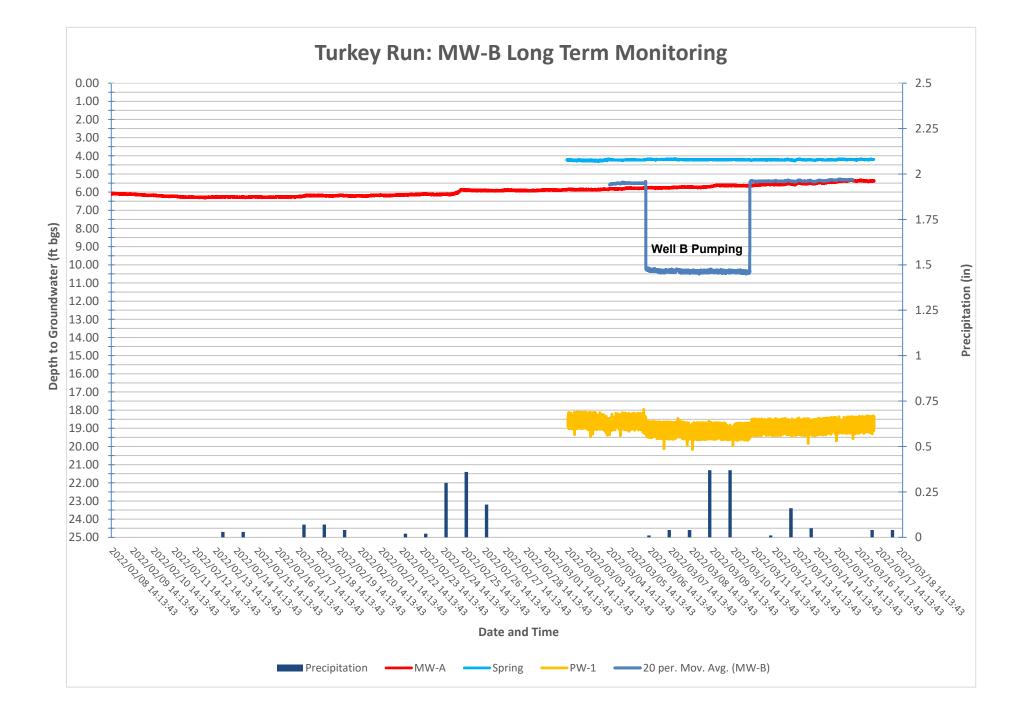












Appendix E

Laboratory Analytical Results

🔅 eurofins

Environment Testing America

1

ANALYTICAL REPORT

Eurofins Eaton South Bend 110 S Hill Street South Bend, IN 46617 Tel: (574)233-4777

Laboratory Job ID: 810-17720-1

Client Project/Site: WV Drinking Water

For:

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

Triad Engineering, Inc. 1075 D Sherman Avenue Hagerstown, Maryland 21740

Attn: Nicholas Wolfe

Appendix E

Authorized for release by: 4/21/2022 4:11:19 PM

Joe Mattheis, Project Manager I (574)233-4777 Joe.Mattheis@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	7
Client Sample Results	9
	25
	28
	30
	62
Lab Chronicle	73
Certification Summary	78
Method Summary	81
Sample Summary	83
Subcontract Data	84
Chain of Custody	89
Receipt Checklists	94

Qualifiers

Qualifier	5	3
GC/MS Se	mi VOA	
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
GC Semi V		5
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
S1-	Surrogate recovery exceeds control limits, low biased.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	8
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
LCMS		9
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not	
	applicable.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
Dioxin		
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
Metals		13
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
General Cl	nemistry	
Qualifier	Qualifier Description	
Н	Sample was prepped or analyzed beyond the specified holding time	
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	17
Rad		
Qualifier	Qualifier Description	
*	LCS or LCSD is outside acceptance limits.	
U	Result is less than the sample detection limit.	
Pielenv		

Biology Qualifier **Qualifier Description** Н Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

Job ID: 810-17720-1

Glossary (Continued)

Glossary ((Continued)	3
Abbreviation	These commonly used abbreviations may or may not be present in this report.	3
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	5
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	8
POS	Positive / Present	
PQL	Practical Quantitation Limit	9
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	13
		16
		17

Job ID: 810-17720-1

Laboratory: Eurofins Eaton South Bend

Narrative

Job Narrative 810-17720-1

Comments

No additional comments.

Receipt

The samples were received on 3/11/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.0° C, 0.0° C, 0.0° C and 0.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC

Method 549.2: The matrix spike (MS) recoveries for preparation batch 810-14934 and analytical batch 810-15152 were outside control limits (70-130) for Diquat (47%). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Data impact unlikely.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 515.3: Surrogate recovery for the following sample was outside the lower control limit of 70% at 25%: Spring (810-17720-2). This sample did not contain any target analytes; re-extraction and/or re-analysis was performed with the low surrogate recovery confirming the initial analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

RAD

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS

Method 331.0: Due to the high concentration of Perchlorate, the low level matrix spike / matrix spike duplicate (LMS/LMSD) for analytical batch 810-14964 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. Perchlorate failed low in the LMS and LMSD at 37% and 41% (50-150% limits), due to the inappropriate spike concentration compared to the native concentration present in the parent sample (17720-2). Client results in the parent sample are not affected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 150.1: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Well B (810-17720-1) and Spring (810-17720-2).

Method SM 2150B: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: Well B (810-17720-1) and Spring (810-17720-2).

Job ID: 810-17720-1 (Continued)

Laboratory: Eurofins Eaton South Bend (Continued)

Method 4500 CI G: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Well B (810-17720-1) and Spring (810-17720-2).

Method 4500 CIO2 D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Well B (810-17720-1) and Spring (810-17720-2).

Method 353.2: The following samples were analyzed outside of analytical holding time due to the method for these samples wasn't requested until 3/14/22: Well B (810-17720-1) and Spring (810-17720-2).

Method 353.2: The following samples were analyzed outside of analytical holding time due to method wasn't requested for sample until 3/14/22: Well B (810-17720-1) and Spring (810-17720-2).

Method 4500 CI F Amine: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Well B (810-17720-1) and Spring (810-17720-2).

Method SM 5540C: The following samples were received outside of holding time: Well B (810-17720-5) and Spring (810-17720-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Biology

Method 9223B: The following sample contained Total Coliform and E. coli bacteria at a concentration above the EPA Maximum Contaminant Level (MCL): Well B (810-17720-1).

Method 9223B: The following sample contained Total Coliform and E. coli bacteria at a concentration above the EPA Maximum Contaminant Level (MCL): Spring (810-17720-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Subcontract non-Sister

See attached subcontract report.

Organic Prep

The reference method requires samples to be preserved to a pH of <3.5-4.5>. The following sample was received with insufficient preservation at a pH of $<\sim5.0>$: Spring (810-17720-2). The sample(s) was preserved to the appropriate pH in the laboratory. Please let the lab know if it's ok to proceed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client Sample ID: Well B

5

17

Lab Sample ID: 810-17720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Chloride	15		2.0		mg/L	1 _	300.0	Total/NA
Sulfate	19		5.0		mg/L	1	300.0	Total/NA
Bromide	23		10		ug/L	1	300.0	Total/NA
Perchlorate	0.70		0.050		ug/L	1	331.0	Total/NA
Sodium	6.7		0.10		mg/L	1	200.7	Total/NA
Magnesium	16		0.10		mg/L	1	200.7	Total/NA
Calcium	110		0.10		mg/L	1	200.7	Total/NA
Barium	35		2.0		ug/L	1	200.8	Total/NA
Chromium	3.9		0.90		ug/L	1	200.8	Total/NA
Nickel	1.4		1.0		ug/L	1	200.8	Total/NA
Zinc	15		5.0		ug/L	1	200.8	Total/NA
Hardness as calcium carbonate	340		0.66		mg/L	1	SM 2340B	Total/NA
Calcium hardness as calcium	270		0.25		mg/L	1	SM 2340B	Total/NA
carbonate Magnesium hardness as calcium carbonate	66		0.41		mg/L	1	SM 2340B	Total/NA
pH	7.3	HF	0.1		SU	1	150.1	Total/NA
Turbidity	0.35		0.10		NTU	1	180.1	Total/NA
Nitrate Nitrite as N	5.5	Н	0.10		mg/L	1	353.2	Total/NA
Nitrate as N	5.5		0.10		mg/L	1	Nitrate by calc	Total/NA
Alkalinity, Bicarbonate	280		1.0		mg/L	1	SM 2320B	Total/NA
Alkalinity, Total	280		1.0		mg/L	1	SM 2320B	Total/NA
Specific Conductance	690		2.0		uS/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	380		10		mg/L	1	SM 2540C	Total/NA
Fluoride	0.090		0.050		mg/L	1	SM 4500 F C	Total/NA
Escherichia coli	PRESENT	Н			NONE	1	9223B	Total/NA
Coliform, Total	PRESENT	Н			NONE	1	9223B	Total/NA
Heterotrophic Plate Count	270		2.0		MPN/mL	1	SimPlate	Total/NA

Client Sample ID: Spring

Lab Sample ID: 810-17720-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Chloride	15	2.0	mg/L	1	300.0	Total/NA
Sulfate	19	5.0	mg/L	1	300.0	Total/NA
Bromide	25	10	ug/L	1	300.0	Total/NA
Perchlorate	0.63	0.050	ug/L	1	331.0	Total/NA
Sodium	6.5	0.10	mg/L	1	200.7	Total/NA
Magnesium	16	0.10	mg/L	1	200.7	Total/NA
Iron	0.026	0.020	mg/L	1	200.7	Total/NA
Calcium	110	0.10	mg/L	1	200.7	Total/NA
Barium	35	2.0	ug/L	1	200.8	Total/NA
Chromium	3.5	0.90	ug/L	1	200.8	Total/NA
Copper	1.6	1.0	ug/L	1	200.8	Total/NA
Manganese	3.8	2.0	ug/L	1	200.8	Total/NA
Nickel	1.7	1.0	ug/L	1	200.8	Total/NA
Hardness as calcium carbonate	340	0.66	mg/L	1	SM 2340B	Total/NA
Calcium hardness as calcium carbonate	280	0.25	mg/L	1	SM 2340B	Total/NA
Magnesium hardness as calcium carbonate	66	0.41	mg/L	1	SM 2340B	Total/NA
рН	7.5 HF	0.1	SU	1	150.1	Total/NA
Turbidity	1.7	0.10	NTU	1	180.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Client Sample ID: Spring (Continued)

Job ID: 810-17720-1

Lab Sample ID: 810-17720-2

Lab Sample ID: 810-17720-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Nitrate Nitrite as N	5.3	H	0.10		mg/L	1	353.2	Total/NA
Nitrate as N	5.3		0.10		mg/L	1	Nitrate by calc	Total/NA
Odor	1.0	Н	1.0		T.O.N.	1	SM 2150B	Total/NA
Alkalinity, Bicarbonate	280		1.0		mg/L	1	SM 2320B	Total/NA
Alkalinity, Total	280		1.0		mg/L	1	SM 2320B	Total/NA
Specific Conductance	590		2.0		uS/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	380		10		mg/L	1	SM 2540C	Total/NA
Fluoride	0.090		0.050		mg/L	1	SM 4500 F C	Total/NA
Escherichia coli	ABSENT	Н			NONE	1	9223B	Total/NA
Coliform, Total	PRESENT	Н			NONE	1	9223B	Total/NA
Heterotrophic Plate Count	150		2.0		MPN/mL	1	SimPlate	Total/NA

Client Sample ID: Well B

No Detections.

Client Sample ID: Spring

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

Job ID: 810-17720-1

Lab Sample ID: 810-17720-1

. Matrix: Drinking Water

5

6

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
rihalomethanes, Total	<0.5000	0.5000		ug/L			03/18/22 10:47	1
Aethod: 524.2 - Volatile Orga	nic Compounds (GC	(MS)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
,1,1,2-Tetrachloroethane	<0.50	0.50		ug/L			03/16/22 20:15	
Bromodichloromethane	<0.50	0.50		ug/L			03/18/22 04:49	
,1,1-Trichloroethane	<0.50	0.50		ug/L			03/16/22 20:15	
Bromoform	<0.50	0.50		ug/L			03/18/22 04:49	
,1,2,2-Tetrachloroethane	<0.50	0.50		ug/L			03/16/22 20:15	
Chloroform	<0.50	0.50		ug/L			03/18/22 04:49	
,1,2-Trichloroethane	<0.50	0.50		ug/L			03/16/22 20:15	
Dibromochloromethane	<0.50	0.50		ug/L			03/18/22 04:49	
,1-Dichloroethane	<0.50	0.50		ug/L			03/16/22 20:15	
,1-Dichloroethene	<0.50	0.50		ug/L			03/16/22 20:15	
,1-Dichloropropene	<0.50	0.50		ug/L			03/16/22 20:15	
,2,3-Trichlorobenzene	<0.50	0.50		ug/L			03/16/22 20:15	
,2,3-Trichloropropane	<0.50	0.50		ug/L			03/16/22 20:15	
,2,4-Trichlorobenzene	<0.50	0.50		ug/L			03/16/22 20:15	
,2,4-Trimethylbenzene	<0.50	0.50		ug/L			03/16/22 20:15	
,2-Dibromo-3-Chloropropane	<0.20	0.20		ug/L			03/16/22 20:15	
,2-Dibromoethane (EDB)	<0.20	0.20		ug/L			03/16/22 20:15	
,2-Dichlorobenzene	<0.50	0.50		ug/L			03/16/22 20:15	
,2-Dichloroethane	<0.50	0.50		ug/L			03/16/22 20:15	
,2-Dichloropropane	<0.25	0.25		ug/L			03/16/22 20:15	
-Xylene	<0.50	0.50		ug/L			03/16/22 20:15	
n-Xylene & p-Xylene	<0.50	0.50		ug/L			03/16/22 20:15	
,3,5-Trimethylbenzene	<0.50	0.50		ug/L			03/16/22 20:15	
,3-Dichlorobenzene	<0.50	0.50		ug/L			03/16/22 20:15	
,3-Dichloropropane	<0.50	0.50		ug/L			03/16/22 20:15	
,4-Dichlorobenzene	<0.50	0.50		ug/L			03/16/22 20:15	
2,2-Dichloropropane	<0.50	0.50		ug/L			03/16/22 20:15	
2-Chlorotoluene	<0.50	0.50		ug/L			03/16/22 20:15	
	<0.50	0.50		ug/L			03/16/22 20:15	
Benzene	<0.50	0.50		ug/L			03/16/22 20:15	
I-Isopropyltoluene	<0.50	0.50		ug/L			03/16/22 20:15	
Bromobenzene	<0.50	0.50		ug/L			03/16/22 20:15	
Bromochloromethane	<0.50	0.50		ug/L			03/16/22 20:15	
Bromodichloromethane	<0.50	0.50		ug/L			03/16/22 20:15	
Bromoform	<0.50	0.50		ug/L			03/16/22 20:15	
Bromomethane	<0.50	0.50		ug/L			03/16/22 20:15	
Carbon tetrachloride	<0.50	0.50		ug/L			03/16/22 20:15	
Chloroethane	<0.50	0.50		ug/L			03/16/22 20:15	
	<0.50	0.50		•			03/16/22 20:15	
Chlorobenzene				ug/L				
Chloromethane	<0.50	0.50		ug/L			03/16/22 20:15	
Chloroform	<0.50	0.50		ug/L			03/16/22 20:15	
Dibromomethane	<0.50	0.50		ug/L			03/16/22 20:15	
Dichlorodifluoromethane	<0.50	0.50		ug/L			03/16/22 20:15	
Dichloromethane	<0.50	0.50		ug/L			03/16/22 20:15	
Dibromochloromethane Ethylbenzene	<0.50 <0.50	0.50 0.50		ug/L ug/L			03/16/22 20:15 03/16/22 20:15	

RL

0.25

0.25

MDL Unit

ug/L

ug/L

D

Prepared

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

Analyte

Hexachlorobutadiene

Isopropylbenzene

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Result Qualifier

<0.25

<0.25

Lab Sample ID: 810-17720-1 **Matrix: Drinking Water**

Analyzed

03/16/22 20:15

03/16/22 20:15

6

Dil Fac

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

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Isopropyidenzene	<0.25		0.25		ug/L			03/16/22 20:15
Naphthalene	<0.50		0.50		ug/L			03/16/22 20:15
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50		ug/L			03/16/22 20:15
Styrene	<0.50		0.50		ug/L			03/16/22 20:15
Tetrachloroethene	<0.50		0.50		ug/L			03/16/22 20:15
Toluene	<0.50		0.50		ug/L			03/16/22 20:15
Trichloroethylene	<0.50		0.50		ug/L			03/16/22 20:15
Trichlorofluoromethane	<0.50		0.50		ug/L			03/16/22 20:15
Vinyl chloride	<0.20		0.20		ug/L			03/16/22 20:15
tert-Butylbenzene	<0.50		0.50		ug/L			03/16/22 20:15
cis-1,2-Dichloroethylene	<0.50		0.50		ug/L			03/16/22 20:15
cis-1,3-Dichloropropylene	<0.50		0.50		ug/L			03/16/22 20:15
n-Butylbenzene	<0.50		0.50		ug/L			03/16/22 20:15
N-Propylbenzene	<0.50		0.50		ug/L			03/16/22 20:15
sec-Butylbenzene	<0.50		0.50		ug/L			03/16/22 20:15
trans-1,2-Dichloroethylene	<0.50		0.50		ug/L			03/16/22 20:15
trans-1,3-Dichloropropylene	<0.50		0.50		ug/L			03/16/22 20:15
Xylenes, Total	<0.50		0.50		ug/L			03/16/22 20:15
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed
1,2-Dichloroethane-d4 (Surr)	106		70 - 130					03/18/22 04:49
Toluene-d8 (Surr)	95		70 - 130					03/18/22 04:49
4-Bromofluorobenzene (Surr)	81		70 - 130					03/18/22 04:49
1,2-Dichlorobenzene-d4 (Surr)	83		70 - 130					03/18/22 04:49
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					03/16/22 20:15
Toluene-d8 (Surr)	94		70 - 130					03/16/22 20:15
4-Bromofluorobenzene (Surr)	83		70 - 130					03/16/22 20:15
1,2-Dichlorobenzene-d4 (Surr)	81		70 - 130					03/16/22 20:15
Method: 522 - 1,4 Dioxane (0	SC/MS SIM)							
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed
1,4-Dioxane	<0.070		0.070		ug/L		03/21/22 07:41	03/22/22 13:52
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed
1,4-Dioxane-d8 (Surr)	85		70 - 130				03/21/22 07:41	03/22/22 13:52
Method: 525.2 - Semivolatile	-		GC/MS)					
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed
Heptachlor epoxide	<0.021		0.021		ug/L			03/18/22 13:55
Di(2-ethylhexyl)adipate	<0.63		0.63		ug/L		03/17/22 07:44	03/18/22 13:55
Di (2-ethylhexyl)phthalate	<0.63		0.63		ug/L		03/17/22 07:44	03/18/22 13:55
Hexachlorobenzene	<0.10		0.10		ug/L		03/17/22 07:44	03/18/22 13:55
Simazine	<0.073		0.073		ug/L		03/17/22 07:44	03/18/22 13:55
Alachlor	<0.10		0.10		ug/L		03/17/22 07:44	03/18/22 13:55
Atrazine	<0.10		0.10		ug/L		03/17/22 07:44	03/18/22 13:55
Benzo[a]pyrene	<0.021		0.021		ug/L		03/17/22 07:44	03/18/22 13:55
Endrin	<0.010		0.010		ug/L		03/17/22 07:44	03/18/22 13:55
Methoxychlor	<0.10		0.10		ug/L		03/17/22 07:44	03/18/22 13:55
Heptachlor	<0.042		0.042		ug/L		03/17/22 07:44	03/18/22 13:55

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

Lab Sample ID: 810-17720-1 Matrix: Drinking Water

Analyte Hexachlorocyclopentadiene Surrogate 2-Nitro-m-xylene Perylene-d12 Triphenylphosphate Method: 548.1 - Endothall (G Analyte Endothall	<0.10 %Recovery 100 89 100	Qualifier Qualifier	RL 0.10 Limits 70 - 130 70 - 130 70 - 130 70 - 130	MDL	Unit ug/L	<u> </u>	Prepared 03/17/22 07:44	Analyzed 03/18/22 13:55	Dil Fac
2-Nitro-m-xylene Perylene-d12 Triphenylphosphate Method: 548.1 - Endothall (G Analyte	100 89 100	Qualifier	70 - 130 70 - 130		-				
2-Nitro-m-xylene Perylene-d12 Triphenylphosphate Method: 548.1 - Endothall (G Analyte	100 89 100	Qualifier	70 - 130 70 - 130						
Perylene-d12 Triphenylphosphate Method: 548.1 - Endothall (G Analyte	89 100		70 - 130				Prepared	Analyzed	Dil Fac
Triphenylphosphate Method: 548.1 - Endothall (G Analyte	100						03/17/22 07:44	03/18/22 13:55	1
Method: 548.1 - Endothall (G Analyte			70 120					03/18/22 13:55	1
Analyte	C/MS)		10-150				03/17/22 07:44	03/18/22 13:55	1
Analyte									
Endothall	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endethall	<5.0		5.0		ug/L		03/15/22 06:53	03/17/22 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenoxyacetic acid	110		70 - 130				03/15/22 06:53	03/17/22 04:38	1
(Surr)									
Method: 504.1 - EDB, DBCP a	and 1,2,3-TCI	P (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	<0.0099		0.0099		ug/L		03/15/22 10:15	03/16/22 05:04	1
1,2-Dibromo-3-Chloropropane	<0.0099		0.0099		ug/L		03/15/22 10:15	03/16/22 05:04	1
Method: 505 - Organochlorin	e Pesticides	PCBs (GC	3						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.080		0.080		ug/L		03/16/22 09:55	03/16/22 22:47	1
PCB-1221	<0.19		0.19		ug/L		03/16/22 09:55	03/16/22 22:47	1
PCB-1232	<0.23		0.23		ug/L		03/16/22 09:55	03/16/22 22:47	1
PCB-1242	<0.26		0.26		ug/L		03/16/22 09:55	03/16/22 22:47	
PCB-1248	<0.10		0.10		ug/L		03/16/22 09:55	03/16/22 22:47	
PCB-1254	<0.10		0.10		ug/L		03/16/22 09:55	03/16/22 22:47	
PCB-1260	<0.20		0.20		ug/L		03/16/22 09:55	03/16/22 22:47	• • • • •
Chlordane (technical)	<0.10		0.10		ug/L		03/16/22 09:55	03/16/22 22:47	
Toxaphene	<1.0		1.0		ug/L		03/16/22 09:55	03/16/22 22:47	
Total PCBs as DCB (Qualitative)	<0.50		0.50		ug/L		03/16/22 09:55	03/16/22 22:47	1
Method: 515.3 - Herbicides (GC)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	<0.10		0.10		ug/L		03/22/22 07:29	03/22/22 22:48	1
Dalapon	<1.0		1.0		ug/L		03/22/22 07:29	03/22/22 22:48	1
Dinoseb	<0.10		0.10		ug/L		03/22/22 07:29	03/22/22 22:48	1
Pentachlorophenol	<0.040		0.040		ug/L		03/22/22 07:29	03/22/22 22:48	1
Picloram	<0.10		0.10		ug/L		03/22/22 07:29	03/22/22 22:48	1
2,4-D	<0.10		0.10		ug/L		03/22/22 07:29	03/22/22 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
2,4-Dichlorophenylacetic acid	93		70 - 130					03/22/22 22:48	

Analyte	Result C	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<1.0		1.0	ι	ug/L		03/23/22 10:03	03/24/22 02:28	1
Dichloroacetonitrile	<0.50		0.50	ι	ug/L		03/23/22 10:03	03/24/22 02:28	1
Dibromoacetonitrile	<0.50		0.50	ι	ug/L		03/23/22 10:03	03/24/22 02:28	1
1,1-Dichloro-2-propanone	<0.50		0.50	ι	ug/L		03/23/22 10:03	03/24/22 02:28	1
Trichloroacetonitrile	<0.50		0.50	ι	ug/L		03/23/22 10:03	03/24/22 02:28	1

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Job ID: 810-17720-1

Matrix: Drinking Water

5

6

Lab Sample ID: 810-17720-1

Client Sample ID: Well B Date Collected: 03/10/22 12:10

Analyte			s and Solver						
· · · · · · · · · · · · · · · · · · ·		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Chloroform	<1.0		1.0		ug/L		03/23/22 10:03		1
Bromoform	<1.0		1.0		ug/L			03/24/22 02:28	1
Bromodichloromethane	<1.0		1.0		ug/L			03/24/22 02:28	1
Chloropicrin	<0.50		0.50		ug/L			03/24/22 02:28	1
Bromochloroacetonitrile	<0.50		0.50		ug/L			03/24/22 02:28	1
1,1,1-Trichloro-2-propanone	<0.50		0.50		ug/L		03/23/22 10:03	03/24/22 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	100						03/23/22 10:03	03/24/22 02:28	1
Method: 552.2 THAA - Tota	al Haloacetic Ad	cids (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Haloacetic Acids 5	<2.000		2.000		ug/L			03/21/22 10:53	1
Method: 552.2 - Haloacetic	Acids (HAAs)	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromoacetic acid	<1.0		1.0		ug/L	_	03/17/22 08:11	03/18/22 21:43	1
Dichloroacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 21:43	1
Monobromoacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 21:43	1
Monochloroacetic acid	<2.0		2.0		ug/L		03/17/22 08:11	03/18/22 21:43	1
Trichloroacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Bromopropionic acid (Surr)	95		70 - 130				03/17/22 08:11		1
Method: 300.0 - Anions, Io Analyte Chloride	-	Qualifier	RL	MDL	Unit mg/L	D	Prepared	Analyzed 03/15/22 19:02	Dil Fac
Chlorite	<10		10		ug/L			03/15/22 22:10	1
Chlorate	<10		10		ug/L			02/15/22 22:10	
Univiale	N				uy/L			03/15/22 22:10	1
Sulfate			5.0					03/15/22 22.10	1
	19 23				mg/L ug/L				
Sulfate Bromide	19 23	phy	5.0		mg/L			03/15/22 19:02	1
Sulfate	19 23 n Chromatogra	<mark>phy</mark> Qualifier	5.0	MDL	mg/L ug/L	D	Prepared	03/15/22 19:02	1
Sulfate Bromide Method: 317 - Bromate, Ion	19 23 n Chromatogra		5.0 10	MDL	mg/L ug/L	<u>D</u>	Prepared	03/15/22 19:02 03/15/22 22:10	1
Sulfate Bromide Method: 317 - Bromate, Ion Analyte Bromate	19 23 n Chromatogra 	Qualifier	5.0 10 	MDL	mg/L ug/L Unit	D	Prepared	03/15/22 19:02 03/15/22 22:10 Analyzed	1 1 Dil Fac
Sulfate Bromide Method: 317 - Bromate, Ion Analyte	19 23 n Chromatogra <u>Result</u> <1.0 e Pesticides (H	Qualifier	5.0 10 	MDL MDL	mg/L ug/L Unit ug/L	D	Prepared Prepared	03/15/22 19:02 03/15/22 22:10 Analyzed	1 1 Dil Fac 1
Sulfate Bromide Method: 317 - Bromate, log Analyte Bromate Method: 531.2 - Carbamate	19 23 n Chromatogra <u>Result</u> <1.0 e Pesticides (H	Qualifier PLC) - Diss	5.0 10 <u>RL</u> 1.0		mg/L ug/L Unit ug/L	Ξ	<u>.</u>	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02	1 Dil Fac 1 Dil Fac
Sulfate Bromide Method: 317 - Bromate, Ion Analyte Bromate Method: 531.2 - Carbamate Analyte	19 23 n Chromatogra Result <1.0 e Pesticides (H Result	Qualifier PLC) - Diss	5.0 10 		mg/L ug/L Unit ug/L Unit	Ξ	<u>.</u>	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed	1 Dil Fac 1 Dil Fac
Sulfate Bromide Method: 317 - Bromate, Ion Analyte Bromate Method: 531.2 - Carbamate Analyte Aldicarb	19 23 n Chromatogra <u>Result</u> <1.0 e Pesticides (H <u>Result</u> <0.50	Qualifier PLC) - Diss	5.0 10 RL 1.0 Solved RL 0.50		mg/L ug/L Unit ug/L Unit ug/L	Ξ	<u>.</u>	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed 03/19/22 05:50	1 1 Dil Fac 1 Dil Fac
Sulfate Bromide Method: 317 - Bromate, Iou Analyte Bromate Method: 531.2 - Carbamate Analyte Aldicarb Aldicarb sulfone	19 23 n Chromatogra <u>Result</u> <1.0 e Pesticides (H <u>Result</u> <0.50 <0.70 <0.50	Qualifier PLC) - Diss	5.0 10 RL 1.0 Solved RL 0.50 0.70		mg/L ug/L Unit ug/L Unit ug/L ug/L ug/L	Ξ	<u>.</u>	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed 03/19/22 05:50 03/19/22 05:50	1 1
Sulfate Bromide Method: 317 - Bromate, Ion Analyte Bromate Method: 531.2 - Carbamate Analyte Aldicarb Aldicarb sulfone Aldicarb sulfoxide	19 23 n Chromatogra Result <1.0 e Pesticides (H Result <0.50 <0.70	Qualifier PLC) - Diss	5.0 10 RL 1.0 Solved RL 0.50 0.70 0.50		mg/L ug/L Unit ug/L Unit ug/L ug/L	Ξ	<u>.</u>	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50	1 1 Dil Fac 1 Dil Fac 1 1 1 1
Sulfate Bromide Method: 317 - Bromate, Ion Analyte Bromate Method: 531.2 - Carbamate Analyte Aldicarb Aldicarb sulfone Aldicarb sulfone Carbofuran Oxamyl	19 23 n Chromatogra Result <1.0 Pesticides (H Result <0.50 <0.70 <0.50 <0.90 <1.0	Qualifier PLC) - Diss Qualifier	5.0 10 RL 1.0 Solved RL 0.50 0.70 0.50 0.90		mg/L ug/L Unit ug/L Ug/L ug/L ug/L ug/L	Ξ	<u>.</u>	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50	1 1 1 1 1 1 1 1 1 1
Sulfate Bromide Method: 317 - Bromate, Ion Analyte Bromate Method: 531.2 - Carbamate Analyte Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbofuran Oxamyl Method: 547 - Glyphosate	19 23 n Chromatogra https://www.science.com https://www.science.com e Pesticides (H e Pesticides (H Result <0.50	Qualifier PLC) - Diss Qualifier	5.0 10 RL 1.0 Solved RL 0.50 0.70 0.50 0.90 1.0	MDL	mg/L ug/L Unit ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	Prepared	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50	1 1 1 1 1 1 1 1 1 1 1
Sulfate Bromide Method: 317 - Bromate, Ion Analyte Bromate Method: 531.2 - Carbamate Analyte Aldicarb Aldicarb sulfone Aldicarb sulfone Carbofuran Oxamyl	19 23 n Chromatogra https://www.science.com https://www.science.com e Pesticides (H e Pesticides (H Result <0.50	Qualifier PLC) - Diss Qualifier	5.0 10 RL 1.0 Solved RL 0.50 0.70 0.50 0.90		mg/L ug/L Unit ug/L ug/L ug/L ug/L ug/L ug/L	Ξ	<u>.</u>	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sulfate Bromide Method: 317 - Bromate, lon Analyte Bromate Method: 531.2 - Carbamate Analyte Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbofuran Oxamyl Method: 547 - Glyphosate Analyte Glyphosate	19 23 n Chromatogra Result <1.0 Pesticides (H Result <0.50 <0.70 <0.50 <0.90 <1.0 (DAI HPLC) - D Result <6.0	Qualifier PLC) - Diss Qualifier issolved Qualifier	5.0 10 RL 1.0 Solved RL 0.50 0.70 0.50 0.90 1.0 RL	MDL	mg/L ug/L Unit ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	Prepared	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50	1 Dil Fac 1 Dil Fac 1 1 1 1 1 2 Dil Fac
Sulfate Bromide Method: 317 - Bromate, Ion Analyte Bromate Method: 531.2 - Carbamate Analyte Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbofuran Oxamyl Method: 547 - Glyphosate Analyte	19 23 n Chromatogra Result <1.0 e Pesticides (H Result <0.50 <0.70 <0.50 <0.90 <1.0 (DAI HPLC) - D Result <6.0 d Paraquat (HP	Qualifier PLC) - Diss Qualifier issolved Qualifier	5.0 10 RL 1.0 Solved RL 0.50 0.70 0.50 0.90 1.0 RL	MDL	mg/L ug/L Unit ug/L ug/L ug/L ug/L ug/L Unit ug/L	<u>D</u>	Prepared	03/15/22 19:02 03/15/22 22:10 Analyzed 03/17/22 00:02 Analyzed 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50 03/19/22 05:50	1 1 Dil Fac

RL

RL

0.050

MDL Unit

MDL Unit

ug/L

D

D

Prepared

Prepared

Result Qualifier

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Result Qualifier

0.70

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

Analyte

Analyte

Perchlorate

13C3 HFPO-DA

Method: 331.0 - Perchlorate (LC/MS/MS)

Job ID: 810-17720-1

Lab Sample ID: 810-17720-1 Matrix: Drinking Water

Analyzed

03/17/22 18:42

Analyzed

720-1 Water 4 Dil Fac 5 1 6

Dil Fac

14 15 16

<1.9 <1.9		1.9	ng/L		03/17/22 02:24	1
<1.9						
		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
			•			1
			•			1
			· · · · · · · · · · · · · · · · · · ·			
			•			1
			•			1
			•			1
			ng/L			1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
<1.9		1.9	ng/L	03/16/22 06:28	03/17/22 02:24	1
%Recoverv	Qualifier	Limits		Prepared	Analyzed	Dil Fac
91		50 - 200				1
85		50 - 200		03/16/22 06:28	03/17/22 02:24	1
		50 - 200				1
						1
						1
						1
						1
78		50 - 200		03/16/22 06:28	03/17/22 02:24	1
	<1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9	<1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9	<1.91.9<1.9	<1.9 1.9 ng/L <1.9 1.9 ng/L <t< td=""><td><1.9 1.9 1.9 ng/L $03/16/22 06:28$ <1.9 <td< td=""><td><1.9</td> 1.9 ng/L 03/16/22 06:28 03/17/22 02:24 <1.9</td<></td> 1.9 ng/L 03/16/22 06:28 03/17/22 02:24 <1.9</t<>	<1.9 1.9 1.9 ng/L $03/16/22 06:28$ <1.9 <td< td=""><td><1.9</td> 1.9 ng/L 03/16/22 06:28 03/17/22 02:24 <1.9</td<>	<1.9

Eurofins Eaton South Bend

03/16/22 06:28 03/17/22 02:24

50 - 200

87

1

5

6

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

Lab Sample ID: 810-17720-1 Matrix: Drinking Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)										
Isotope Dilution	%Recovery		Limits				Prepared	Analyzed	Dil Fac	
13C3 PFBS	86		50 - 200				03/16/22 06:28	03/17/22 02:24	1	
13C8 PFOS	94		50 - 200				03/16/22 06:28	03/17/22 02:24	1	
13C2-4:2-FTS	90		50 - 200				03/16/22 06:28	03/17/22 02:24	1	
13C2-6:2-FTS	96		50 - 200				03/16/22 06:28	03/17/22 02:24	1	
13C2-8:2-FTS	98		50 - 200				03/16/22 06:28	03/17/22 02:24	1	
13C3 PFHxS	89		50 - 200				03/16/22 06:28	03/17/22 02:24	1	
Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)										
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorohexanoic acid (PFHxA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorooctanoic acid (PFOA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorotetradecanoic acid (PFTeDA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Perfluorotridecanoic acid (PFTrDA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		03/16/22 07:55	03/17/22 19:20	1	

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98	70 - 130	03/16/22 07:55	03/17/22 19:20	1
13C2 PFDA	92	70 - 130	03/16/22 07:55	03/17/22 19:20	1
13C3 HFPO-DA	97	70 - 130	03/16/22 07:55	03/17/22 19:20	1
d5-NEtFOSAA	86	70 - 130	03/16/22 07:55	03/17/22 19:20	1

Method: 1613B - Tetra Chlorinated Dioxin in Drinking Water

Analyte	Result Qualifie	er RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<4.1	4.1		pg/L		03/21/22 15:00	03/23/22 00:40	1
Isotope Dilution	%Recovery Qualifi	er Limits				Prepared	Analyzed	Dil Fac

Method: 200.7 - Metals (ICP)								
Analyte	Result C	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	6.7	0.10		mg/L			03/18/22 14:31	1
Magnesium	16	0.10		mg/L			03/18/22 14:31	1
Iron	<0.020	0.020		mg/L			03/18/22 14:31	1
Calcium	110	0.10		mg/L			03/18/22 14:31	1

RL

MDL Unit

D

Prepared

Result Qualifier

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

Analyte

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 810-17720-1 Matrix: Drinking Water

Matrix: Drinking Water

Analyzed

	Result	Quaimer	RL	NUDL	Unit	-	Prepared	Analyzed	DIFAC
Antimony	<1.0		1.0		ug/L			03/17/22 15:39	1
Arsenic	<1.0		1.0		ug/L			03/17/22 15:39	1
Barium	35		2.0		ug/L			03/17/22 15:39	1
Beryllium	<0.30		0.30		ug/L			03/17/22 15:39	1
Cadmium	<0.50		0.50		ug/L			03/17/22 15:39	1
Chromium	3.9		0.90		ug/L			03/17/22 15:39	1
Copper	<1.0		1.0		ug/L			03/17/22 15:39	1
Lead	<0.50		0.50		ug/L			03/17/22 15:39	1
Manganese	<2.0		2.0		ug/L			03/17/22 15:39	1
Nickel	1.4		1.0		ug/L			03/17/22 15:39	1
Selenium	<2.0		2.0		ug/L			03/17/22 15:39	1
Silver	<0.50		0.50		ug/L			03/17/22 15:39	1
Thallium	<0.30		0.30		ug/L			03/17/22 15:39	1
Zinc	15		5.0		ug/L			03/17/22 15:39	1
Method: 245.1 - Mercury (CVAA Analyte Mercury		Qualifier		MDL	Unit ug/L	_ <u>D</u>	Prepared 03/18/22 11:54	Analyzed 03/18/22 16:02	Dil Fac
	-0.10		0.10		ug/L		00/10/22 11:04	00/10/22 10:02	1
Method: SM 2340B - Total Hard	lness (as C	CaCO3) by	calculation						
Analyte	•	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	340		0.66		mg/L			03/20/22 17:00	1
Calcium hardness as calcium carbonate	270		0.25		mg/L			03/20/22 17:00	1
Magnesium hardness as calcium carbonate	66		0.41		mg/L			03/20/22 17:00	1
General Chemistry									
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
General Chemistry	Result <0.0050	Qualifier	RL 0.0050	MDL	Unit mg/L	_ <u>D</u>	Prepared 03/18/22 06:45	Analyzed 03/18/22 11:11	Dil Fac
General Chemistry Analyte				MDL	-	_ <u>D</u>			
General Chemistry Analyte Cyanide, Total	<0.0050	н	0.0050	MDL	mg/L	<u>D</u>		03/18/22 11:11	1
General Chemistry Analyte Cyanide, Total Nitrite as N	<0.0050 <0.010	H H	0.0050	MDL	mg/L mg/L	<u>D</u>		03/18/22 11:11 03/15/22 10:12	1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N	<0.0050 <0.010 5.5 <0.50	H H	0.0050 0.010 0.10	MDL	mg/L mg/L mg/L	<u> </u>		03/18/22 11:11 03/15/22 10:12 03/15/22 14:22	1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine	<0.0050 <0.010 5.5	H H	0.0050 0.010 0.10 0.50	MDL	mg/L mg/L mg/L mg/L	_ <u>D</u>		03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17	1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N	<0.0050 <0.010 5.5 <0.50 5.5	H H	0.0050 0.010 0.10 0.50 0.10	MDL	mg/L mg/L mg/L mg/L mg/L	<u>D</u>		03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24	1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent	<0.0050 <0.010 5.5 <0.50 5.5 <5.0	H H	0.0050 0.010 0.10 0.50 0.10 5.0	MDL	mg/L mg/L mg/L mg/L Color Units uS/cm	<u>D</u>		03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23	1 1 1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride	<0.0050 <0.010 5.5 <0.50 5.5 <5.0 690 0.090	H H HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49	1 1 1 1 1 1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte	<0.0050 <0.010 5.5 <0.50 5.5 <5.0 690 0.090 Result	H H HF Qualifier	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit	<u>D</u>		03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49 Analyzed	1 1 1 1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH	<0.0050 <0.010 5.5 <0.50 5.5 <5.0 690 0.090 Result 7.3	H H HF Qualifier	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 14:27	1 1 1 1 1 1 1 1 1 Dil Fac
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity	<0.0050 <0.010 5.5 <0.50 5.5 <5.0 690 0.090 Result 7.3 0.35	H H HF Qualifier HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 14:27 03/11/22 14:27	1 1 1 1 1 1 1 1 Dil Fac 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine	<0.0050 <0.010 5.5 <0.50 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10	H H HF Qualifier HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 14:27 03/11/22 14:27 03/11/22 16:05 03/11/22 16:31	1 1 1 1 1 1 1 1 Dil Fac 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine Dichloramine	<0.0050 <0.010 5.5 <0.50 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10 <0.10	H H HF HF HF HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10 0.10		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L mg/L	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/16/22 08:49 Analyzed 03/11/22 08:49 03/11/22 14:27 03/11/22 16:05 03/11/22 16:31 03/11/22 16:31	1 1 1 1 1 1 1 1 1 Dil Fac 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine Dichloramine Nitrogen trichloride	<0.0050 <0.010 5.5 <0.50 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10 <0.10 <0.20	H H HF HF HF HF HF HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10 0.10 0.10 0.20		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L mg/L mg/L	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 08:49 Analyzed 03/11/22 14:27 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31	1 1 1 1 1 1 1 1 Dil Fac 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine Dichloramine Nitrogen trichloride Chloramines, Total	<0.0050 <0.010 5.5 <0.50 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10 <0.10 <0.20 <0.20	H H HF HF HF HF HF HF HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10 0.10 0.20 0.20		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L mg/L mg/L mg/L	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 08:49 03/11/22 16:50 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31	1 1 1 1 1 1 1 1 Dil Fac 1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine Dichloramine Nitrogen trichloride Chloramines, Total Chlorine dioxide, Residual	<0.0050 <0.010 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10 <0.10 <0.20 <0.20 <0.24	H H HF HF HF HF HF HF HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10 0.10 0.20 0.20 0.24		mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L mg/L mg/L mg/L mg/L	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 16:51 03/11/22 16:51 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine Dichloramine Nitrogen trichloride Chloramines, Total Chlorine dioxide, Residual Odor	<0.0050 <0.010 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10 <0.20 <0.20 <0.24 <1.0	H H HF HF HF HF HF HF HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10 0.10 0.20 0.20 0.24 1.0		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L mg/L mg/L mg/L mg/L T.O.N.	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 16:05 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine Dichloramine Nitrogen trichloride Chloramines, Total Chlorine dioxide, Residual Odor Alkalinity, Bicarbonate	<0.0050 <0.010 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10 <0.20 <0.20 <0.24 <1.0 280	H H HF HF HF HF HF HF HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10 0.10 0.20 0.20 0.24 1.0 1.0		mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L mg/L mg/L mg/L T.O.N. mg/L	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 16:05 03/11/22 16:31 03/11/22 14:58	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine Dichloramine, Nitrogen trichloride Chlorine dioxide, Residual Odor Alkalinity, Bicarbonate Alkalinity, Total	<0.0050 <0.010 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10 <0.20 <0.20 <0.20 <0.24 <1.0 280 280	H H HF HF HF HF HF HF HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10 0.10 0.10 0.20 0.20 0.20		mg/L mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L mg/L mg/L mg/L T.O.N. mg/L mg/L mg/L	 	03/18/22 06:45	03/18/22 11:11 03/18/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/16/22 19:50 03/11/22 14:27 03/11/22 14:27 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 16:31 03/11/22 14:58 03/11/22 14:58 03/18/22 19:49 03/18/22 19:49	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
General Chemistry Analyte Cyanide, Total Nitrite as N Nitrate Nitrite as N Free Chlorine Nitrate as N Color, Apparent Specific Conductance Fluoride Analyte pH Turbidity Monochloramine Dichloramine Nitrogen trichloride Chloramines, Total Chlorine dioxide, Residual Odor Alkalinity, Bicarbonate	<0.0050 <0.010 5.5 <5.0 690 0.090 Result 7.3 0.35 <0.10 <0.20 <0.20 <0.24 <1.0 280	H H HF HF HF HF HF HF HF	0.0050 0.010 0.10 0.50 0.10 5.0 2.0 0.050 RL 0.1 0.10 0.10 0.10 0.20 0.20 0.24 1.0 1.0		mg/L mg/L mg/L Color Units uS/cm mg/L Unit SU NTU mg/L mg/L mg/L mg/L T.O.N. mg/L	 	03/18/22 06:45	03/18/22 11:11 03/15/22 10:12 03/15/22 14:22 03/11/22 18:17 03/18/22 11:24 03/11/22 15:23 03/16/22 19:50 03/16/22 19:50 03/18/22 08:49 Analyzed 03/11/22 16:05 03/11/22 16:31 03/11/22 14:58	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

Job ID: 810-17720-1

Lab Sample ID: 810-17720-1 Matrix: Drinking Water

Date Received: 03											
Method: 7110B -	Gross Alpha	a and Gros									
			Count	Total							
			Uncert.	Uncert.							
Analyte		Qualifier	(σ+/-)	(σ+/-)	RL	MDC			Prepared	Analyzed	Dil Fa
Gross Alpha	2.93				3.00	1.73	•		03/18/22 10:21	04/08/22 08:36	
Gross Beta	7.27				4.00	2.10) pCi/L		03/18/22 10:21	04/08/22 08:36	
Method: 7500 Ra	D - Radium	226 Radiu	m 228 Con	nbined							
			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(σ+/-)	(σ+/-)	RL	MDC	Unit		Prepared	Analyzed	Dil Fa
Combined Radium 226 + 228	0.870				1.00	0.670	pCi/L			04/21/22 16:02	
Method: SM7500	Ra B - Radi	um-226									
			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(σ+/-)	(σ+/-)	RL	MDC	Unit		Prepared	Analyzed	Dil Fa
Ra-226	-0.0100		<u> </u>	<u>·</u>	1.00	0.110	pCi/L		03/18/22 07:56	03/29/22 09:47	
Method: SM7500	Ra D - Radi	um-228									
			Count	Total							
			Uncert.	Uncert.							
Analyte		Qualifier	(σ+/-)	(σ+/-)	RL		Unit		Prepared	Analyzed	Dil Fa
Ra-228	0.870				1.00	0.670) pCi/L		03/18/22 07:52	04/14/22 11:06	
Method: SM7500	_Rn_B - Rad	don	Count Uncert.	Total Uncert.							
Analyte	Result	Qualifier	(σ+/-)	(σ+/-)	RL	MDC	Unit		Prepared	Analyzed	Dil Fa
Radon 222	75.3				12.0	9.80	pCi/L		03/11/22 12:43	03/12/22 05:29	
Method: 9223B -	Coliforms,		•					-	Duo u o uo d	Amelymed	
Analyte			lt Qualifier	NONE	N			_ <u>D</u>	Prepared	Analyzed	Dil Fa
Escherichia coli		PRESEN					NE			03/14/22 15:26	
Coliform, Total		PRESEN	н			NC	NE			03/14/22 15:26	
Method: SimPlat	e - Heterotro	ophic Plate	Count (HF	PC)							
Analyte		Resu	It Qualifier	RL		RL Un	it	D	Prepared	Analyzed	Dil Fa
Heterotrophic Plate	Count	27	<u>′0</u>	2.0		MF	N/mL			03/11/22 11:44	
light Sample								1	ah Samala		720 (
lient Sample								L		e ID: 810-17	
ate Collected: 03									Ма	trix: Drinking	y vvate
ate Received: 03	011/22 09:15										
Method: 524.2 - ⁻	Fotal Tribalo	methanes									
Analyte			It Qualifier	RL		MDL Un	it	D	Prepared	Analyzed	Dil Fa
Trihalomethanes, Tota	I	<0.500		0.5000		<u>ug</u>				03/18/22 10:47	
						Ū					
Method: 524.2 -	Volatile Orga					MD:		_	D	A	D.: -
Analyte			lt Qualifier			MDL Un		_ D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroeth	ane	<0.5		0.50		ug	'L			03/16/22 19:52	
											
Bromodichloromethan 1,1,1-Trichloroethane	e	<0.5 <0.5		0.50 0.50		ug. ug.				03/18/22 05:13 03/16/22 19:52	

RL

0.50

0.50

0.50

0.50

MDL Unit

ug/L

ug/L

ug/L

ug/L

D

Prepared

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

Analyte

Bromoform

Chloroform

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

Tetrachloroethene

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Result Qualifier

<0.50

<0.50

<0.50

< 0.50

Lab Sample ID: 810-17720-2 Matrix: Drinking Water

Analyzed

03/18/22 05:13

03/16/22 19:52

03/18/22 05:13

03/16/22 19:52

Dil Fac

1

1

1

1

1, 1,2- Inchioroethane	<0.50	0.50	ug/L	03/10/22 19.52
Dibromochloromethane	<0.50	0.50	ug/L	03/18/22 05:13 1
1,1-Dichloroethane	<0.50	0.50	ug/L	03/16/22 19:52 1
1,1-Dichloroethene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,1-Dichloropropene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,2,3-Trichloropropane	<0.50	0.50	ug/L	03/16/22 19:52 1
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,2-Dibromo-3-Chloropropane	<0.20	0.20	ug/L	03/16/22 19:52 1
1,2-Dibromoethane (EDB)	<0.20	0.20	ug/L	03/16/22 19:52 1
1,2-Dichlorobenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,2-Dichloroethane	<0.50	0.50	ug/L	03/16/22 19:52 1
1,2-Dichloropropane	<0.25	0.25	ug/L	03/16/22 19:52 1
o-Xylene	<0.50	0.50	ug/L	03/16/22 19:52 1
m-Xylene & p-Xylene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,3-Dichlorobenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
1,3-Dichloropropane	<0.50	0.50	ug/L	03/16/22 19:52 1
1,4-Dichlorobenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
2,2-Dichloropropane	<0.50	0.50	ug/L	03/16/22 19:52 1
2-Chlorotoluene	<0.50	0.50	ug/L	03/16/22 19:52 1
4-Chlorotoluene	<0.50	0.50	ug/L	03/16/22 19:52 1
Benzene	<0.50	0.50	ug/L	03/16/22 19:52 1
4-Isopropyltoluene	<0.50	0.50	ug/L	03/16/22 19:52 1
Bromobenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
Bromochloromethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Bromodichloromethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Bromoform	<0.50	0.50	ug/L	03/16/22 19:52 1
Bromomethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Carbon tetrachloride	<0.50	0.50	ug/L	03/16/22 19:52 1
Chloroethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Chlorobenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
Chloromethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Chloroform	<0.50	0.50	ug/L	03/16/22 19:52 1
Dibromomethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Dichlorodifluoromethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Dichloromethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Dibromochloromethane	<0.50	0.50	ug/L	03/16/22 19:52 1
Ethylbenzene	<0.50	0.50	ug/L	03/16/22 19:52 1
Hexachlorobutadiene	<0.25	0.25	ug/L	03/16/22 19:52 1
Isopropylbenzene	<0.25	0.25	ug/L	03/16/22 19:52 1
Naphthalene	<0.50	0.50	ug/L	03/16/22 19:52 1
Methyl-tert-butyl Ether (MTBE)	<0.50	0.50	ug/L	03/16/22 19:52 1
Styrene	<0.50	0.50	ug/L	03/16/22 19:52 1

Eurofins Eaton South Bend

03/16/22 19:52

0.50

ug/L

< 0.50

1

RL

0.50

0.50

0.50

0.20

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

Limits

70 - 130

70 - 130

70 - 130

MDL Unit

ug/L

ug/L

ug/L

ug/L

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

Analyte

Toluene

Trichloroethylene

tert-Butylbenzene

n-Butylbenzene

N-Propylbenzene

sec-Butylbenzene

Xylenes, Total

Toluene-d8 (Surr)

Surrogate

Vinyl chloride

Trichlorofluoromethane

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropylene

trans-1,2-Dichloroethylene

trans-1,3-Dichloropropylene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Result Qualifier

<0.50

<0.50

<0.50

<0.20

<0.50

<0.50

<0.50

<0.50

<0.50

<0.50

<0.50

< 0.50

<0.50

%Recovery Qualifier

101

94

78

Lab Sample ID: 810-17720-2 **Matrix: Drinking Water**

Analyzed

03/16/22 19:52

03/16/22 19:52

03/16/22 19:52

03/16/22 19:52

Dil Fac	
1	_
1	
1	
1	
1	
1	
1	
1	

ug/L		03/16/22 19:52	1
ug/L		03/16/22 19:52	1
ug/L		03/16/22 19:52	1
ug/L		03/16/22 19:52	1
ug/L		03/16/22 19:52	1
ug/L		03/16/22 19:52	1
ug/L		03/16/22 19:52	1
ug/L		03/16/22 19:52	1
ug/L		03/16/22 19:52	1
	Prepared	Analyzed	Dil Fac
		03/18/22 05:13	1
		03/18/22 05:13	1
		03/18/22 05:13	1
		03/18/22 05:13	1
		03/16/22 10.52	1

D

Prepared

Method: 522 - 1,4 Dioxane (GC Analyte	/ <mark>MS SIM)</mark> Result Qualifie	er RL	MDL Unit	D	Prepared	Analvzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	87	70 - 130				03/16/22 19:52	1
4-Bromofluorobenzene (Surr)	87	70 - 130				03/16/22 19:52	1
Toluene-d8 (Surr)	97	70 - 130				03/16/22 19:52	1
1,2-Dichloroethane-d4 (Surr)	103	70 - 130				03/16/22 19:52	1
1,2-Dichlorobenzene-d4 (Surr)	81	70 - 130				03/18/22 05:13	1

1,4-Dioxane	<0.070	0.070	ug/L	03/21/22 07:41	03/22/22 14:16	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82	70 - 130		03/21/22 07:41	03/22/22 14:16	1

Method: 525.2 - Semivolati	ile Organic Com	npounds (0	GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	< 0.020		0.020		ug/L		03/18/22 07:44	03/21/22 21:50	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		03/18/22 07:44	03/21/22 21:50	1
Di (2-ethylhexyl)phthalate	<0.59		0.59		ug/L		03/18/22 07:44	03/21/22 21:50	1
Hexachlorobenzene	<0.098		0.098		ug/L		03/18/22 07:44	03/21/22 21:50	1
Simazine	<0.068		0.068		ug/L		03/18/22 07:44	03/21/22 21:50	1
Alachlor	<0.098		0.098		ug/L		03/18/22 07:44	03/21/22 21:50	1
Atrazine	<0.098		0.098		ug/L		03/18/22 07:44	03/21/22 21:50	1
Benzo[a]pyrene	<0.020		0.020		ug/L		03/18/22 07:44	03/21/22 21:50	1
Endrin	<0.0098		0.0098		ug/L		03/18/22 07:44	03/21/22 21:50	1
Methoxychlor	<0.098		0.098		ug/L		03/18/22 07:44	03/21/22 21:50	1
Heptachlor	<0.039		0.039		ug/L		03/18/22 07:44	03/21/22 21:50	1
Hexachlorocyclopentadiene	<0.098		0.098		ug/L		03/18/22 07:44	03/21/22 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130				03/18/22 07:44	03/21/22 21:50	1
Perylene-d12	93		70 - 130				03/18/22 07:44	03/21/22 21:50	1
Triphenylphosphate	106		70 - 130				03/18/22 07:44	03/21/22 21:50	1

RL

5.0

RL

0.010

0.010

RL

0.080

0.19

0.23

0.26

0.10

0.10

0.20

0.10

1.0

0.50

RL

1.0

0.10

0.040

0.10

0.10

0.10

Limits

70 - 130

MDL Unit

MDL

ug/L

Unit

ug/L

Unit

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

MDL

MDL Unit

D

D

D

D

Prepared

Prepared

Prepared

Prepared

03/16/22 09:55

Result Qualifier

Result Qualifier

Result Qualifier

Qualifier

<5.0

104

< 0.010

< 0.010

<0.080

<0.19

<0.23

<0.26

<0.10

<0.10

< 0.20

< 0.10

<1.0

<0.50

<0.10

<1.0

<0.10

<0.040

< 0.10

< 0.10

Result Qualifier

%Recovery

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

2,4-Dichlorophenoxyacetic acid

1,2-Dibromoethane (EDB)

1,2-Dibromo-3-Chloropropane

Analyte

Endothall

Surrogate

(Surr)

Analyte

Analyte

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

Toxaphene

Analyte

Dalapon

Dinoseb

Picloram

2,4-D

2,4,5-TP (Silvex)

Pentachlorophenol

Chlordane (technical)

Total PCBs as DCB (Qualitative)

Method: 515.3 - Herbicides (GC)

Method: 548.1 - Endothall (GC/MS)

Method: 504.1 - EDB, DBCP and 1.2.3-TCP (GC)

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Lab Sample ID: 810-17720-2 **Matrix: Drinking Water**

03/15/22 06:53 03/17/22 04:53

03/15/22 06:53 03/17/22 04:53

03/15/22 10:15 03/16/22 05:30

03/15/22 10:15 03/16/22 05:30

03/16/22 09:55 03/16/22 23:14

03/16/22 09:55 03/16/22 23:14

03/16/22 09:55 03/16/22 23:14

03/16/22 09:55 03/16/22 23:14

03/16/22 09:55 03/16/22 23:14 03/16/22 09:55 03/16/22 23:14

03/16/22 09:55 03/16/22 23:14

03/16/22 09:55 03/16/22 23:14

03/16/22 09:55 03/16/22 23:14

03/24/22 08:28 03/25/22 13:21

03/24/22 08:28 03/25/22 13:21

Analyzed

Analyzed

Analyzed

Analyzed

03/16/22 23:14

6

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

1

1

1

1

1	
1	
1	
1	

20		

1

1

Prepared	Analyzed	Dil Fac	47
03/24/22 08:28	03/25/22 13:21	1	
03/24/22 08:28	03/25/22 13:21	1	
03/24/22 08:28	03/25/22 13:21	1	
03/24/22 08:28	03/25/22 13:21	1	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	25	S1-	70 - 130	03/24/22 08:28	03/25/22 13:21	1

Method: 551.1 - Chlorinated Disinfection Byproducts and Solvents (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<1.1	1.1	ug/L		03/23/22 10:03	03/24/22 03:06	1
Dichloroacetonitrile	<0.53	0.53	ug/L		03/23/22 10:03	03/24/22 03:06	1
Dibromoacetonitrile	<0.53	0.53	ug/L		03/23/22 10:03	03/24/22 03:06	1
1,1-Dichloro-2-propanone	<0.53	0.53	ug/L		03/23/22 10:03	03/24/22 03:06	1
Trichloroacetonitrile	<0.53	0.53	ug/L		03/23/22 10:03	03/24/22 03:06	1
Chloroform	<1.1	1.1	ug/L		03/23/22 10:03	03/24/22 03:06	1
Bromoform	<1.1	1.1	ug/L		03/23/22 10:03	03/24/22 03:06	1
Bromodichloromethane	<1.1	1.1	ug/L		03/23/22 10:03	03/24/22 03:06	1
Chloropicrin	<0.53	0.53	ug/L		03/23/22 10:03	03/24/22 03:06	1
Bromochloroacetonitrile	<0.53	0.53	ug/L		03/23/22 10:03	03/24/22 03:06	1
1,1,1-Trichloro-2-propanone	<0.53	0.53	ug/L		03/23/22 10:03	03/24/22 03:06	1

Job ID: 810-17720-1

5

6

Lab Sample ID: 810-17720-2 Matrix: Drinking Water

Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

Client Sample ID: Spring

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dibromopropane	103						03/23/22 10:03	03/24/22 03:06	_
Method: 552.2 THAA - Tota	al Haloacetic Ar	tids (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Haloacetic Acids 5	<2.000		2.000		ug/L			03/21/22 10:53	
	2.000				~ <u>9</u> /_				
Method: 552.2 - Haloacetic									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Dibromoacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 22:19	
Dichloroacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 22:19	
Monobromoacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 22:19	
Monochloroacetic acid	<2.0		2.0		ug/L		03/17/22 08:11	03/18/22 22:19	
Trichloroacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 22:19	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
2-Bromopropionic acid (Surr)	94		70 - 130				03/17/22 08:11	03/18/22 22:19	
Method: 300.0 - Anions, Io	•								
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Chloride	15		2.0		mg/L			03/15/22 20:03	
Chlorite	<10		10		ug/L			03/15/22 22:41	
Chlorate	<10		10		ug/L			03/15/22 22:41	
Sulfate	19		5.0		mg/L			03/15/22 20:03	
Bromide	25		10		ug/L			03/15/22 22:41	
Method: 217 Promote Lo	n Chromotogra	nhv							
Method: 317 - Bromate, lo Analyte		Qualifier	RL	MDL	Unit	D	Droporod	Applyzod	Dil Fa
Bromate	<u>Kesult</u> <1.0	Quaimer			ug/L	D	Prepared	Analyzed 03/17/22 00:30	DIIFe
	\$1.0		1.0		ug/L			03/11/22 00.30	
Method: 531.2 - Carbamat	e Pesticides (H	PLC) - Diss	olved						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aldicarb	<0.50		0.50		ug/L			03/19/22 06:21	
Aldicarb sulfone	<0.70		0.70		ug/L			03/19/22 06:21	
Aldicarb sulfoxide	<0.50		0.50		ug/L			03/19/22 06:21	
Carbofuran	<0.90		0.90		ug/L			03/19/22 06:21	
Oxamyl	<1.0		1.0		ug/L			03/19/22 06:21	
					-				
Method: 547 - Glyphosate	(DAI HPLC) - D	issolved							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Glyphosate	<6.0		6.0		ug/L			03/16/22 01:55	
Mathedu 540.0 Discustoria									
Method: 549.2 - Diquat and					11	-	Due a const	A	D/1 E
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Diquat	<0.40		0.40		ug/L		03/16/22 06:59	03/18/22 17:46	
Method: 331.0 - Perchlora	te (LC/MS/MS)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Perchlorate	0.63		0.050		ug/L			03/17/22 18:57	
					-				
					nina leina ar M	Notor			
Method: 533 - Perfluorinat			kyi Substand			valer			
Method: 533 - Perfluorinat		Qualifier	RL RL	MDL			Prepared	Analyzed	Dil Fa

5

6

Lab Sample ID: 810-17720-2 Matrix: Drinking Water

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

13C8 PFOS

13C2-4:2-FTS

13C2-6:2-FTS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
H,1H,2H,2H-Perfluorooctane sulfonic icid (6:2 FTS)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	1
4,8-Dioxa-3H-perfluorononanoic acid ADONA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	
O-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L			03/17/22 02:37	
I1-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	
Perfluoro-4-methoxybutanoic acid PFMBA)	<2.0		2.0		ng/L			03/17/22 02:37	
Perfluoro-3-methoxypropanoic acid PFMPA)	<2.0		2.0		ng/L			03/17/22 02:37	
Nonafluoro-3,6-dioxaheptanoic acid NFDHA)	<2.0		2.0		ng/L		03/16/22 06:28	03/17/22 02:37	
sotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
I3C4 PFBA	95		50 - 200				03/16/22 06:28	03/17/22 02:37	1
I3C5 PFPeA	89		50 - 200				03/16/22 06:28	03/17/22 02:37	1
3C5 PFHxA	94		50 - 200				03/16/22 06:28	03/17/22 02:37	1
3C4 PFHpA	94		50 - 200				03/16/22 06:28	03/17/22 02:37	
3C8 PFOA	95		50 - 200				03/16/22 06:28	03/17/22 02:37	
3C9 PFNA	109		50 - 200				03/16/22 06:28	03/17/22 02:37	
3C6 PFDA	95		50 - 200				03/16/22 06:28	03/17/22 02:37	
3C7 PFUnA	74		50 - 200				03/16/22 06:28	03/17/22 02:37	
3C2 PFDoA	64		50 - 200				03/16/22 06:28	03/17/22 02:37	
13C3 HFPO-DA	95		50 - 200					03/17/22 02:37	
13C3 PFBS	84		50 - 200					03/17/22 02:37	

Eurofins Eaton South Bend

03/16/22 06:28 03/17/22 02:37

03/16/22 06:28 03/17/22 02:37

03/16/22 06:28 03/17/22 02:37

50 - 200

50 - 200

50 - 200

87

87

94

1

1

1

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Client Sample ID: Spring Date Collected: 03/10/22 14:00

Free Chlorine

Job ID: 810-17720-1

5

6

17

Lab Sample ID: 810-17720-2 Matrix: Drinking Water

			LAU CUBAtara		nin kin a V	Noter	(Continued)		
Method: 533 - Perfluorinated a Isotope Dilution	Recovery		kyl Substanc	es in D	rinking	vater	(Continued) Prepared	Analyzed	Dil Fa
13C2-8:2-FTS	84	duamo	50 - 200				03/16/22 06:28		
13C3 PFHxS	87		50 - 200					03/17/22 02:37	
Method: 1613B - Tetra Chlorin	ated Dioxin	in Drinkin	a Water						
Analyte		Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fa
2,3,7,8-TCDD	<5.5		5.5		pg/L		03/21/22 15:00	03/23/22 01:29	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
13C-2,3,7,8-TCDD	107	quantor	25 - 164					03/23/22 01:29	
Method: 200.7 - Metals (ICP)	Desult	Qualifian		MDI	11		Duran and	A a la a al	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Sodium	6.5		0.10		mg/L			03/18/22 14:38	
Magnesium	16		0.10		mg/L			03/18/22 14:38	
Iron	0.026		0.020		mg/L			03/18/22 14:38	
Calcium	110		0.10		mg/L			03/18/22 14:38	
Method: 200.8 - Metals (ICP/M	S)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Antimony	<1.0		1.0		ug/L			03/17/22 16:33	
Arsenic	<1.0		1.0		ug/L			03/17/22 16:33	
Barium	35		2.0		ug/L			03/17/22 16:33	
Beryllium	<0.30		0.30		ug/L			03/17/22 16:33	
Cadmium	<0.50		0.50		ug/L			03/17/22 16:33	
Chromium	3.5		0.90		ug/L			03/17/22 16:33	
Copper	1.6		1.0		ug/L			03/17/22 16:33	
Lead	<0.50		0.50		ug/L			03/17/22 16:33	
Manganese	3.8		2.0		ug/L			03/17/22 16:33	
Nickel	1.7		1.0		ug/L			03/17/22 16:33	
Selenium	<2.0		2.0		ug/L			03/17/22 16:33	
Silver	<0.50		0.50		ug/L			03/17/22 16:33	
Thallium	<0.30		0.30		ug/L			03/17/22 16:33	
Zinc	<5.0		5.0		ug/L			03/17/22 16:33	
Method: 245.1 - Mercury (CVA	A)								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	<0.10		0.10		ug/L		03/18/22 11:54	03/18/22 16:05	
- Mothod: SM 2240B - Total Har	daaaa (aa C	2002) by	adaulation						
Method: SM 2340B - Total Har				ים	Unit	-	Dronored	Anolyzed	Dil Fa
Analyte		Qualifier		KL		D	Prepared	Analyzed	DIIFa
Hardness as calcium carbonate	340				mg/L			03/20/22 17:00	
Calcium hardness as calcium carbonate	280		0.25		mg/L			03/20/22 17:00	
Magnesium hardness as calcium	66		0.41		mg/L			03/20/22 17:00	
carbonate									
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Cyanide, Total	<0.0050		0.0050	_	mg/L	-	03/23/22 10:26	03/23/22 13:12	
Nitrite as N	<0.010	Н	0.010		mg/L			03/15/22 10:11	
								03/15/22 14:20	

Eurofins Eaton South Bend

03/11/22 18:17

0.50

mg/L

<0.50 HF

1

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

5

6

Lab Sample ID: 810-17720-2 Matrix: Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	5.3		0.10		mg/L			03/18/22 11:24	1
Color, Apparent	<5.0		5.0		Color Units			03/11/22 15:22	1
Specific Conductance	590		2.0		uS/cm			03/16/22 19:54	1
Fluoride	0.090		0.050		mg/L			03/18/22 07:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5	HF	0.1		SU			03/11/22 14:31	1
Turbidity	1.7		0.10		NTU			03/11/22 16:04	1
Monochloramine	<0.10	HF	0.10		mg/L			03/11/22 16:28	1
Dichloramine	<0.10	HF	0.10		mg/L			03/11/22 16:28	1
Nitrogen trichloride	<0.20	HF	0.20		mg/L			03/11/22 16:28	1
Chloramines, Total	<0.20	HF	0.20		mg/L			03/11/22 16:28	1
Chlorine dioxide, Residual	<0.24	HF	0.24		mg/L			03/10/22 14:00	1
Odor	1.0	н	1.0		T.O.N.			03/11/22 14:53	1
Alkalinity, Bicarbonate	280		1.0		mg/L			03/18/22 20:05	1
Alkalinity, Total	280		1.0		mg/L			03/18/22 20:05	1
Total Dissolved Solids	380		10		mg/L			03/17/22 10:37	1
Total Suspended Solids	<10		10		mg/L			03/16/22 15:40	1

			Oneert.	oneert.							
Analyte	Result	Qualifier	(σ+/-)	(σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Gross Alpha	-1.56	U			3.00	1.98	pCi/L	03/18/22 10:21	04/08/22 08:36	1	
Gross Beta	0.170	U			4.00	1.96	pCi/L	03/18/22 10:21	04/08/22 08:36	1	

Method: 7500 Ra D - Radium 226 Radium 228 Combined

			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(σ+/-)	(σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.000	U			1.00	0.520	pCi/L		04/21/22 16:02	1

Method: SM7500 Ra B - Radium-226

			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(σ+/-)	(σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.0500	U *			1.00	0.120	pCi/L	03/18/22 07:56	03/29/22 09:47	1

Method: SM7500 Ra D - Radium-228

		Count Uncert.	Total Uncert.						
Analyte	Result Qualifier	(σ+/-)	(σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-228	-0.290 U			1.00	0.520	pCi/L	03/18/22 07:52	04/14/22 11:06	1
	0_Rn_B - Radon	Count	Total						
		Uncert.	Uncert.						
Analyte	Result Qualifier	(σ+/-)	(σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radon 222	51.1			12.0	9.70	pCi/L	03/11/22 12:43	03/12/22 06:44	1

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water Job ID: 810-17720-1

Matrix: Drinking Water

5 6

Lab Sample ID: 810-17720-2

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

Method: 9223B - Coliforms, To Analyte		Coli (Presen Qualifier	Ce/Absenco NONE	e) NONE	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	ABSENT	H			NONE		•	03/14/22 15:26	1
Coliform, Total	PRESENT	н			NONE			03/14/22 15:26	1
_ Method: SimPlate - Heterotrop	hic Plate C	ount (HPC)							
Analyte		Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heterotrophic Plate Count	150		2.0		MPN/mL	·		03/11/22 11:44	1
Client Sample ID: Well B						L	ab Sampl	e ID: 810-17	720-5
Date Collected: 03/10/22 12:10									: Water
Date Received: 03/11/22 09:15									
_ General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<0.020		0.020		mg/L	·	-	03/23/22 11:42	1
MBAS	<0.12	Н	0.12		mg/L LAS			03/19/22 03:58	1
_					MW320				
Client Sample ID: Spring						L	ab Sampl	e ID: 810-17	720-6
Date Collected: 03/10/22 14:00									: Water
Date Received: 03/11/22 09:15									
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<0.020		0.020		mg/L		•	03/23/22 10:18	1
MBAS	<0.12	Н	0.12		mg/L LAS			03/19/22 03:58	1
					MW320				

Surrogate Summary

Method: 524.2 - Volatile Organic Compounds (GC/MS) Matrix: Drinking Water

Percent Surrogate Recovery (Acceptance Limits) DCA TOL BFB DCZ (70-130) Lab Sample ID **Client Sample ID** (70-130) (70-130) (70-130) 810-17720-1 Well B 102 94 83 81 Well B 810-17720-1 95 83 106 81 810-17720-2 Spring 103 97 87 87 810-17720-2 Spring 101 94 78 81 MB 810-14993/5 Method Blank 103 99 90 88 MB 810-15073/5 Method Blank 103 102 80 78 Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DCZ = 1,2-Dichlorobenzene-d4 (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Drinking Water

		Percent Surrogate Recovery (Acceptance Limits)		
		DXE		
Lab Sample ID	Client Sample ID	(70-130)		
810-17720-1	Well B	85		
810-17720-2	Spring	82		
LLCS 810-15223/2-A	Lab Control Sample	76		
MBL 810-15223/1-A	Method Blank	86		

Surrogate Legend

DXE = 1,4-Dioxane-d8 (Surr)

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) Matrix: Drinking Water

Method Blank

Percent Surrogate Recovery (Acceptance Limits) 2NMX PRY TPP Lab Sample ID **Client Sample ID** (70-130) (70-130) (70-130) 810-17720-1 Well B 100 89 100 810-17720-2 Spring 101 93 106 93 LCS 810-15033/3-A Lab Control Sample 96 98 LCS 810-15115/3-A Lab Control Sample 99 93 104 LLCS 810-15033/2-A Lab Control Sample 102 93 100 LLCS 810-15115/2-A Lab Control Sample 95 99 107 MB 810-15033/1-A Method Blank 100 91 99

101

93

105

Surrogate Legend

MB 810-15115/1-A

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Surrogate Summary

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Method: 548.1 - Endothall (GC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surroc	ate Recovery (Acceptance Limits)	
		24D		
Lab Sample ID	Client Sample ID	(70-130)		
810-17720-1	Well B			
810-17720-2	Spring	104		
LCS 810-14823/2-A	Lab Control Sample	100		
LLCS 810-14823/3-A	Lab Control Sample	118		
MB 810-14823/1-A	Method Blank	119		
Surrogate Legend				

24D = 2,4-Dichlorophenoxyacetic acid (Surr)

Method: 515.3 - Herbicides (GC) Matrix: Drinking Water

Prep Type: Total/NA

		DCPAA1	
Lab Sample ID	Client Sample ID	(70-130)	
810-17720-1	Well B	93	
810-17720-2	Spring	25 S1-	
LLCS 810-15291/2-B	Lab Control Sample	100	
LLCS 810-15484/2-B	Lab Control Sample	90	
MB 810-15291/1-B	Method Blank	102	
MB 810-15484/1-B	Method Blank	91	

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 551.1 - Chlorinated Disinfection Byproducts and Solvents (GC) Matrix: Drinking Water

_	_	_	
Dro	o Typ	o To	tal/NA
FIG	υιγμ	e. 10	lai/INA

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)				
		12DBP2				
Lab Sample ID	Client Sample ID					
810-17720-1	Well B	100				
810-17720-2	Spring	103				
LLCS 810-15410/2-B	Lab Control Sample	102				
MB 810-15410/1-B	Method Blank	108				

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 552.2 - Haloacetic Acids (HAAs) (GC) Matrix: Drinking Water

Lab Sample ID Client Sample ID (70-130) 810-17720-1 Well B 95 810-17720-2 Spring 94 MB 810-15027/1-A Method Blank 93

Surrogate Legend

2BPPA = 2-Bromopropionic acid (Surr)

Surrogate Summary

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

			Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA	PFDA	HFPODA	d5NEFOS	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)	
810-17720-1	Well B	98	92	97	86	
LLCS 810-14935/2-A	Lab Control Sample	107	101	98	94	
MBL 810-14935/1-A	Method Blank	101	98	99	97	
	1					

PFHxA = 13C2 PFHxA PFDA = 13C2 PFDA HFPODA = 13C3 HFPO-DA d5NEFOS = d5-NEtFOSAA Prep Type: Total/NA

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water Matrix: Drinking Water Pre-

Prep Type: Total/NA

8

			Perc	ent Isotope	Dilution Re	covery (Ac	ceptance L	imits)	
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(50-200)	(50-200)	(50-200)	(50-200)	(50-200)	(50-200)	(50-200)	(50-200)
810-17720-1	Well B	91	85	90	89	89	105	98	85
810-17720-2	Spring	95	89	94	94	95	109	95	74
LLCS 810-14933/2-A	Lab Control Sample	97	97	99	97	98	105	100	94
MBL 810-14933/1-A	Method Blank	98	97	99	97	96	104	102	93
			Perce	ent Isotope	Dilution Re	covery (Ac	ceptance L	imits)	
		PFDoA	HFPODA	C3PFBS	C8PFOS	42FTS	62FTS	82FTS	C3PFHS
Lab Sample ID	Client Sample ID	(50-200)	(50-200)	(50-200)	(50-200)	(50-200)	(50-200)	(50-200)	(50-200)
810-17720-1	Well B	78	87	86	94	90	96	98	89
810-17720-2	Spring	64	95	84	87	87	94	84	87
LLCS 810-14933/2-A	Lab Control Sample	93	96	90	92	92	95	96	90
MBL 810-14933/1-A	Method Blank	90	95	93	95	90	90	90	94
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
13C5PHA = 13C5 PFF									
C4PFHA = 13C4 PFH									
C8PFOA = 13C8 PFO									
C9PFNA = 13C9 PFNA	A								
C6PFDA = 13C6 PFDA	A								
13C7PUA = 13C7 PFL	InA								
PFDoA = 13C2 PFDoA	N N								
HFPODA = 13C3 HFP	O-DA								
C3PFBS = 13C3 PFBS	3								
C8PFOS = 13C8 PFO	S								
42FTS = 13C2-4:2-FT	5								
62FTS = 13C2-6:2-FT	3								
82FTS = 13C2-8:2-FT	6								
C3PFHS = 13C3 PFH	(S)								

Matrix: Drinking Water

Prep Type: Total/NA

Prep Type: Total/NA

			Percent Isotope Dilution Recovery (Acceptance Limits)
		TCDD	
Lab Sample ID	Client Sample ID	(25-164)	
810-17720-1	Well B	99	
810-17720-2	Spring	107	
MB 410-236037/1-A	Method Blank	91	

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

Method: 1613B - Tetra Chlorinated Dioxin in Drinking Water Matrix: Drinking Water

_			Percent Isotope Dilution Recovery (Acceptance Limits)
		TCDD	
Lab Sample ID	Client Sample ID	(20-175)	
LCS 410-236037/2-A	Lab Control Sample	93	
Surrogate Legend			

Isotope Dilution Summary

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water TCDD = 13C-2,3,7,8-TCDD

5

9

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 810-14993/5 Matrix: Drinking Water Analysis Batch: 14993

Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 14993	MB MB					
Analyte	Result Qualifie	er RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L		03/16/22 17:33	1
1,1,1-Trichloroethane	<0.50	0.50	ug/L		03/16/22 17:33	1
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L		03/16/22 17:33	1
1,1,2-Trichloroethane	<0.50	0.50	ug/L		03/16/22 17:33	1
1,1-Dichloroethane	<0.50	0.50	ug/L		03/16/22 17:33	1
1,1-Dichloroethene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,1-Dichloropropene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,2,3-Trichloropropane	<0.50	0.50	ug/L		03/16/22 17:33	1
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,2-Dibromo-3-Chloropropane	<0.20	0.20	ug/L		03/16/22 17:33	1
1,2-Dibromoethane (EDB)	<0.20	0.20	ug/L		03/16/22 17:33	1
1,2-Dichlorobenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,2-Dichloroethane	<0.50	0.50	ug/L		03/16/22 17:33	1
1,2-Dichloropropane	<0.25	0.25	ug/L		03/16/22 17:33	1
o-Xylene	<0.50	0.50	ug/L		03/16/22 17:33	1
m-Xylene & p-Xylene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,3-Dichlorobenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
1,3-Dichloropropane	<0.50	0.50	ug/L		03/16/22 17:33	1
1,4-Dichlorobenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
2,2-Dichloropropane	<0.50	0.50	ug/L		03/16/22 17:33	1
2-Chlorotoluene	<0.50	0.50	ug/L		03/16/22 17:33	1
4-Chlorotoluene	<0.50	0.50	ug/L		03/16/22 17:33	1
Benzene	<0.50	0.50	ug/L		03/16/22 17:33	1
4-Isopropyltoluene	<0.50	0.50	ug/L		03/16/22 17:33	1
Bromobenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
Bromochloromethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Bromodichloromethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Bromoform	<0.50	0.50	ug/L		03/16/22 17:33	1
Bromomethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Carbon tetrachloride	<0.50	0.50	ug/L		03/16/22 17:33	1
Chloroethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Chlorobenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
Chloromethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Chloroform	<0.50	0.50	ug/L		03/16/22 17:33	1
Dibromomethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Dichlorodifluoromethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Dichloromethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Dibromochloromethane	<0.50	0.50	ug/L		03/16/22 17:33	1
Ethylbenzene	<0.50	0.50	ug/L		03/16/22 17:33	1
Hexachlorobutadiene	<0.25	0.25	ug/L		03/16/22 17:33	1
lsopropylbenzene	<0.25	0.25	ug/L		03/16/22 17:33	1
Naphthalene	<0.50	0.50	ug/L		03/16/22 17:33	1
Methyl-tert-butyl Ether (MTBE)	<0.50	0.50	ug/L		03/16/22 17:33	1
Styrene	<0.50	0.50	ug/L		03/16/22 17:33	1
Tetrachloroethene	<0.50	0.50	ug/L		03/16/22 17:33	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 810-14993/5 **Matrix: Drinking Water**

Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 14993

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.50		0.50		ug/L			03/16/22 17:33	1
Trichloroethylene	<0.50		0.50		ug/L			03/16/22 17:33	1
Trichlorofluoromethane	<0.50		0.50		ug/L			03/16/22 17:33	1
Vinyl chloride	<0.20		0.20		ug/L			03/16/22 17:33	1
tert-Butylbenzene	<0.50		0.50		ug/L			03/16/22 17:33	1
cis-1,2-Dichloroethylene	<0.50		0.50		ug/L			03/16/22 17:33	1
cis-1,3-Dichloropropylene	<0.50		0.50		ug/L			03/16/22 17:33	1
n-Butylbenzene	<0.50		0.50		ug/L			03/16/22 17:33	1
N-Propylbenzene	<0.50		0.50		ug/L			03/16/22 17:33	1
sec-Butylbenzene	<0.50		0.50		ug/L			03/16/22 17:33	1
trans-1,2-Dichloroethylene	<0.50		0.50		ug/L			03/16/22 17:33	1
trans-1,3-Dichloropropylene	<0.50		0.50		ug/L			03/16/22 17:33	1
Xylenes, Total	<0.50		0.50		ug/L			03/16/22 17:33	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		03/16/22 17:33	1
Toluene-d8 (Surr)	99		70 - 130		03/16/22 17:33	1
4-Bromofluorobenzene (Surr)	90		70 - 130		03/16/22 17:33	1
1,2-Dichlorobenzene-d4 (Surr)	88		70 - 130		03/16/22 17:33	1

Lab Sample ID: MB 810-15073/5 **Matrix: Drinking Water** Analysis Batch: 15073

Client Sample ID: Method Blank

Prep Type: Total/NA

		IVID								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Bromodichloromethane	<0.50		0.50		ug/L			03/18/22 00:05	1	
Bromoform	<0.50		0.50		ug/L			03/18/22 00:05	1	
Chloroform	<0.50		0.50		ug/L			03/18/22 00:05	1	
Dibromochloromethane	<0.50		0.50		ug/L			03/18/22 00:05	1	

	MB	МВ			
Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	03/18/22 00:05	1
Toluene-d8 (Surr)	102		70 - 130	03/18/22 00:05	1
4-Bromofluorobenzene (Surr)	80		70 - 130	03/18/22 00:05	1
1,2-Dichlorobenzene-d4 (Surr)	78		70 - 130	03/18/22 00:05	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MBL 810-15223/1-A **Client Sample ID: Method Blank Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15313 Prep Batch: 15223 MBL MBL Analyte Result Qualifier RL MDL Unit Prepared Analyzed D 1,4-Dioxane 0.070 ug/L 03/21/22 07:41 03/22/22 12:39 <0.032 MBL MBL Surrogate %Recovery Qualifier Limits Prepared 1,4-Dioxane-d8 (Surr) 86 70 - 130 03/21/22 07:41 03/22/22 12:39

Analyzed Dil Fac 1

Eurofins Eaton South Bend

Dil Fac

1

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Method: 522 - 1,4 Dioxane (GC/MS SIM) (Continued)

Matrix: Drinking Water										Prep Type: To	
Analysis Batch: 15313			Spike	LLCS	11.00	-				Prep Batch %Rec	1522
Analyta			Spike Added	Result			Unit	D	%Rec	Limits	
Analyte 1,4-Dioxane			0.0700	0.0607		mer			87	50 - 150	
1,4-Dioxane			0.0700	0.0607	J		ug/L		07	50 - 150	
	LLCS LL	cs									
Surrogate	%Recovery Qu	alifier	Limits								
1,4-Dioxane-d8 (Surr)	76		70 - 130								
lethod: 525.2 - Semiv		nic Com	pounds (C	GC/MS	5)			01			
Lab Sample ID: MB 810-1	15033/1-A							CII		le ID: Method	
Matrix: Drinking Water Analysis Batch: 15085										Prep Type: To Prep Batch	
Analysis Dalon. 19009		MB								Fiep Datch	. 1503
Analyte		Qualifier	RL		MDL	Unit	D	F	Prepared	Analyzed	Dil Fa
Heptachlor epoxide	<0.019		0.019			ug/L	=		17/22 07:44		
Di(2-ethylhexyl)adipate	<0.58		0.58			ug/L		03/	17/22 07:44	03/17/22 22:17	
Di (2-ethylhexyl)phthalate	<0.58	5	0.58			ug/L		03/	17/22 07:44	03/17/22 22:17	
Hexachlorobenzene	<0.096	;	0.096			ug/L		03/	17/22 07:44	03/17/22 22:17	
Simazine	<0.067	,	0.067			ug/L		03/	17/22 07:44	03/17/22 22:17	
Alachlor	<0.096	;	0.096			ug/L		03/	17/22 07:44	03/17/22 22:17	
Atrazine	<0.096	;	0.096			ug/L		03/	17/22 07:44	03/17/22 22:17	
Benzo[a]pyrene	<0.019)	0.019			ug/L		03/	17/22 07:44	03/17/22 22:17	
Endrin	<0.0096	;	0.0096		1	ug/L		03/	17/22 07:44	03/17/22 22:17	
Methoxychlor	<0.096	;	0.096			ug/L		03/	17/22 07:44	03/17/22 22:17	
Heptachlor	<0.039)	0.039			ug/L		03/	17/22 07:44	03/17/22 22:17	
Hexachlorocyclopentadiene	<0.096	j	0.096		I	ug/L		03/	17/22 07:44	03/17/22 22:17	
	ME	B MB									
Surrogate	%Recovery		Limits						Prepared	Analyzed	Dil Fa
	100		70 - 130							03/17/22 22:17	
2-Nitro-m-xylene			70 - 130					03/	17/22 07:44	03/17/22 22:17	
•	91 95		70 - 130							03/17/22 22:17	

Analysis Batch: 15085

Analysis Batch: 15085							Prep Batch: 15033
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Heptachlor epoxide	1.96	1.88		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.04		ug/L		104	70 - 130
Di (2-ethylhexyl)phthalate	1.96	2.04		ug/L		104	70 - 130
Hexachlorobenzene	1.96	1.92		ug/L		98	70 - 130
Simazine	1.96	2.04		ug/L		104	70 - 130
Propachlor	1.96	2.09		ug/L		107	70 - 130
Metribuzin	1.96	2.30		ug/L		118	70 - 130
Butachlor	1.96	1.99		ug/L		102	70 - 130
Aldrin	1.96	2.00		ug/L		102	70 - 130
Metolachlor	1.96	2.06		ug/L		105	70 - 130
gamma-BHC (Lindane)	1.96	2.07		ug/L		106	70 - 130
Dieldrin	1.96	2.24		ug/L		114	70 - 130
Endrin	1.96	2.25		ug/L		115	70 - 130

Eurofins Eaton South Bend

17

5 6

9

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Drinking Water								-	: Lab Control Sample Prep Type: Total/NA
Analysis Batch: 15085			Spike	1.09	LCS				Prep Batch: 15033 %Rec
Analyte			Added	-	Qualifier	Unit	D	%Rec	Limits
Methoxychlor			1.96	2.06		ug/L		105	70 - 130
Heptachlor			1.96	2.14		ug/L		110	70 - 130
Hexachlorocyclopentadiene			1.96	1.76		ug/L		90	70 - 130
	LCS	105							
Surrogate	%Recovery		Limits						
2-Nitro-m-xylene		quanner	70 - 130						
Pervlene-d12	93		70 - 130						
Triphenylphosphate	98		70 - 130						
, , ,									
Lab Sample ID: LLCS 81	0-15033/2-A					Clie	ent Sai	mple ID:	: Lab Control Sample
Matrix: Drinking Water									Prep Type: Total/NA
Analysis Batch: 15085									Prep Batch: 1503
-			Spike	LLCS	LLCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Heptachlor epoxide			0.00977	<0.020		ug/L		116	50 - 150
Di(2-ethylhexyl)adipate			0.586	<0.59		ug/L		94	50 - 150
Di (2-ethylhexyl)phthalate			0.586	0.615		ug/L		105	50 - 150
Hexachlorobenzene			0.0977	0.0888	J	ug/L		91	50 - 150
Simazine			0.0684	0.0639	J	ug/L		93	50 - 150
Propachlor			0.0977	0.0945	J	ug/L		97	50 - 150
Metribuzin			0.0977	0.0887	J	ug/L		91	50 - 150
Butachlor			0.0977	0.0898	J	ug/L		92	50 - 150
Aldrin			0.0684	0.0783	J	ug/L		115	50 - 150
Metolachlor			0.0977	0.0926	J	ug/L		95	50 - 150
gamma-BHC (Lindane)			0.0195	0.0204		ug/L		104	50 - 150
Dieldrin			0.0195	0.0234	J	ug/L		120	50 - 150
Endrin			0.00977	0.0122		ug/L		125	50 - 150
Methoxychlor			0.0977	0.0871	J	ug/L		89	50 - 150
Heptachlor			0.00977	0.0103	J	ug/L		105	50 - 150
Hexachlorocyclopentadiene			0.0977	0.0907	J	ug/L		93	50 - 150
	LLCS	LLCS							
Surrogate	%Recovery		Limits						

	LLUS	LLCS	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: MB 810-15115/1-A Matrix: Drinking Water Analysis Batch: 15245

M	В МВ				-	
Analyte Resu	lt Qualifier RL	MDL Uni	it D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide <0.01	9 0.019	ug/l	<u> </u>	03/18/22 07:44	03/21/22 16:50	1
Di(2-ethylhexyl)adipate <0.5	8 0.58	ug/l	Ľ	03/18/22 07:44	03/21/22 16:50	1
Di (2-ethylhexyl)phthalate <0.5	8 0.58	ug/l	Ľ	03/18/22 07:44	03/21/22 16:50	1
Hexachlorobenzene <0.09	7 0.097	ug/l	Ľ	03/18/22 07:44	03/21/22 16:50	1
Simazine <0.06	8 0.068	ug/l	Ľ	03/18/22 07:44	03/21/22 16:50	1
Alachlor <0.09	7 0.097	ug/l	Ľ	03/18/22 07:44	03/21/22 16:50	1
Atrazine <0.09	7 0.097	ug/l	Ľ	03/18/22 07:44	03/21/22 16:50	1

Eurofins Eaton South Bend

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15115

RL

0.019

0.0097

0.097

0.039

0.097

Limits

70 - 130

70 - 130

70 - 130

MDL Unit

ug/L

ug/L

ug/L

ug/L

ug/L

D

Prepared

Prepared

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

MB MB

MB MB %Recovery Qualifier

<0.019

<0.0097

<0.097

< 0.039

<0.097

101

93

105

Result Qualifier

Matrix: Drinking Water

Analysis Batch: 15245

Hexachlorocyclopentadiene

Analyte

Endrin

Benzo[a]pyrene

Methoxychlor

Heptachlor

Surrogate

2-Nitro-m-xylene

Triphenylphosphate

Perylene-d12

Lab Sample ID: MB 810-15115/1-A

Job ID: 810-17720-1

1 2 3 4 5 6 7 8 9 10 11

Dil Fac

1

1

1

1

1

1

1

1

Dil Fac

Lab Sample ID: LCS 810-15115/3-A
Matrix: Drinking Water
Analysis Batch: 15245

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 15115

03/18/22 07:44 03/21/22 16:50

03/18/22 07:44 03/21/22 16:50

03/18/22 07:44 03/21/22 16:50

03/18/22 07:44 03/21/22 16:50

03/18/22 07:44 03/21/22 16:50

03/18/22 07:44 03/21/22 16:50

03/18/22 07:44 03/21/22 16:50

03/18/22 07:44 03/21/22 16:50

Analyzed

Analyzed

Client Sample ID: Lab Control Sample

Prep	Type:	То	tal/	NA
_				

Analysis Batch: 15245							Prep Batch: 15115
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Heptachlor epoxide	1.94	1.87		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	1.94	1.89		ug/L		98	70 - 130
Di (2-ethylhexyl)phthalate	1.94	1.84		ug/L		95	70 - 130
Hexachlorobenzene	1.94	1.84		ug/L		95	70 - 130
Simazine	1.94	1.98		ug/L		102	70 - 130
Propachlor	1.94	2.00		ug/L		103	70 - 130
Metribuzin	1.94	2.17		ug/L		112	70 - 130
Butachlor	1.94	1.97		ug/L		102	70 - 130
Aldrin	1.94	1.75		ug/L		90	70 - 130
Metolachlor	1.94	1.92		ug/L		99	70 - 130
gamma-BHC (Lindane)	1.94	1.90		ug/L		98	70 - 130
Dieldrin	1.94	1.97		ug/L		102	70 - 130
Endrin	1.94	1.89		ug/L		98	70 - 130
Methoxychlor	1.94	1.78		ug/L		92	70 - 130
Heptachlor	1.94	1.73		ug/L		89	70 - 130
Hexachlorocyclopentadiene	1.94	1.68		ug/L		87	70 - 130

	LCS		
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: LLCS 810-15115/2-A Matrix: Drinking Water Analysis Batch: 15245

-	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Heptachlor epoxide	0.00974	<0.019		ug/L		81	50 - 150	
Di(2-ethylhexyl)adipate	0.584	<0.58		ug/L		94	50 ₋ 150	
Di (2-ethylhexyl)phthalate	0.584	<0.58		ug/L		97	50 - 150	
Hexachlorobenzene	0.0974	0.0819	J	ug/L		84	50 - 150	
Simazine	0.0682	0.0653	J	ug/L		96	50 - 150	

Eurofins Eaton South Bend

Prep Type: Total/NA

Prep Batch: 15115

Client Sample ID: Lab Control Sample

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

oject/Site: WV Drinking Wa			1.0.0	n a u na di	e (C	C/MC	(Cont	(bound)				
ethod: 525.2 - Semive	olatile Org	Jani	IC COM	pouna	3 (0	C/1813		.inueu)				
ab Sample ID: LLCS 810 Matrix: Drinking Water Analysis Batch: 15245	-15115/2-A							Clie	nt Sar	mple ID:	Lab Control S Prep Type: To Prep Batch	otal/NA
				Spike		LLCS					%Rec	
Analyte				Added			Qualifier	Unit	D	%Rec	Limits	
Propachlor				0.0974		0.0890		ug/L		91	50 - 150	
Metribuzin				0.0974	(0.0943	J	ug/L		97	50 - 150	
Butachlor				0.0974	(0.0848	J	ug/L		87	50 - 150	
Aldrin				0.0682	(0.0577	J	ug/L		85	50 - 150	
Metolachlor				0.0974	(0.0855	J	ug/L		88	50 - 150	
gamma-BHC (Lindane)				0.0195	(0.0168	J	ug/L		87	50 - 150	
Dieldrin				0.0195	(0.0199	J	ug/L		102	50 - 150	
Endrin				0.00974		0.0130		ug/L		134	50 - 150	
Methoxychlor				0.0974	(0.0748	J	ug/L		77	50 - 150	
Heptachlor				0.00974	<(<0.0097		ug/L		80	50 - 150	
Hexachlorocyclopentadiene				0.0974		0.0840	J	ug/L		86	50 - 150	
	LLCS		· e					- 0				
Surrogate	%Recovery			Limits								
2-Nitro-m-xylene	99			70 - 130								
Perylene-d12	95			70 - 130								
Triphenylphosphate	107			70 - 130								
Lab Sample ID: MB 810-14 Matrix: Drinking Water		S)							Clie	ent Samp	ole ID: Method Prep Type: T	otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water	4823/1-A		МВ						Clie	ent Samp		otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte	4823/1-A 	MB	MB Qualifier		RL	N	MDL Unit		D P	repared	Prep Type: To Prep Batch Analyzed	otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 ^{Analyte}	4823/1-A 	мв			RL 5.0	N	MDL Unit	I	D P	repared	Prep Type: To Prep Batch	otal/NA : 14823
lethod: 548.1 - Endoth Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall	4823/1-A Res	MB sult <5.0 MB	Qualifier MB		5.0	N		I	D P 03/1	repared 5/22 06:53	Prep Type: To Prep Batch Analyzed 03/16/22 23:54	otal/NA : 14823
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall	4823/1-A 	MB sult <5.0 MB very	Qualifier		5.0 its	N		I	D Pr 03/1	repared 5/22 06:53 repared	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed	Dil Fac Dil Fac 1
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid	4823/1-A 	MB sult <5.0 MB	Qualifier MB	<i>Limi</i> 70*	5.0 its	N		<u> </u>	D Pr 03/1	repared 5/22 06:53	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed	otal/NA : 14823
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water	4823/1-A 	MB sult <5.0 MB very	Qualifier MB		5.0 its	N			D Pi 03/1 Pi 03/1	repared 5/22 06:53 repared 5/22 06:53	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall	4823/1-A 	MB sult <5.0 MB very	Qualifier MB	70 - 1	5.0 its		ug/L		D Pi 03/1 Pi 03/1	repared 5/22 06:53 repared 5/22 06:53	Prep Type: Tr Prep Batch Malyzed 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: Tr Prep Batch	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042	4823/1-A 	MB sult <5.0 MB very	Qualifier MB	 70 Spike	5.0 its 130	LCS	LCS	Clie	D Pi 03/1 	repared 5/22 06:53 repared 5/22 06:53 mple ID:	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte	4823/1-A 	MB sult <5.0 MB very	Qualifier MB	70 - ⁻ Spike Added	5.0 its 130	LCS Result	ug/L	Clie	D Pi 03/1 Pi 03/1	repared 5/22 06:53 repared 5/22 06:53 mple ID:	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec Limits	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte	4823/1-A 	MB sult <5.0 MB very	Qualifier MB	 70 Spike	5.0 its 130	LCS	LCS	Clie	D Pi 03/1 	repared 5/22 06:53 repared 5/22 06:53 mple ID:	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042	4823/1-A 	MB esult <5.0 MB very 119	Qualifier MB Qualifier	70 - ⁻ Spike Added	5.0 its 130	LCS Result	LCS	Clie	D Pi 03/1 	repared 5/22 06:53 repared 5/22 06:53 mple ID:	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec Limits	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte	4823/1-A 	MB soult <5.0 MB very 119	Qualifier MB Qualifier	70 - ⁻ Spike Added	5.0 its 130	LCS Result	LCS	Clie	D Pi 03/1 	repared 5/22 06:53 repared 5/22 06:53 mple ID:	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec Limits	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid	4823/1-A 	MB soult <5.0 MB very 119	Qualifier MB Qualifier	Spike Added	5.0 its 130	LCS Result	LCS	Clie	D Pi 03/1 	repared 5/22 06:53 repared 5/22 06:53 mple ID:	Prep Type: To Prep Batch Malyzed 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec Limits	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid	4823/1-A 	MB soult <5.0 MB very 119	Qualifier MB Qualifier	Spike Added 10.0	5.0 its 130	LCS Result	LCS	Clie Unit ug/L	D Pi 03/1 Pi 03/1 nt Sar	repared 5/22 06:53 repared 5/22 06:53 mple ID: <u>%Rec</u> 113	Prep Type: Tr Prep Batch 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: Tr Prep Batch %Rec Limits 69 - 136	otal/NA : 14823 <u>Dil Fac</u> 1 <u>Dil Fac</u> 1 Sample otal/NA : 14823
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LLCS 810	4823/1-A 	MB soult <5.0 MB very 119	Qualifier MB Qualifier	Spike Added 10.0	5.0 its 130	LCS Result	LCS	Clie Unit ug/L	D Pi 03/1 Pi 03/1 nt Sar	repared 5/22 06:53 repared 5/22 06:53 mple ID: <u>%Rec</u> 113	Prep Type: To Prep Batch 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec Limits 69 - 136	otal/NA : 14823 Dil Fac 1 Dil Fac 1 Sample otal/NA : 14823 - Sample
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LLCS 810	4823/1-A 	MB soult <5.0 MB very 119	Qualifier MB Qualifier	Spike Added 10.0	5.0 its 130	LCS Result	LCS	Clie Unit ug/L	D Pi 03/1 Pi 03/1 nt Sar	repared 5/22 06:53 repared 5/22 06:53 mple ID: <u>%Rec</u> 113	Prep Type: To Prep Batch 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec Limits 69 - 136	otal/NA : 14823 <u>Dil Fac</u> 1 <u>Dil Fac</u> 7 Sample otal/NA : 14823 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr)	4823/1-A 	MB soult <5.0 MB very 119	Qualifier MB Qualifier	Spike Added 10.0	5.0 its 130	LCS Result	LCS	Clie Unit ug/L	D Pi 03/1 Pi 03/1 nt Sar	repared 5/22 06:53 repared 5/22 06:53 mple ID: <u>%Rec</u> 113	Prep Type: To Prep Batch 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec Limits 69 - 136	otal/NA : 14823 <u>Dil Fac</u> 1 <u>Dil Fac</u> 7 Sample otal/NA : 14823 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LLCS 810 Matrix: Drinking Water	4823/1-A 	MB soult <5.0 MB very 119	Qualifier MB Qualifier	Spike Added 10.0	5.0 its 130	LCS Result	LCS Qualifier	Clie Unit ug/L	D Pi 03/1 Pi 03/1 nt Sar	repared 5/22 06:53 repared 5/22 06:53 mple ID: <u>%Rec</u> 113	Prep Type: To Prep Batch 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: To Prep Batch %Rec Limits 69 - 136	otal/NA : 14823 <u>Dil Fac</u> 1 <u>Dil Fac</u> 7 Sample otal/NA : 14823 Sample otal/NA
Lab Sample ID: MB 810-14 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LCS 810-1 Matrix: Drinking Water Analysis Batch: 15042 Analyte Endothall Surrogate 2,4-Dichlorophenoxyacetic acid (Surr) Lab Sample ID: LLCS 810 Matrix: Drinking Water	4823/1-A 	MB soult <5.0 MB very 119	Qualifier MB Qualifier	70 Spike Added 10.0 <i>Limits</i> 70 - 130	5.0 its 130	LCS Result 11.3	LCS Qualifier	Clie Unit ug/L	D Pi 03/1 Pi 03/1 nt Sar	repared 5/22 06:53 repared 5/22 06:53 mple ID: <u>%Rec</u> 113	Prep Type: Tr Prep Batch 03/16/22 23:54 Analyzed 03/16/22 23:54 Lab Control S Prep Type: Tr Prep Batch %Rec Limits 69 - 136	otal/NA : 14823 <u>Dil Fac</u> 1 <u>Dil Fac</u> 7 Sample otal/NA : 14823 Sample otal/NA

ab Sample ID: LLCS 810-	-14823/3-A						Cli	ent S	Sample ID:	Lab Control	Samp
Aatrix: Drinking Water										Prep Type:	
Analysis Batch: 15042										Prep Batc	h: 1482
	LLCS LL	cs									
urrogate	%Recovery Qu	alifier	Limits								
,4-Dichlorophenoxyacetic acid Surr)	118		70 - 130								
ethod: 504.1 - EDB, D	BCP and 1,2	2,3-TCP	(GC)								
ab Sample ID: MB 810-14	862/24-A							С	lient Sam	ole ID: Metho	od Blar
latrix: Drinking Water										Prep Type:	
nalysis Batch: 14919										Prep Batc	h: 1486
		MB									
nalyte		Qualifier	RL		MDL			<u>D</u>	Prepared	Analyzed	Dil F
2-Dibromoethane (EDB)	<0.010		0.010			ug/L				03/15/22 19:20	
2-Dibromo-3-Chloropropane	<0.010		0.010			ug/L		0	3/15/22 10:15	03/15/22 19:20)
ab Sample ID: LCS 810-1	4862/30-A						Cli	ent S	Sample ID:	Lab Control	Samp
latrix: Drinking Water										Prep Type:	Total/N
nalysis Batch: 14919										Prep Batc	h: 1486
-			Spike	LCS	LCS					%Rec	
nalyte			Added	Result	Qual	ifier	Unit		D %Rec	Limits	
2-Dibromoethane (EDB)			0.250	0.265			ug/L		106	70 - 130	
2-Dibromo-3-Chloropropane			0.250	0.242			ug/L		97	70 - 130	
ab Sample ID: LLCS 810-	14962/25 A						CI	ont C	Sample ID:	Lab Control	Samo
latrix: Drinking Water	·14002/23-A						Cili	ente	bainple iD.	Prep Type:	
nalysis Batch: 14919										Prep Batc	
inalysis Batch. 14919			Spike	LLCS	1109	s				%Rec	1. 1400
nalyte			Added	Result			Unit		D %Rec	Limits	
2-Dibromoethane (EDB)			0.0100	0.0150			ug/L		150	50 - 150	
			0.0100	0.0113			ug/L		113	50 - 150	

Lab Sample ID: MB 810-14969 Matrix: Drinking Water Analysis Batch: 14999)/24-A						le ID: Methoo Prep Type: To Prep Batch:	otal/NA
	MB MB				_			
Analyte	Result Qualifie		MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.080	0.080		ug/L		03/16/22 09:55	03/16/22 18:02	1
PCB-1221	<0.19	0.19		ug/L		03/16/22 09:55	03/16/22 18:02	1
PCB-1232	<0.23	0.23		ug/L		03/16/22 09:55	03/16/22 18:02	1
PCB-1242	<0.26	0.26		ug/L		03/16/22 09:55	03/16/22 18:02	1
PCB-1248	<0.10	0.10		ug/L		03/16/22 09:55	03/16/22 18:02	1
PCB-1254	<0.10	0.10		ug/L		03/16/22 09:55	03/16/22 18:02	1
PCB-1260	<0.20	0.20		ug/L		03/16/22 09:55	03/16/22 18:02	1
Chlordane (technical)	<0.10	0.10		ug/L		03/16/22 09:55	03/16/22 18:02	1
Toxaphene	<1.0	1.0		ug/L		03/16/22 09:55	03/16/22 18:02	1
Total PCBs as DCB (Qualitative)	<0.50	0.50		ug/L		03/16/22 09:55	03/16/22 18:02	1

Job ID: 810-17720-1

17

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: LLCS 810	-14969/31-A					Clien	t Sa	mple ID:	Lab Contr		
Matrix: Drinking Water									Prep Type		
Analysis Batch: 14999									Prep Bat	ch: 1	4969
			Spike		LLCS				%Rec		
Analyte			Added		Qualifier	Unit	D		Limits		
Chlordane (technical)			0.100	0.136		ug/L		136	50 - 150		
Lab Sample ID: LLCS 810	-14969/32-A					Clien	t Sa	mple ID:	Lab Contr		
Matrix: Drinking Water									Prep Type		
Analysis Batch: 14999			Spike	1109	LLCS				Prep Bat %Rec	.cn: 1	4909
Analyte			Added	-	Qualifier	Unit	D	%Rec	Limits		
Toxaphene			1.00	0.779		ug/L		78	50 - 150		
Тохарнене			1.00	0.115	5	ug/L		70	50 - 150		
Lab Sample ID: 810-17720)-1 MS							Clie	nt Sample		
Matrix: Drinking Water									Prep Type		
Analysis Batch: 14999									Prep Bat	ch: 1	4969
	•	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
PCB-1242	<0.26		1.00	1.20		ug/L		120	65 - 135		
Lab Sample ID: 810-17720)-2 MS							Clier	nt Sample	D: S	pring
Matrix: Drinking Water	_							_	Prep Type		
Analysis Batch: 14999									Prep Bat		
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chlordane (technical)	<0.10		1.00	0.875		ug/L		88	65 - 135		
Lab Sample ID: 810-17720								Clier	nt Sample		nring
Matrix: Drinking Water	-2 1100							Oller	Prep Type		
Analysis Batch: 14999									Prep Bat		
Analysis Batch. 14000	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	•	Qualifier	Added	-	Qualifier	Unit	D	%Rec		RPD	Limit
Chlordane (technical)	<0.10		1.00	0.861		ug/L		86	65 - 135	2	14
/ /ethod: 515.3 - Herbic	ides (GC)										
Lab Sample ID: MB 810-1	5291/1-B						Clie	ent Samp	ole ID: Met		
Matrix: Drinking Water									Prep Type		
Analysis Batch: 15378									Prep Bat	ch: 1	5291
Analyto	De	MB MB sult Qualifier	RL			~	п	roparad	Analyza		Dil Fac
Analyte		0.10 Qualifier				D		repared 2/22 07:29	Analyzed		
2,4,5-TP (Silvex) Dalapon		<1.0			ug/L				03/22/22 18		-
Dalapon Dinoseb			1.0 0.10		ug/L						
		0.10	0.10		ug/L				03/22/22 18		1
Pentachlorophenol		.040	0.040		ug/L				03/22/22 18		1
Picloram	<	0.10	0.10		ug/L			2/22 07:29	03/22/22 18		1

2,4-D	<0.10		0.10	ug/L	03/22/22 07:29	03/22/22 18:47	1
	МВ	МВ					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	102		70 - 130		03/22/22 07:29	03/22/22 18:47	1

Method: 515.3 - Herbicides (GC) (Continued)

Matrix: Drinking Water												Prep Type: T	
Analysis Batch: 15378				Spike	LLCS		e					Prep Batch %Rec	: 15291
Analyte				Added	Result			Unit		D %	%Rec	Limits	
2,4,5-TP (Silvex)				0.100	0.0887			ug/L			89	48 - 148	
Dicamba				0.200	0.151	-		ug/L			75		
Dinoseb				0.200	0.177			ug/L			89	39 - 141	
Pentachlorophenol				0.0400	0.0420			ug/L			105	30 - 171	
Picloram				0.100	0.0746	J		ug/L			75	24 - 150	
2,4-D				0.200	0.135			ug/L			68	24 - 138	
	LLCS	LLCS											
	%Recovery	Qualif	fier	Limits									
Surrogate	<i>%</i> Recovery												
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water	100			70 - 130						Clien		ole ID: Method Prep Type: To Brep Botob	otal/N/
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water	100 5484/1-B	MB M	MB	70 - 130						Clien			otal/NA
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555	<u>100</u> 5484/1-B	MB M	MB Qualifier	70 - 130 RL	1	MDL	Unit		D			Prep Type: Te	otal/NA : 15484
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555 Analyte	100 5484/1-B Res	MB M			1	MDL	Unit ug/L			Pre		Prep Type: To Prep Batch Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555 Analyte 2,4,5-TP (Silvex)	<u> </u>	MB M Sult Q		RL	I	MDL				Prep 03/24/2	pared	Prep Type: To Prep Batch Analyzed 03/25/22 11:45	Dil Fac
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555 Analyte 2,4,5-TP (Silvex) Dalapon		MB M sult Q			1	MDL	ug/L			Prej 03/24/2 03/24/2	pared 22 08:28 22 08:28	Prep Type: To Prep Batch <u>Analyzed</u> 03/25/22 11:45	Dil Fac
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555 Analyte 2,4,5-TP (Silvex) Dalapon Dinoseb		MB M sult Q .10 .10			1	MDL	ug/L ug/L			Prej 03/24/2 03/24/2 03/24/2	pared 22 08:28 22 08:28 22 08:28	Prep Type: To Prep Batch 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45	Dil Fac
Surrogate 2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555 Analyte 2,4,5-TP (Silvex) Dalapon Dinoseb Pentachlorophenol Picloram		MB M sult Q .10 .10				MDL	ug/L ug/L ug/L			Prep 03/24/2 03/24/2 03/24/2 03/24/2	pared 22 08:28 22 08:28 22 08:28 22 08:28 22 08:28	Prep Type: To Prep Batch 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45	otal/NA
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555 Analyte 2,4,5-TP (Silvex) Dalapon Dinoseb Pentachlorophenol Picloram		MB M sult <u>Q</u> 1.10 1.10 0.10			1	MDL	ug/L ug/L ug/L ug/L			Prej 03/24/2 03/24/2 03/24/2 03/24/2 03/24/2	pared 22 08:28 22 08:28 22 08:28 22 08:28 22 08:28 22 08:28	Prep Type: To Prep Batch 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45	Dil Fac
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555 Analyte 2,4,5-TP (Silvex) Dalapon Dinoseb Pentachlorophenol		MB M sult Q .10 .10 .10 .10 .10 .10 .10				MDL	ug/L ug/L ug/L ug/L ug/L			Prej 03/24/2 03/24/2 03/24/2 03/24/2 03/24/2	pared 22 08:28 22 08:28 22 08:28 22 08:28 22 08:28 22 08:28	Prep Type: To Prep Batch 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45	Dil Fac
2,4-Dichlorophenylacetic acid Lab Sample ID: MB 810-1 Matrix: Drinking Water Analysis Batch: 15555 Analyte 2,4,5-TP (Silvex) Dalapon Dinoseb Pentachlorophenol Picloram	100 5484/1-B	MB M sult Q .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	Qualifier			MDL	ug/L ug/L ug/L ug/L ug/L			Prej 03/24/2 03/24/2 03/24/2 03/24/2 03/24/2	pared 22 08:28 22 08:28 22 08:28 22 08:28 22 08:28 22 08:28	Prep Type: To Prep Batch 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45 03/25/22 11:45	Dil Fac

Matrix: Drinking Water Analysis Batch: 15555

Surrogate

2,4-Dichlorophenylacetic acid

Analysis Batch: 15555							Prep Batch: 1	5484
	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2,4,5-TP (Silvex)	0.100	0.0773	J	ug/L		77	48 - 148	
Dinoseb	0.200	0.174		ug/L		87	39 - 141	
Pentachlorophenol	0.0400	0.0380	J	ug/L		95	30 - 171	
Picloram	0.100	0.0731	J	ug/L		73	24 - 150	
2,4-D	0.200	<0.10		ug/L		48	24 - 138	
LLC	S LLCS							

Limits

70 - 130

Method: 551.1 - Chlorinated Disinfection Byproducts and Solvents (GC)

%Recovery Qualifier

90

Lab Sample ID: MB 810-1541 Matrix: Drinking Water Analysis Batch: 15474								le ID: Method Prep Type: To Prep Batch:	otal/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<1.0		1.0		ug/L		03/23/22 10:03	03/24/22 01:49	1
Dichloroacetonitrile	<0.50		0.50		ug/L		03/23/22 10:03	03/24/22 01:49	1

Eurofins Eaton South Bend

Prep Type: Total/NA

Method: 551.1 - Chlorinated Disinfection Byproducts and Solvents (GC) (Continued)

Lab Sample ID: MB 810-15410/1-B **Matrix: Drinking Water**

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 15410

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 15474

1,1-Dichloro-2-propanone <0.50 0.50 ug/L 03/23/22 10:1 Trichloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 Chloroform <1.0 1.0 ug/L 03/23/22 10:1 Bromoform <1.0 1.0 ug/L 03/23/22 10:1 Bromodichloromethane <1.0 1.0 ug/L 03/23/22 10:1 Chloropicrin <0.50 0.50 ug/L 03/23/22 10:1 Bromochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 Bromochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 Bromochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 Harmochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 1,1,1-Trichloro-2-propanone <0.50 0.50 ug/L 03/23/22 10:1 MB MB	That you batch. Tott t								Thep Daten.	10410
Dibromoacetonitrile <0.50		MB	MB							
1,1-Dichloro-2-propanone <0.50 0.50 ug/L 03/23/22 10:1 Trichloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 Chloroform <1.0 1.0 ug/L 03/23/22 10:1 Bromoform <1.0 1.0 ug/L 03/23/22 10:1 Bromodichloromethane <1.0 1.0 ug/L 03/23/22 10:1 Chloropicrin <0.50 0.50 ug/L 03/23/22 10:1 Bromochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 Bromochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 Haromochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 Haromochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:1 1,1,1-Trichloro-2-propanone <0.50 0.50 ug/L 03/23/22 10:1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroacetonitrile <0.50 ug/L 03/23/22 10: Chloroform <1.0	Dibromoacetonitrile	<0.50		0.50		ug/L		03/23/22 10:03	03/24/22 01:49	1
Chloroform <1.0 1.0 ug/L 03/23/22 10:1 Bromoform <1.0	,1-Dichloro-2-propanone	<0.50		0.50		ug/L		03/23/22 10:03	03/24/22 01:49	1
Bromoform <1.0 1.0 ug/L 03/23/22 10:1 Bromodichloromethane <1.0	richloroacetonitrile	<0.50		0.50		ug/L		03/23/22 10:03	03/24/22 01:49	1
Bromodichloromethane <1.0 1.0 ug/L 03/23/22 10:1 Chloropicrin <0.50	Chloroform	<1.0		1.0		ug/L		03/23/22 10:03	03/24/22 01:49	1
Chloropicrin <0.50 0.50 ug/L 03/23/22 10:1 Bromochloroacetonitrile <0.50	Bromoform	<1.0		1.0		ug/L		03/23/22 10:03	03/24/22 01:49	1
Bromochloroacetonitrile <0.50 0.50 ug/L 03/23/22 10:0 1,1,1-Trichloro-2-propanone <0.50	Bromodichloromethane	<1.0		1.0		ug/L		03/23/22 10:03	03/24/22 01:49	1
1,1,1-Trichloro-2-propanone <0.50	Chloropicrin	<0.50		0.50		ug/L		03/23/22 10:03	03/24/22 01:49	1
MB MB	Bromochloroacetonitrile	<0.50		0.50		ug/L		03/23/22 10:03	03/24/22 01:49	1
	,1,1-Trichloro-2-propanone	<0.50		0.50		ug/L		03/23/22 10:03	03/24/22 01:49	1
Surrogate %Recovery Qualifier Limits Prenared		МВ	МВ							
	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane 108 03/23/22 10:0	,2-Dibromopropane	108						03/23/22 10:03	03/24/22 01:49	1

Lab Sample ID: LLCS 810-15410/2-B **Matrix: Drinking Water** Analysis Batch: 15474

Analysis Batch: 15474							Prep Batch: 15410	
	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Dibromochloromethane	1.00	1.04		ug/L		104	50 - 150	
Dichloroacetonitrile	1.00	1.03		ug/L		103		
Dibromoacetonitrile	1.00	0.991		ug/L		99		
1,1-Dichloro-2-propanone	1.00	1.07		ug/L		107		
Trichloroacetonitrile	1.00	0.943		ug/L		94		
Chloroform	1.00	0.992	J	ug/L		99	50 - 150	
Bromoform	1.00	1.07		ug/L		107	50 - 150	
Bromodichloromethane	1.00	0.962	J	ug/L		96	50 - 150	
Chloropicrin	1.00	1.11		ug/L		111		
Bromochloroacetonitrile	1.00	1.06		ug/L		106		
1,1,1-Trichloro-2-propanone	1.00	1.03		ug/L		103		
LLC	S LLCS							

	LLCS	LLCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dibromopropane	102		

Method: 552.2 - Haloacetic Acids (HAAs) (GC)

MB MB

Lab Sample ID: MB 810-15027/1-A Matrix: Drinking Water Analysis Batch: 15075

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 15027

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromoacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 09:38	1
Dichloroacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 09:38	1
Monobromoacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 09:38	1
Monochloroacetic acid	<2.0		2.0		ug/L		03/17/22 08:11	03/18/22 09:38	1
Trichloroacetic acid	<1.0		1.0		ug/L		03/17/22 08:11	03/18/22 09:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Bromopropionic acid (Surr)	93		70 - 130				03/17/22 08:11	03/18/22 09:38	1
	Dibromoacetic acid Dichloroacetic acid Monobromoacetic acid Monochloroacetic acid Trichloroacetic acid Surrogate	AnalyteResultDibromoacetic acid<1.0	Dibromoacetic acid <1.0	AnalyteResultQualifierRLDibromoacetic acid<1.0	AnalyteResultQualifierRLMDLDibromoacetic acid<1.0	AnalyteResultQualifierRLMDLUnitDibromoacetic acid<1.0	AnalyteResultQualifierRLMDLUnitDDibromoacetic acid<1.0	Analyte Result Qualifier RL MDL Unit D Prepared Dibromoacetic acid <1.0	AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDibromoacetic acid<1.0

Eurofins Eaton South Bend

5

9

RL

10

10

MDL Unit

ug/L

ug/L

D

Prepared

Lab Sample ID: MB 810-14912/4

Matrix: Drinking Water

Analysis Batch: 14912

Analyte

Chlorite

Chlorate

Method: 300.0 - Anions, Ion Chromatography

MB MB

<10

<10

Result Qualifier

Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

03/15/22 15:30

03/15/22 15:30

9

Dil Fac

1

1

omorato						~g/ =				00, 10, 22, 10,00	•
Bromide		<10		10		ug/L				03/15/22 15:30) 1
Lab Sample ID: LCS 810-149 Matrix: Drinking Water Analysis Batch: 14912	912/5						Clie	ent Sa	mple ID	: Lab Control Prep Type: 1	
			Spike		LCS	LCS				%Rec	
Analyte			Added	F	-	Qualifier	Unit	D	%Rec	Limits	
Chlorite			250		253		ug/L		101	90 - 110	
Chlorate			250		246		ug/L		98	90 - 110	
Bromide			250		255		ug/L		102	90 - 110	
Lab Sample ID: MB 810-149 Matrix: Drinking Water Analysis Batch: 14976	76/4							Clie	ent Sam	nple ID: Metho Prep Type: 1	
·····,		MB MB									
Analyte	Re	sult Qualifier		RL	I	MDL Unit		D P	repared	Analyzed	Dil Fac
Chloride		<2.0		2.0		mg/L			-	03/15/22 13:38	3 1
Sulfate		<5.0		5.0		mg/L				03/15/22 13:38	3 1
Lab Sample ID: LCS 810-149 Matrix: Drinking Water Analysis Batch: 14976	976/5						Clie	ent Sa	mple ID	: Lab Control Prep Type: 1	
			Spike		LCS	LCS				%Rec	
Analyte			Added	F	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			10.0		10.3		mg/L		103	90 - 110	
Sulfate			25.0		25.8		mg/L		103	90 - 110	
Lab Sample ID: 810-17720-1 Matrix: Drinking Water Analysis Batch: 14976	MS								Clie	ent Sample ID Prep Type: ∃	
·····,	Sample	Sample	Spike		MS	MS				%Rec	
Analyte	Result	Qualifier	Added	F	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	15		10.0		25.1		mg/L		99	90 - 110	
Sulfate	19		25.0		43.7		mg/L		98	90 - 110	
Lab Sample ID: 810-17720-1 Matrix: Drinking Water	MSD								Clie	ent Sample ID Prep Type: ٦	
Analysis Batch: 14976	Sample	Sample	Spike		MSD	MSD				%Rec	RPD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	15		10.0	25.4		mg/L		102	90 - 110	1	20
Sulfate	19		25.0	44.4		mg/L		101	90 - 110	1	20

Job ID: 810-17720-1

17

Method: 317 - Bromate, Ion Chromatography

Lab Sample ID: MBL 810-14989/10										Clie	nt Sam	ple ID: Method	
Matrix: Drinking Water												Prep Type: T	otal/N
Analysis Batch: 14989													
		MBL							_	_	_		
Analyte		Qualifier		RL		MDL	Unit		<u>D</u>	Pr	epared	Analyzed	Dil Fa
Bromate	<0.19			1.0			ug/L					03/16/22 18:27	
Lab Sample ID: LCS 810-14989/11								Clie	ent	San	ple ID	: Lab Control	Sampl
Matrix: Drinking Water												Prep Type: T	
Analysis Batch: 14989													
			Spike		LCS	LCS	;					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Bromate			5.00		4.92			ug/L			98	85 - 115	
Method: 531.2 - Carbamate Pe Lab Sample ID: MBL 810-14952/1-A		les (HP	LC)							Clie		ple ID: Metho	
Matrix: Drinking Water Analysis Batch: 15067												Prep Type: Dis	solve
· · · · · · · · · · · · · · · · · · ·	MBL	MBL											
Analyte	Result	Qualifier		RL	I	MDL	Unit		D	Pr	epared	Analyzed	Dil Fa
Aldicarb	<0.20			0.50			ug/L		-			03/18/22 19:58	
Aldicarb sulfone	<0.20			0.70			ug/L					03/18/22 19:58	
Aldicarb sulfoxide	<0.20			0.50			ug/L					03/18/22 19:58	
Carbofuran	<0.20			0.90			ug/L					03/18/22 19:58	
Oxamyl	<0.20			1.0			ug/L					03/18/22 19:58	
₋ Method: 547 - Glyphosate (DA	I HPL	.C)											
_ Lab Sample ID: MB 810-14840/8-A										Clie	nt Sam	ple ID: Method	d Blan
Matrix: Drinking Water												Prep Type: Dis	
Analysis Batch: 14891													
	мв	МВ											
Analyta		Qualifier					Unit		D	Pr	epared	Analyzed	Dil Fa
Analyte				RL									
Analyte Glyphosate	<6.0	Quaimer		RL 6.0			ug/L		_			03/15/22 19:03	
Glyphosate Lab Sample ID: LCS 810-14840/10-	<6.0							Clie	ent		nple ID:	: Lab Control	Sampl
Glyphosate	<6.0	<u>uuumer</u>						Clie	ent		nple ID:		Sampl
Glyphosate Lab Sample ID: LCS 810-14840/10- Matrix: Drinking Water Analysis Batch: 14891	<6.0		Spike		LCS	LCS	ug/L		ent	San	nple ID	: Lab Control S Prep Type: Dis %Rec	Sampl
Glyphosate Lab Sample ID: LCS 810-14840/10- Matrix: Drinking Water Analysis Batch: 14891 Analyte	<6.0		Added		LCS Result	LCS	ug/L	Unit	ent	San	%Rec	: Lab Control S Prep Type: Dis %Rec Limits	Sampl
Glyphosate Lab Sample ID: LCS 810-14840/10- Matrix: Drinking Water Analysis Batch: 14891	<6.0				LCS	LCS	ug/L		ent	San	nple ID	: Lab Control S Prep Type: Dis %Rec	Sampl
Glyphosate Lab Sample ID: LCS 810-14840/10- Matrix: Drinking Water Analysis Batch: 14891 Analyte	<6.0 A		Added		LCS Result	LCS	ug/L	Unit ug/L		San	%Rec 103	: Lab Control S Prep Type: Dis %Rec Limits	Sampl ssolve
Glyphosate Lab Sample ID: LCS 810-14840/10- Matrix: Drinking Water Analysis Batch: 14891 Analyte Glyphosate Lab Sample ID: LLCS 810-14840/9- Matrix: Drinking Water	<6.0 A		Added		LCS Result	LCS	ug/L	Unit ug/L		San	Nple ID %Rec 103	* Lab Control S Prep Type: Dis %Rec Limits 73 - 122	Sampl ssolve
Glyphosate Lab Sample ID: LCS 810-14840/10- Matrix: Drinking Water Analysis Batch: 14891 Analyte Glyphosate Lab Sample ID: LLCS 810-14840/9-	<6.0 A		Added 50.0		LCS Result 51.6	LCS Qua	ug/L	Unit ug/L		San	Nple ID %Rec 103	: Lab Control S Prep Type: Dis %Rec Limits 73 - 122 : Lab Control S Prep Type: Dis	Sampl ssolve
Glyphosate Lab Sample ID: LCS 810-14840/10- Matrix: Drinking Water Analysis Batch: 14891 Analyte Glyphosate Lab Sample ID: LLCS 810-14840/9- Matrix: Drinking Water	<6.0 A		Added		LCS Result	LCS Qua	ug/L	Unit ug/L		San D San	Nple ID %Rec 103	: Lab Control S Prep Type: Dis %Rec Limits 73 - 122 : Lab Control S	Sampl ssolve

Job ID: 810-17720-1

9

17

Method: 547 - Glyphosate (DAI HPLC) (Continued)

-											
Lab Sample ID: 810-17720 Matrix: Drinking Water	-1 DU								nt Sample ID: Prep Type: Dis		
Analysis Batch: 14891	Somela	Somelo			DU						RPD
Analyte	•	Sample Qualifier			Qualifier	Unit	D		RP		.imi
Glyphosate	<6.0			<6.0	Quaimer	ug/L			<u></u>		19
		au of /UDL	<u></u>	40.0		ug/L				<u> </u>	
Method: 549.2 - Diquat	and Para	quat (HPL	6)								
Lab Sample ID: MB 810-14	934/1-A						Clie	ent Sam	ole ID: Metho	d Bla	anl
Matrix: Drinking Water									Prep Type: T	otal/	/N/
Analysis Batch: 15152									Prep Batch	: 149	934
		MB MB									
Analyte		esult Qualifier			MDL Unit	D		repared	Analyzed	Dil	
Diquat	<	0.40	0.	40	ug/L		03/1	6/22 06:59	03/18/22 15:58		
Lab Sample ID: LCS 810-1	4934/3-A					Client	t Sai	mple ID:	Lab Control	Sam	ple
Matrix: Drinking Water									Prep Type: T		
Analysis Batch: 15152									Prep Batch	: 149	934
			Spike	LCS	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Diquat			5.00	4.70		ug/L		94	70 - 130		
Lab Sample ID: LLCS 810-	14934/2-A					Client	t Sai	mple ID:	Lab Control	Sam	pl
Matrix: Drinking Water								•	Prep Type: T		
Analysis Batch: 15152									Prep Batch		
			Spike	LLCS	LLCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diquat			0.400	0.450		ug/L		112	21 - 161		-
Lab Sample ID: 810-17720	-1 MS							Clie	nt Sample ID:	Wel	II F
Matrix: Drinking Water								•	Prep Type: T		
Analysis Batch: 15152									Prep Batch		
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diquat	<0.40	F1	5.00	2.36	F1	ug/L		47	70 - 130		
Aethod: 331.0 - Perchlo	orate (LC/	/MS/MS)									
-		,					0				
Lab Sample ID: MBL 810-1	4904/12						Cile	ant Samp	ole ID: Metho		
Matrix: Drinking Water									Prep Type: T	otall	
Analysis Batch: 14964		MBL MBL									
Analyta		esult Qualifier		RL	MDL Unit	D	Б	roporod	Apolyzod	Dil	Ea
Analyte Perchlorate			0.0					repared	Analyzed 03/17/22 16:05		Fa
					5	.				•	
Lab Sample ID: LLCS 810-	14964/14					Client	Sal	mpie ID:	Lab Control		
Matrix: Drinking Water									Prep Type: T	otal/	/ 11/
Analysis Batch: 14964			Omilier		11.00				%Dec		
Analyta			Spike		LLCS	11	~	9/ D	%Rec		
Analyte			Added		Qualifier	Unit	_ <u>D</u>	<u>%Rec</u>	Limits		
Perchlorate			0.0500	0.0507		ug/L		101	50 - 150		

Method: 331.0 - Perchlorate (LC/MS/MS) (Continued)

Lab Sample ID: 810-17720-2 L Matrix: Drinking Water					Cilei	nt Sample ID: Prep Type: To	
Analysis Batch: 14964							
	Sample Sample	Spike	LMS LMS			%Rec	
Analyte	Result Qualifier	Added	Result Qualifier	Unit	D %Rec	Limits	
Perchlorate	0.63	0.0500	0.653 4	ug/L	37	50 - 150	
Lab Sample ID: 810-17720-2 L Matrix: Drinking Water	MSD				Clier	nt Sample ID: Prep Type: To	
Analysis Batch: 14964	Ormalia Ormalia	0				0/ D	
A	Sample Sample	Spike	LMSD LMSD	11		%Rec	RP
Analyte	Result Qualifier	Added	Result Qualifier 0.655 4	Unit ug/L	_ <u>D</u> <u>%Rec</u>	Limits RPE	$\frac{1}{5}$ Lim
lethod: 533 - Perfluorinat	ed and Polyfluo				inking Wat	ter	
Lab Sample ID: MBL 810-1493 Matrix: Drinking Water Analysis Batch: 14981	3/1-A MBL MBL				Client Samp	ole ID: Method Prep Type: To Prep Batch	otal/N/
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
Perfluorobutanoic acid (PFBA)	<0.20	2.0	ng/L		03/16/22 06:28	03/16/22 19:38	
Perfluoropentanoic acid (PFPeA)	<0.20	2.0	-		03/16/22 06:28	03/16/22 19:38	
Perfluorohexanoic acid (PFHxA)	<0.20	2.0	•		03/16/22 06:28	03/16/22 19:38	
Perfluoroheptanoic acid (PFHpA)	<0.20	2.0	· · · · · · · · · · · · · · · · · · ·		03/16/22 06:28	03/16/22 19:38	
Perfluorooctanoic acid (PFOA)	<0.20	2.0	0			03/16/22 19:38	
Perfluorononanoic acid (PFNA)	<0.20	2.0				03/16/22 19:38	
Perfluorodecanoic acid (PFDA)	<0.20	2.0	· · · · · · · · · · · · · · · · · · ·			03/16/22 19:38	
Perfluoroundecanoic acid (PFUnA)	<0.20	2.0	0			03/16/22 19:38	
Perfluorododecanoic acid (PFDoA)	0.367 J	2.0	0			03/16/22 19:38	
Perfluorobutanesulfonic acid (PFBS)	<0.20	2.0	· · · · · · · · · · · · · · · · · · ·			03/16/22 19:38	
Perfluoropentanesulfonic acid (PFPeS)	<0.20	2.0	0			03/16/22 19:38	
Perfluorohexanesulfonic acid (PFHxS)	<0.20	2.0	ng/L		03/16/22 06:28	03/16/22 19:38	
Perfluoroheptanesulfonic acid (PFHpS)	<0.20	2.0	· · · · · · · · · · · · · · · · · · ·		03/16/22 06:28	03/16/22 19:38	
Perfluorooctanesulfonic acid (PFOS)	<0.20	2.0	ng/L		03/16/22 06:28	03/16/22 19:38	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.20	2.0	ng/L		03/16/22 06:28	03/16/22 19:38	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.20	2.0	Ũ		03/16/22 06:28	03/16/22 19:38	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.20	2.0	-			03/16/22 19:38	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.20	2.0				03/16/22 19:38	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) 4,8-Dioxa-3H-perfluorononanoic acid	<0.60 <0.20	2.0	Ũ			03/16/22 19:38	
ADONA) -Chlorohexadecafluoro-3-oxanonan	<0.20	2.0	Ũ			03/16/22 19:38	
e-1-sulfonic acid 11-Chloroeicosafluoro-3-oxaundecan	<0.50	2.0				03/16/22 19:38	
e-1-sulfonic acid Perfluoro-4-methoxybutanoic acid	<0.20	2.0	Ū			03/16/22 19:38	
(PFMBA) Perfluoro-3-methoxypropanoic acid	<0.20	2.0	ng/L		03/16/22 06:28	03/16/22 19:38	

9

17

QC Sample Results

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Client Sample ID: Method Blank Lab Sample ID: MBL 810-14933/1-A Matrix: Drinking Water Prep Type: Total/NA Analysis Batch: 14981 Prep Batch: 14933 MBL MBL Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac <0.20 2.0 ng/L 03/16/22 06:28 03/16/22 19:38 Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) MBL MBL Isotope Dilution %Recovery Qualifier Limits Prepared Analyzed Dil Fac 13C4 PFBA 98 50 - 200 03/16/22 06:28 03/16/22 19:38 13C5 PFPeA 97 50 - 200 03/16/22 06:28 03/16/22 19:38 13C5 PFHxA 99 50 - 200 03/16/22 06:28 03/16/22 19:38 97 13C4 PFHpA 50 - 200 03/16/22 06:28 03/16/22 19:38 96 50 - 200 03/16/22 06:28 03/16/22 19:38 13C8 PFOA 13C9 PFNA 104 50 - 200 03/16/22 06:28 03/16/22 19:38 13C6 PFDA 102 50 - 200 03/16/22 06:28 03/16/22 19:38 03/16/22 06:28 03/16/22 19:38 13C7 PFUnA 93 50 - 200 13C2 PFDoA 90 50 - 200 03/16/22 06:28 03/16/22 19:38 13C3 HFPO-DA 95 50 - 200 03/16/22 06:28 03/16/22 19:38 13C3 PFBS 93 50 - 200 03/16/22 06:28 03/16/22 19:38 13C8 PFOS 95 50 - 200 03/16/22 06:28 03/16/22 19:38 13C2-4:2-FTS 90 50 - 200 03/16/22 06:28 03/16/22 19:38 13C2-6:2-FTS 90 50 - 200 03/16/22 06:28 03/16/22 19:38 13C2-8:2-FTS 90 50 - 200 03/16/22 06:28 03/16/22 19:38 13C3 PFHxS 94 50 - 200 03/16/22 06:28 03/16/22 19:38

Lab Sample ID: LLCS 810-14933/2-A Matrix: Drinking Water Analysis Batch: 14981

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 14933

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

9

Analysis Batch: 14981	Spike	LLCS	LLCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	2.00	2.02		ng/L		101	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.07		ng/L		104	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.91	J	ng/L		96	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.02		ng/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.03		ng/L		102	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.94	J	ng/L		97	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.97	J	ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.75	J	ng/L		99	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.92	J	ng/L		102	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.70	J	ng/L		93	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.78	J	ng/L		93	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.85	1.76	J	ng/L		95	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.78	1.78	J	ng/L		100	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.87	2.01		ng/L		107	50 - 150

9

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LLCS 810 Matrix: Drinking Water Analysis Batch: 14981	-14933/2-A	-		-		Clie	ent Sample ID	: Lab Control Sample Prep Type: Total/NA Prep Batch: 14933
Analysis Batch. 14901			Creika	11.00	LLCS			%Rec
Analyte			Spike Added		Qualifier	Unit	D %Rec	%Rec Limits
1H,1H,2H,2H-Perfluorooctane				1.98		ng/L	<u> </u>	50 - 150
sulfonic acid (6:2 FTS)			1.90	1.90	J	ng/L	104	50 - 150
1H,1H,2H,2H-Perfluorodecane			1.92	1.94	.1	ng/L	101	50 ₋ 150
sulfonic acid (8:2 FTS)			1.02	1.04	0	ng/L	101	00-100
Hexafluoropropylene Oxide			2.00	1.95	J	ng/L	98	50 - 150
Dimer Acid (HFPO-DA)						U		
4,8-Dioxa-3H-perfluorononanoic			1.89	1.86	J	ng/L	98	50 - 150
acid (ADONA)								
9-Chlorohexadecafluoro-3-oxan			1.86	1.81	J	ng/L	97	50 - 150
onane-1-sulfonic acid								
11-Chloroeicosafluoro-3-oxaund			1.88	1.65	J	ng/L	87	50 - 150
ecane-1-sulfonic acid			0.00	4 70			00	50, 450
Perfluoro-4-methoxybutanoic			2.00	1.76	J	ng/L	88	50 - 150
acid (PFMBA) Perfluoro-3-methoxypropanoic			2.00	1.79	1	ng/L	90	50 - 150
acid (PFMPA)			2.00	1.75	5	lig/L	50	30 - 130
Nonafluoro-3,6-dioxaheptanoic			2.00	1.94	J	ng/L	97	50 - 150
acid (NFDHA)			2.00		•		0.1	
	LLCS	LLCS						
Isotope Dilution	%Recovery	Qualifier	Limits					
13C4 PFBA	97		50 - 200					
13C5 PFPeA	97		50 - 200					
13C5 PFHxA	99		50 - 200					
13C4 PFHpA	97		50 - 200					
13C8 PFOA	98		50 - 200					
13C9 PFNA	105		50 - 200					
13C6 PFDA	100		50 - 200					
13C7 PFUnA	94		50 - 200					
13C2 PFDoA	93		50 - 200					
13C3 HFPO-DA	96		50 - 200					
13C3 PFBS	90 90		50 - 200 50 - 200					
13C8 PFOS	90 92		50 - 200 50 - 200					
13C2-4:2-FTS	92 92		50 - 200 50 - 200					
13C2-4.2-FTS 13C2-6:2-FTS	92 95		50 - 200 50 - 200					
13C2-8:2-FTS	96		50 - 200					
13C3 PFHxS	90		50 - 200					

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-14935/1-A Matrix: Drinking Water Analysis Batch: 15034

Analysis Batch: 15034								Prep Batch:	14935
	MBL	MBL						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.40		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluoroundecanoic acid (PFUnA)	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluorohexanoic acid (PFHxA)	<0.40		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluorododecanoic acid (PFDoA)	<0.40		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluorooctanoic acid (PFOA)	<0.40		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluorodecanoic acid (PFDA)	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1

Eurofins Eaton South Bend

Client Sample ID: Method Blank

Prep Type: Total/NA

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-14935/1-A Matrix: Drinking Water Analysis Batch: 15034

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 14935

	MBL	MBL							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<0.40		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluoroheptanoic acid (PFHpA)	<0.40		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluorononanoic acid (PFNA)	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluorotetradecanoic acid (PFTeDA)	<0.60		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Perfluorotridecanoic acid (PFTrDA)	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<0.60		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.50		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.61		2.0		ng/L		03/16/22 07:55	03/17/22 15:37	1

	MBL	MBL				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130	03/16/22 07:55	03/17/22 15:37	1
13C2 PFDA	98		70 - 130	03/16/22 07:55	03/17/22 15:37	1
13C3 HFPO-DA	99		70 - 130	03/16/22 07:55	03/17/22 15:37	1
d5-NEtFOSAA	97		70 - 130	03/16/22 07:55	03/17/22 15:37	1

Lab Sample ID: LLCS 810-14935/2-A Matrix: Drinking Water Analysis Batch: 15034

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 14935

Analysis Daten. 10004							т тер Ба	
	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Perfluorooctanesulfonic acid (PFOS)	1.98	2.21		ng/L		112	50 - 150	
Perfluoroundecanoic acid	1.98	2.33		ng/L		118	50 - 150	
(PFUnA)								
Perfluorohexanoic acid (PFHxA)	1.98	2.40		ng/L		121	50 - 150	
Perfluorododecanoic acid (PFDoA)	1.98	2.27		ng/L		114	50 ₋ 150	
Perfluorooctanoic acid (PFOA)	1.98	2.28		ng/L		115	50 ₋ 150	
Perfluorodecanoic acid (PFDA)	1.98	2.27		ng/L		115	50 ₋ 150	
Perfluorohexanesulfonic acid (PFHxS)	1.98	2.17		ng/L		110	50 - 150	
Perfluorobutanesulfonic acid (PFBS)	1.98	2.13		ng/L		108	50 - 150	
Perfluoroheptanoic acid (PFHpA)	1.98	2.49		ng/L		126	50 - 150	
Perfluorononanoic acid (PFNA)	1.98	2.48		ng/L		125	50 ₋ 150	
Perfluorotetradecanoic acid (PFTeDA)	1.98	2.17		ng/L		110	50 - 150	
Perfluorotridecanoic acid (PFTrDA)	1.98	2.23		ng/L		113	50 - 150	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	1.98	2.00		ng/L		101	50 - 150	
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	1.98	2.21		ng/L		112	50 - 150	

Eurofins Eaton South Bend

17

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-14935/2-A Matrix: Drinking Water Analysis Batch: 15034				Client Sample ID: Lab Control Samp Prep Type: Total/N Prep Batch: 149					
	Spike	LLCS	LLCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.98	2.31		ng/L		117	50 - 150		
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	1.98	1.99	J	ng/L		101	50 - 150		
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid	1.98	1.99	J	ng/L		100	50 - 150		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.98	2.36		ng/L		119	50 - 150		
LLCS LLCS									

	LLCS	LLCS	
Surrogate	%Recovery	Qualifier	Limits
13C2 PFHxA	107		70 - 130
13C2 PFDA	101		70 - 130
13C3 HFPO-DA	98		70 - 130
d5-NEtFOSAA	94		70 - 130

Method: 1613B - Tetra Chlorinated Dioxin in Drinking Water

Lab Sample ID: MB 410-236 Matrix: Drinking Water Analysis Batch: 236375	037/1-A							le ID: Method Prep Type: To Prep Batch: :	otal/NA
	MB	MB							
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<4.0		4.0		pg/L		03/21/22 15:00	03/22/22 18:52	1
	MB	MB							
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	91		25 - 164				03/21/22 15:00	03/22/22 18:52	1

Lab Sample ID: LCS 410-236037/2-A
Matrix: Drinking Water
Analysis Batch: 236375

Analysis Batch: 236375									Prep Ba	atch: 236037
-			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
2,3,7,8-TCDD			2.00	1.36	J	pg/L		68	67 - 158	
	LCS	LCS								
Isotope Dilution	%Recovery	Qualifier	Limits							
13C-2,3,7,8-TCDD	93		20 - 175							

Method: 200.7 - Metals (ICP)

Lab Sample ID: MB 810-15167/12 Matrix: Drinking Water Analysis Batch: 15167

	MB MB					
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Sodium	<0.10	0.10	mg/L		03/18/22 14:22	1
Magnesium	<0.10	0.10	mg/L		03/18/22 14:22	1
Iron	<0.020	0.020	mg/L		03/18/22 14:22	1
Calcium	<0.10	0.10	mg/L		03/18/22 14:22	1

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Drinking Water

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

5 9

Method: 200.7 - Metals (ICP) (Continued) Lab Sample ID: MB 810-15167/44

Analysis Batch: 15167							
	MB I	MB					
Analyte	Result (Qualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<0.10	0.10	mg/L			03/18/22 15:31	1
Magnesium	<0.10	0.10	mg/L			03/18/22 15:31	1
Iron	<0.020	0.020	mg/L			03/18/22 15:31	1
Calcium	<0.10	0.10	mg/L			03/18/22 15:31	1

Lab Sample ID: LCS 810-15167/15 **Matrix: Drinking Water** Analysis Batch: 15167

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Sodium	5.00	5.01		mg/L		100	85 - 115
Silica	5.00	4.92		mg/L		98	85 - 115
Potassium	5.00	5.02		mg/L		100	85 ₋ 115
Magnesium	5.00	5.06		mg/L		101	85 - 115
Iron	5.00	5.00		mg/L		100	85 - 115
Calcium	5.00	5.03		mg/L		101	85 ₋ 115

Lab Sample ID: LLCS 810-15167/11 **Matrix: Drinking Water** Analysis Batch: 15167

	Spike	LLCS LLCS			%Rec	
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	
Sodium	0.0100	<0.022	mg/L		50 - 150	1
Silica	0.0200	<0.019	mg/L	93	50 ₋ 150	
Potassium	0.0100	<0.015	mg/L	121	50 ₋ 150	1
Magnesium	0.0100	0.0106 J	mg/L	106	50 ₋ 150	
Iron	0.0100	<0.012	mg/L	117	50 - 150	
Calcium	0.0100	<0.020	mg/L	107	50 - 150	

Lab Sample ID: LLCS 810-15167/13 **Matrix: Drinking Water** Analysis Batch: 15167

	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Sodium	0.100	0.0952	J	mg/L		95	50 - 150	
Silica	0.100	0.0922	J	mg/L		92	50 - 150	
Potassium	0.100	0.0967	J	mg/L		97	50 ₋ 150	
Magnesium	0.100	0.0953	J	mg/L		95	50 - 150	
Calcium	0.100	0.0858	J	mg/L		86	50 ₋ 150	

Lab Sample ID: 810-17720-1 MS **Matrix: Drinking Water** Analysis Batch: 15167

· · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Sodium	6.7		5.00	11.9		mg/L		105	70 - 130
Silica	9.5		5.00	14.5		mg/L		101	70 - 130
Potassium	2.2		5.00	7.50		mg/L		106	70 - 130
Magnesium	16		5.00	20.7		mg/L		95	70 - 130

Eurofins Eaton South Bend

Client Sample ID: Well B

Prep Type: Total/NA

Client Sample ID: Method Blank Prep Type: Total/NA **Client Sample ID: Lab Control Sample**

Client Sample ID: Well B Prep Type: Total/NA

Client Sample ID: Well B

Prep Type: Total/NA

Method: 200.7 - Metals (ICP) (Continued)

Lab Sample ID: 810-17720-1 MS Matrix: Drinking Water

Analysis Batch: 15167										
-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	<0.020		5.00	4.98		mg/L		100	70 - 130	
Calcium	110		5.00	113	4	mg/L		72	70 - 130	

Lab Sample ID: 810-17720-1 MSD Matrix: Drinking Water Analysis Batch: 15167

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sodium	6.7		5.00	11.9		mg/L		105	70 - 130	0	20
Silica	9.5		5.00	14.5		mg/L		100	70 - 130	0	20
Potassium	2.2		5.00	7.49		mg/L		106	70 - 130	0	20
Magnesium	16		5.00	20.6		mg/L		94	70 - 130	0	20
Iron	<0.020		5.00	4.97		mg/L		99	70 - 130	0	20
Calcium	110		5.00	113	4	mg/L		70	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 810-15088/11 Matrix: Drinking Water Analysis Batch: 15088

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0		ug/L			03/17/22 15:21	1
Arsenic	<1.0		1.0		ug/L			03/17/22 15:21	1
Barium	<2.0		2.0		ug/L			03/17/22 15:21	1
Beryllium	<0.30		0.30		ug/L			03/17/22 15:21	1
Cadmium	<0.50		0.50		ug/L			03/17/22 15:21	1
Chromium	<0.90		0.90		ug/L			03/17/22 15:21	1
Copper	<1.0		1.0		ug/L			03/17/22 15:21	1
Lead	<0.50		0.50		ug/L			03/17/22 15:21	1
Manganese	<2.0		2.0		ug/L			03/17/22 15:21	1
Nickel	<1.0		1.0		ug/L			03/17/22 15:21	1
Selenium	<2.0		2.0		ug/L			03/17/22 15:21	1
Silver	<0.50		0.50		ug/L			03/17/22 15:21	1
Thallium	<0.30		0.30		ug/L			03/17/22 15:21	1
Zinc	<5.0		5.0		ug/L			03/17/22 15:21	1

Lab Sample ID: LCS 810-15088/15 Matrix: Drinking Water Analysis Batch: 15088

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	50.0	52.7		ug/L		105	85 - 115	
Antimony	50.0	48.4		ug/L		97	85 - 115	
Arsenic	50.0	48.9		ug/L		98	85 ₋ 115	
Barium	50.0	47.7		ug/L		95	85 ₋ 115	
Beryllium	50.0	49.4		ug/L		99	85 ₋ 115	
Boron	50.0	49.2		ug/L		98	85 ₋ 115	
Cadmium	50.0	48.5		ug/L		97	85 - 115	
Chromium	50.0	48.4		ug/L		97	85 - 115	

Eurofins Eaton South Bend

Prep Type: Total/NA

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 810-15088/15 Matrix: Drinking Water Analysis Batch: 15088

Analysis Balch. 15000	A 11						a/ D	
	Spike	LCS			_		%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cobalt	50.0	48.5		ug/L		97	85 - 115	
Copper	50.0	48.5		ug/L		97	85 - 115	
Lead	50.0	51.0		ug/L		102	85 - 115	
Lithium	50.0	50.1		ug/L		100	85 - 115	
Manganese	50.0	48.6		ug/L		97	85 ₋ 115	
Molybdenum	50.0	48.4		ug/L		97	85 - 115	
Nickel	50.0	49.3		ug/L		99	85 - 115	
Selenium	50.0	48.2		ug/L		96	85 - 115	
Silver	50.0	47.8		ug/L		96	85 - 115	
Strontium	50.0	52.6		ug/L		105	85 - 115	
Thallium	50.0	48.2		ug/L		96	85 - 115	
Thorium	50.0	47.2		ug/L		94	85 - 115	
Tin	50.0	48.5		ug/L		97	85 - 115	
Titanium	50.0	48.8		ug/L		98	85 - 115	
Uranium	50.0	48.4		ug/L		97	85 - 115	
Vanadium	50.0	48.3		ug/L		97	85 - 115	
Zinc	50.0	48.8		ug/L		98	85 - 115	

Lab Sample ID: LLCS 810-15088/13 Matrix: Drinking Water Analysis Batch: 15088

LLCS LLCS Spike %Rec Result Qualifier Analyte Added Limits Unit D %Rec Antimony 1.00 0.966 J 97 50 - 150 ug/L 1.00 Arsenic 1.06 ug/L 106 50 - 150 Barium 1.00 0.889 J ug/L 89 50 - 150 Cobalt 1.00 0.933 J ug/L 93 50 - 150 Copper 1.00 0.957 J 96 50 - 150 ug/L Lithium 1.00 104 1.04 J ug/L 50 - 150 Manganese 1.00 0.970 J ug/L 97 50 - 150 Molybdenum 1.00 0.976 J ug/L 98 50 - 150 Nickel 1.00 0.998 J ug/L 100 50 - 150 Selenium 1.00 <1.6 ug/L 113 50 - 150 Strontium 1.00 1.04 J ug/L 104 50 - 150 Thorium 1.00 0.889 J ug/L 89 50 - 150 Tin 1.00 0.935 J ug/L 94 50 - 150 Titanium 1.00 0.920 J 92 50 - 150 ug/L 1.00 92 Uranium 0.916 J ug/L 50 - 150 Vanadium 1.00 0.840 J ug/L 84 50 - 150 Zinc 1.00 <2.3 ug/L 106 50 - 150

Lab Sample ID: LLCS 810-15088/20 Matrix: Drinking Water Analysis Batch: 15088

	Spike	LLCS	LLCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Aluminum	0.300	<1.5		ug/L		118	50 - 150
Antimony	0.300	0.288	J	ug/L		96	50 - 150
Arsenic	0.300	<0.89		ug/L		120	50 - 150

Eurofins Eaton South Bend

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 810-15088/20 Matrix: Drinking Water Analysis Batch: 15088

Analysis Daten. 10000	Spike	LLCS	LLCS				%Rec
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
Barium	0.300	0.334	J	ug/L		111	50 - 150
Beryllium	0.300	0.349		ug/L		116	50 - 150
Cadmium	0.300	0.320	J	ug/L		107	50 - 150
Chromium	0.300	<0.31		ug/L		94	50 - 150
Cobalt	0.300	0.319	J	ug/L		106	50 - 150
Copper	0.300	<0.55		ug/L		112	50 - 150
Lead	0.300	0.344	J	ug/L		115	50 - 150
Manganese	0.300	0.357	J	ug/L		119	50 - 150
Molybdenum	0.300	0.298	J	ug/L		99	50 - 150
Nickel	0.300	0.318	J	ug/L		106	50 - 150
Selenium	0.300	<1.6		ug/L		135	50 - 150
Silver	0.300	0.304	J	ug/L		101	50 - 150
Strontium	0.300	0.372	J	ug/L		124	50 - 150
Thallium	0.300	0.329		ug/L		110	50 - 150
Thorium	0.300	0.261	J	ug/L		87	50 - 150
Tin	0.300	0.310	J	ug/L		103	50 - 150
Titanium	0.300	<0.70		ug/L		93	50 - 150
Uranium	0.300	0.319	J	ug/L		106	50 - 150
Vanadium	0.300	0.332	J	ug/L		111	50 - 150
Zinc	0.300	<2.3		ug/L		127	50 - 150

Lab Sample ID: LLCS 810-15088/22 Matrix: Drinking Water Analysis Batch: 15088

Analysis Datch. 15000								
	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Boron		5.71		ug/L		114	50 - 150	
Titanium	5.00	4.93	J	ug/L		99	50 - 150	
Zinc	5.00	5.01		ug/L		100	50 - 150	

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 810-15129/1- Matrix: Drinking Water Analysis Batch: 15170	<mark>А</mark> MB	МВ							Clie	ent Samp	ole ID: Method Prep Type: T Prep Batch	otal/NA
Analyte	Result	Qualifier		RL	I	MDL	Unit	D	Р	repared	Analyzed	Dil Fac
Mercury	<0.10			0.10			ug/L		03/1	8/22 11:54	03/18/22 15:40	1
Lab Sample ID: LCS 810-15129/3 Matrix: Drinking Water Analysis Batch: 15170	- A							Clien	t Sa	mple ID:	Lab Control S Prep Type: To Prep Batch	otal/NA
			Spike		LCS	LCS					%Rec	
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	
Mercury			1.00		1.09			ug/L		109	85 - 115	

17

Method: 245.1 - Mercury (CVAA) (Continued) Lab Sample ID: LLCS 810-15129/2-A **Client Sample ID: Lab Control Sample Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15170 Prep Batch: 15129 Spike LLCS LLCS %Rec Added **Result Qualifier** Limits Analyte Unit D %Rec Mercury 0.100 0.103 ug/L 103 50 - 150 Method: 150.1 - pH (Electrometric) Lab Sample ID: LCSSRM 810-14683/4 **Client Sample ID: Lab Control Sample Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 14683 LCSSRM LCSSRM %Rec Spike Added **Result Qualifier** Unit D %Rec Limits Analyte 9.00 SU 9.1 100.9 98.9 - 101. pН 1 **Client Sample ID: Lab Control Sample** Lab Sample ID: LCSSRM 810-14683/9 **Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 14683 Spike LCSSRM LCSSRM %Rec Added Analyte **Result Qualifier** Unit D %Rec Limits 9.00 SU рΗ 9.0 100.1 98.9 - 101. 1 Method: 180.1 - Turbidity, Nephelometric Lab Sample ID: MB 810-14701/4 **Client Sample ID: Method Blank Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 14701 MB MB RL RL Unit Analyte **Result Qualifier** D Prepared Analyzed Dil Fac Turbidity 0.10 NTU 03/11/22 15:56 <0.10 Lab Sample ID: LLCS 810-14701/3 **Client Sample ID: Lab Control Sample Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 14701 Spike LLCS LLCS %Rec Analyte Added **Result Qualifier** Unit %Rec l imits D 0.116 0.10 NTU 99 Turbidity 50 - 150Method: 335.4 - Cyanide, Total Lab Sample ID: MB 810-15099/30-A **Client Sample ID: Method Blank Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15128 Prep Batch: 15099 MB MB **Result Qualifier** RL MDL Unit Dil Fac Analyte D Prepared Analyzed 03/18/22 06:45 03/18/22 11:05 Cyanide, Total <0.0050 0.0050 mg/L 1 Lab Sample ID: MB 810-15099/4-A **Client Sample ID: Method Blank Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15128 Prep Batch: 15099 MB MB Dil Fac Analyte **Result Qualifier** RL MDL Unit Prepared Analyzed D Cyanide, Total <0.0050 0.0050 03/18/22 06:45 03/18/22 10:37 mg/L

Job ID: 810-17720-1

17

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 810-1	5099/29-A					Clier	nt Sar	nple ID:	Lab Contro	ol Sa	ample
Matrix: Drinking Water								-	Prep Type		
Analysis Batch: 15128									Prep Bat		
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Cyanide, Total			0.100	0.100		mg/L		100	90 - 110		
Lab Sample ID: LLCS 810-	15099/3-A					Clier	nt Sar	nple ID:	Lab Contro	ol Sa	ample
Matrix: Drinking Water									Prep Type	: Tot	tal/NA
Analysis Batch: 15128									Prep Bat	ch: '	15099
			Spike	LLCS	LLCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Cyanide, Total			0.00500	0.00510		mg/L		102	80 - 120		
Lab Sample ID: MB 810-15	406/4-A						Clie	ent Sam	ple ID: Meth	nod	Blank
Matrix: Drinking Water									Prep Type		
Analysis Batch: 15441									Prep Bat		
		MB MB									
Analyte	Re	sult Qualifie	ər	RL	MDL Unit	D) P	repared	Analyzed		Dil Fac
Cyanide, Total	<0.0	0050	0.0	0050	mg/L		03/2	3/22 10:14	· · · · ·		1
Lab Sample ID: LCS 810-1	5406/2-A					Clier	nt Sar	nole ID:	Lab Contro	ol Sa	ample
Matrix: Drinking Water									Prep Type		
Analysis Batch: 15441									Prep Bat		
			Spike	LCS	LCS				%Rec	•	10100
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Cyanide, Total			0.100	0.0967		mg/L		97	90 - 110		
Lab Sample ID: LLCS 810-	15406/3-A					Clier	nt Sar	nole ID [.]	Lab Contro	ol Sa	ample
Matrix: Drinking Water						•	it oui	inpro inpr	Prep Type		
Analysis Batch: 15441									Prep Bat		
			Spike	LLCS	LLCS				%Rec	•	10100
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Cyanide, Total			0.00500	0.00470		mg/L		94	80 - 120		
Lab Sample ID: 810-17720-	-2 MS							Clie	nt Sample I	D: S	prina
Matrix: Drinking Water									Prep Type		-
Analysis Batch: 15441									Prep Bat		
······, ·····	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Cyanide, Total	<0.0050		0.100	0.0968		mg/L		97	90 - 110		
Lab Sample ID: 810-17720-	-2 MSD							Clie	nt Sample I	D: S	prina
Matrix: Drinking Water									Prep Type		•
Analysis Batch: 15441									Prep Bat		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec		RPD	Limit
Cyanide, Total	< 0.0050		0.100	0.0978		mg/L		98	90 - 110	1	20
						0			-		-

Analysis Batch: 236798

QC Sample Results

Job ID: 810-17720-1

17

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 810-14893/19									C	Clie	nt Sam	ple ID: Meth	
Matrix: Drinking Water												Prep Type:	Total/N
Analysis Batch: 14893	МВ	мв											
Analyte		Qualifier		RL		мпі	Unit		D	P	repared	Analyzed	Dil F
Nitrite as N	<0.010	Quanner		0.010			mg/L		<u> </u>		epareu	- 03/15/22 09:4	
Lab Sample ID: LCS 810-14893/15								Cli	ent \$	Sar	nple ID:	Lab Contro	I Samp
Matrix: Drinking Water												Prep Type:	Total/N
Analysis Batch: 14893													
			Spike		-	LCS						%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Nitrite as N			0.200		0.205			mg/L			102	90 - 110	
Lab Sample ID: LLCS 810-14893/18								Cli	ent s	Sar	nnle ID [.]	Lab Contro	l Samn
Matrix: Drinking Water	,							011		Jui		Prep Type:	
Analysis Batch: 14893													i o taint
,			Spike		LLCS	LLC	S					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Nitrite as N			0.0100	(0.00970	J		mg/L		_	97	50 - 150	
Analysis Batch: 14894		MB							_	_			
Analyte		Qualifier		RL	I	MDL	Unit		<u>D</u>	Pi	repared	Analyzed	
litrate Nitrite as N	<0.10			0.10			mg/L					03/15/22 14:1	0
_ab Sample ID: LCS 810-14894/16								Cli	ent s	Sar	nple ID:	Lab Contro	l Samp
Matrix: Drinking Water												Prep Type:	
Analysis Batch: 14894													
			Spike		LCS	LCS	i					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Nitrate Nitrite as N			4.00		4.15			mg/L			104	90 - 110	
Lab Sample ID: LLCS 810-14894/19								Cli	ont	Sar	nnle ID [.]	Lab Contro	l Samn
Matrix: Drinking Water								011	cine (Jui	inpic ib.	Prep Type:	
Analysis Batch: 14894													i o taint
			Spike		LLCS	LLC	s					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Nitrate Nitrite as N			0.100		0.0834	J		mg/L		_	83	50 - 150	
ethod: 420.4 - Phenolics, Tot	al Re	covera	ble										
_ab Sample ID: MB 410-236798/28									•	lio	nt Sam	ple ID: Meth	od Blar
Matrix: Water										5110	un oum	Prep Type:	

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<0.020		0.020		mg/L			03/23/22 10:00	1

Job ID: 810-17720-1

9

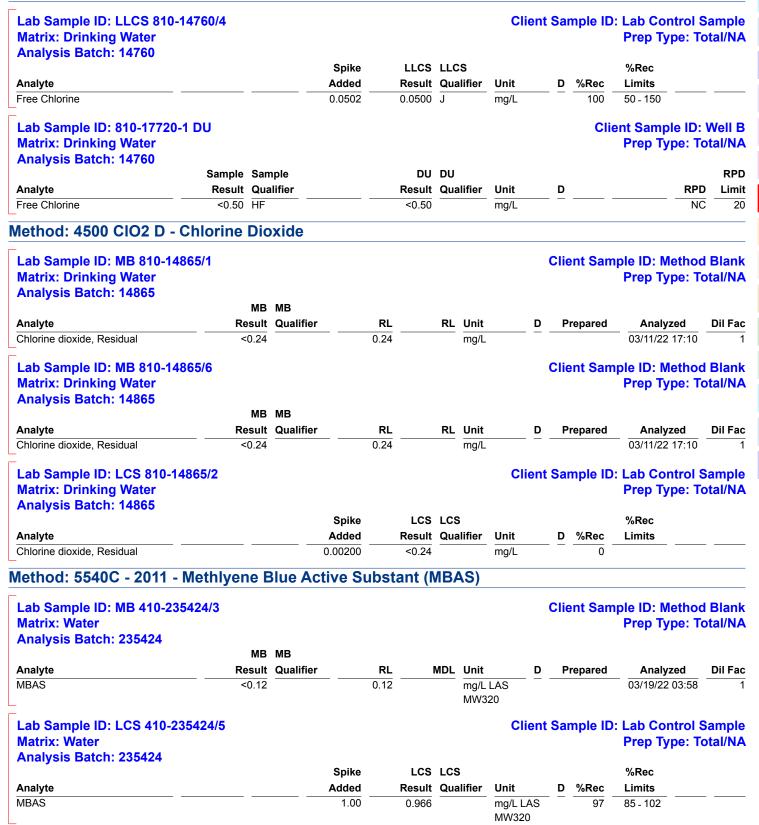
Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 410-236798/2	6							0	ont	S		I ah Contro	10	
· · · · · · · · · · · · · · · · · · ·	0							CII	ent	Sar	npie ID	: Lab Contro		
Matrix: Water												Prep Type:	10	
Analysis Batch: 236798			Omilia		1.00							0/ D = =		
A			Spike		LCS			11		_	0/ D	%Rec		
Analyte			Added		Result	Qua	litter	Unit		D	%Rec	Limits		
Phenols, Total			0.250		0.244			mg/L			97	90 - 110		
Lab Sample ID: LCSD 410-236798 Matrix: Water	/27						С	lient S	Sam	ple	ID: Lab	Control Sar Prep Type:		
Analysis Batch: 236798														
-			Spike		LCSD	LCS	D					%Rec		RP
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits R	PD	Lim
Phenols, Total			0.250		0.248			mg/L		_	99	90 - 110	2	
lethod: 4500 CI F Amine - Ch Lab Sample ID: MB 810-14705/1 Matrix: Drinking Water Analysis Batch: 14705	nloram	ines								Clie	ent Sam	ple ID: Meth Prep Type:		
-	МВ	МВ												
Analyte	Result	Qualifier		RL		RL	Unit		D	P	repared	Analyzed		Dil Fa
Monochloramine	<0.10			0.10			mg/L		_			03/11/22 16:2	25	
Dichloramine	<0.10			0.10			mg/L					03/11/22 16:2	25	
Nitrogen trichloride	<0.20			0.20			mg/L					03/11/22 16:2	25	
Chloramines, Total	<0.20			0.20			mg/L					03/11/22 16:2	25	
Lab Sample ID: MB 810-14705/4 Matrix: Drinking Water Analysis Batch: 14705	MD	MB								Clie	ent Sam	ple ID: Meth Prep Type:		
A		MB				-	1114		_	-		A		D '' F
Analyte		Qualifier		RL		RL	Unit		D	- 11	repared	Analyzed		Dil F
Monochloramine	<0.10			0.10			mg/L					03/11/22 16:3		
Dichloramine	<0.10			0.10			mg/L					03/11/22 16:3		
Nitrogen trichloride	<0.20			0.20			mg/L					03/11/22 16:3		
Chloramines, Total	<0.20			0.20			mg/L					03/11/22 16:3	84	
lethod: 4500 Cl G - Chlorine	, Free													
Lab Sample ID: MB 810-14760/6										Clie	nt Sam	ple ID: Meth	od	Blar
Matrix: Drinking Water												· Prep Type:		
Analysis Batch: 14760														
-	MB	МВ												
Analyte	Result	Qualifier		RL	ľ	MDL	Unit		D	Pi	repared	Analyzed		Dil Fa
Free Chlorine	<0.50			0.50			mg/L		_			03/11/22 18:1	7	
Lab Sample ID: LCS 810-14760/5								Cli	ent	Sar	nnle ID	: Lab Contro	I S	amn
Matrix: Drinking Water									5.11	Jui		Prep Type:		
Analysis Batch: 14760												i ich i the.	101	an N
Analysis Daton. 14/00			Spike		LCS	1.09						%Rec		
			opino		200		•					/01000		
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits		

QC Sample Results

Job ID: 810-17720-1

Method: 4500 CI G - Chlorine, Free (Continued)



Alkalinity, Total

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water										Job ID: 810-	17720-1
Method: 5540C - 2011 - Methly	yene E	Blue Ac	tive St	ubstant	(MB	AS) ((Contin	ued	l)		
Lab Sample ID: LCSD 410-235424/ Matrix: Water	/6					C	Client Sar	mple	∍ ID: Lab	Control Sam Prep Type: T	
Analysis Batch: 235424											
			Spike	-	SD LC					%Rec	RPD
Analyte			Added			ualifier	Unit	<u> </u>		Limits RP	
MBAS -			1.00	0.98	34		mg/L LAS MW320		98	85 - 102	2 6
Method: SM 2120B - Color, Co	olorim	etric									
Lab Sample ID: MB 810-14691/10								Cli	ient Sam	nple ID: Metho	
Matrix: Drinking Water										Prep Type: T	otal/NA
Analysis Batch: 14691	мр										
Awahita		MB Qualifier		RL	мпі	L Unit	D	、 r	Propared	Applyzod	Dil Eac
Analyte Color, Apparent	Kesuit <5.0			RL 5.0			r Units	·	Prepared	Analyzed 03/11/22 15:18	Dil Fac
	-0.0			5.0		00101	Units			00/11/22 10.10	I
Lab Sample ID: LCSSRM 810-1469	э1/11						Clier	ıt Sa	imple ID	: Lab Control	Sample
Matrix: Drinking Water									-	Prep Type: T	otal/NA
Analysis Batch: 14691											
			Spike	LCSSR						%Rec	
Analyte			Added			ualifier		D		Limits	
Color, Apparent			20.0	20	.0		Color Unit	S	100.0	100 100. 0 0	
Method: SM 2150B - Odor											
Lab Sample ID: MB 810-14758/1								Cli	ient Sam	ple ID: Metho	d Blank
Matrix: Drinking Water										· Prep Type: T	
Analysis Batch: 14758										-	
		MB									
Analyte		Qualifier		RL	RL	L Unit		/ _ F	Prepared	Analyzed	Dil Fac
Odor	<1.0			1.0		T.O.N	۱.			03/11/22 14:48	1
Method: SM 2320B - Alkalinity	<u>y</u>										
Lab Sample ID: MB 810-15176/9								Cli	ent Sam	nple ID: Metho	
Matrix: Drinking Water										Prep Type: T	otal/NA
Analysis Batch: 15176											
		MB					_				
Analyte		Qualifier			RL	L Unit		, F	Prepared	Analyzed	Dil Fac
Alkalinity, Bicarbonate	<1.0			1.0		mg/L				03/18/22 18:33	
Alkalinity, Total	<1.0			1.0		mg/L				03/18/22 18:33	1
Lab Sample ID: LCS 810-15176/7							Clier	ıt Sa	ample ID	: Lab Control	Sample
Matrix: Drinking Water										Prep Type: T	
Analysis Batch: 15176											
······			Spike	LC	S LC	s				%Rec	
Analyte			Added	Resu	ult Qu	ualifier	Unit	D	%Rec	Limits	
			400							70 111	

Eurofins Eaton South Bend

78 - 114

90

100

90.2

mg/L

9

Method: SM 2320B - Alkalinity (Continued) Lab Sample ID: LLCS 810-15176/8 **Client Sample ID: Lab Control Sample Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15176 Spike LLCS LLCS %Rec Analyte Added Result Qualifier Unit Limits D %Rec Alkalinity, Total 1.00 <1.0 mg/L 56 50 - 150 Method: SM 2510B - Conductivity, Specific Conductance Lab Sample ID: LCS 810-15021/4 **Client Sample ID: Lab Control Sample Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15021 Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits 998 90 - 110 Specific Conductance 986 uS/cm 99 Lab Sample ID: LLCS 810-15021/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA **Matrix: Drinking Water** Analysis Batch: 15021 Spike LLCS LLCS %Rec Analyte Added Result Qualifier Unit Limits D %Rec Specific Conductance 9.91 11.2 uS/cm 113 80 - 120 Lab Sample ID: 810-17720-1 DU **Client Sample ID: Well B Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15021 DU DU RPD Sample Sample **Result Qualifier** RPD Analyte Result Qualifier Unit D Limit Specific Conductance 690 682 uS/cm 0.8 20 Method: SM 2540C - Solids, Total Dissolved (TDS) Lab Sample ID: MR 810-15041/1 Mathad Die

Lab Sample ID: MB 810-15041/1									Clie	ent Sam	ple ID: Method	Blank
Matrix: Drinking Water											Prep Type: To	tal/NA
Analysis Batch: 15041												
	M	3 MB										
Analyte	Resu	lt Qualifier		RL		RL l	Jnit		D P	repared	Analyzed	Dil Fac
Total Dissolved Solids	<1	0		10		r	ng/L				03/17/22 10:14	1
Lab Sample ID: LCS 810-15041/2								Clie	ent Sai	nple ID	: Lab Control S	ample
Matrix: Drinking Water											Prep Type: To	tal/NA
Analysis Batch: 15041												
-			Spike		LCS	LCS					%Rec	
Analyte			Added		Result	Quali	fier	Unit	D	%Rec	Limits	
Total Dissolved Solids			1000		986			mg/L		99	85 - 115	
Lab Sample ID: 810-17720-1 DU										Cli	ent Sample ID: V	Well B
Matrix: Drinking Water											Prep Type: To	tal/NA
Analysis Batch: 15041												
San	nple Sa	mple			DU	DU						RPD
Analyte Re	sult Qu	ualifier			Result	Quali	fier	Unit	D		RPD	Limit
Total Dissolved Solids	380				378			mg/L			0.5	10

Job ID: 810-17720-1

Method: SM 2540D - Solids, Total Suspended (TSS)

-					- /									
Lab Sample ID: MB 81										С	lie		ole ID: Metho	
Matrix: Drinking Water													Prep Type: T	otal/N
Analysis Batch: 14988	3													
Amelate			MB							-			A	
Analyte			Qualifier		RL		RL	Unit		D	Pr	epared	Analyzed	Dil Fa
Total Suspended Solids		<10			10			mg/L					03/16/22 14:06	
Lab Sample ID: LCS 8	10-14988/2								Clie	ent S	an	nple ID:	Lab Control	Sampl
Matrix: Drinking Wate												•	Prep Type: T	
Analysis Batch: 14988														
				Spike		LCS	LCS	5					%Rec	
Analyte				Added		Result	Qua	lifier	Unit	I	D	%Rec	Limits	
Total Suspended Solids				100		90.0			mg/L			90	75 - 105	
lethod: SM 4500 F	C - Fluorio	de												
Lab Sample ID: MB 81	0-15119/6									С	lie	nt Samp	ole ID: Metho	d Blan
Matrix: Drinking Water													Prep Type: T	otal/N
Analysis Batch: 15119														
		MB	MB											
Analyte			Qualifier		RL		MDL	Unit		D	Pr	epared	Analyzed	Dil Fa
Fluoride		<0.050		(0.050			mg/L					03/18/22 07:16	
Lab Sample ID: LCS 8	10 15110/4								CII	ont C	20		Lab Control	Sampl
Matrix: Drinking Wate									Cin	ent S	an	ipie ib.	Prep Type: T	
Analysis Batch: 15119													пер турс. т	
Analysis Baton. Torre	·			Spike		LCS	LCS	5					%Rec	
Analyte				Added		Result	Qua	lifier	Unit	1	D	%Rec	Limits	
Fluoride				2.00		2.19			mg/L			110	90 - 110	
Lab Sample ID: LLCS									Clie	ent S	an	nple ID:	Lab Control	
Matrix: Drinking Water													Prep Type: T	otal/N
Analysis Batch: 15119				Spike		LLCS							%Rec	
Analyte				Added		Result			Unit		D	%Rec	Limits	
Fluoride				0.0500		0.0300			mg/L		_	60	50 - 150	
							-							
lethod: 7110B - Gr	oss Alpha	and C	iross E	Beta Ra	dioa	activi	ty							
Lab Sample ID: MB 81										С	lie	nt Samp	ole ID: Metho	
Matrix: Drinking Wate													Prep Type: T	
Analysis Batch: 16607	,												Prep Batch	: 1512
			Count	Total										
A seal of a	MB MB		Uncert.	Uncert.		- .	-		11		-		A	D -
Analyte	Result Qualif	ier	(σ+/-)	(σ+/-)		RL						epared	Analyzed	Dil Fa
	-0.6500 U -0.8800 U					3.00 4.00		1.08 1.77				3/22 10:21	04/08/22 08:36 04/08/22 08:36	
01033 DEla	-0.0000 0					4.00		1.77	POIL	03	יו וכ	וע.21	04/00/22 00.30	
Lab Sample ID: LCS 8	10-15122/2-4	4							Clie	ent S	an	nple ID:	Lab Control	Sampl
Matrix: Drinking Wate												1	Prep Type: T	
Analysis Batch: 16607													Prep Batch	
-					т	otal							-	
		Spike	LCS	LCS	Und	cert.							%Rec	
Analyte		Added	Result	Qual	(c	5+/-)		RL _	MDC	Unit		%Rec	Limits	
Gross Alpha		30.4	31.28				3	.00	1 07	pCi/L		103	80 - 120	

Eurofins Eaton South Bend

17

QC Sample Results

Job ID: 810-17720-1

Method: 7110B - Gross Alpha and Gross Beta Radioactivity (Continued) Lab Sample ID: LCS 810-15122/2-A **Client Sample ID: Lab Control Sample** Matrix: Drinking Water Prep Type: Total/NA Analysis Batch: 16607 Prep Batch: 15122 Total Spike LCS LCS Uncert. %Rec Added Result Qual %Rec Analyte (σ+/-) RL MDC Unit Limits Gross Beta 39.0 32.14 4.00 2.14 pCi/L 82 80 - 120 Method: SM7500 Ra B - Radium-226 Lab Sample ID: MB 810-15102/1-A **Client Sample ID: Method Blank Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15877 Prep Batch: 15102 Count Total MR MR Uncert. Uncert. Analyte Result Qualifier (σ+/-) (**σ**+/-) RL MDC Unit Prepared Analyzed Dil Fac Ra-226 0.0000 U 1.00 0.150 pCi/L 03/18/22 07:56 03/29/22 09:47 1 Lab Sample ID: LCS 810-15102/2-A **Client Sample ID: Lab Control Sample Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15877 Prep Batch: 15102 Total Spike LCS LCS %Rec Uncert. Added Analyte **Result Qual** (σ+/-) RL MDC Unit %Rec Limits Ra-226 9.89 8.190 1.00 0.150 pCi/L 83 90 - 110 Method: SM7500 Ra D - Radium-228 Lab Sample ID: MB 810-15101/1-A **Client Sample ID: Method Blank** Prep Type: Total/NA **Matrix: Drinking Water** Analysis Batch: 17228 Prep Batch: 15101 Count Total MB MB Uncert. Uncert. Analyte Result Qualifier RL MDC Unit Prepared (σ+/-) (σ+/-) Analyzed Dil Fac Ra-228 -0.1000 Ū 1.00 0.480 pCi/L 03/18/22 07:52 04/14/22 11:06 Method: SM7500_Rn_B - Radon Lab Sample ID: MB 810-15451/13 **Client Sample ID: Method Blank Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15451 Count Total MB MB Uncert. Uncert. Result Qualifier MDC Unit Analyte (σ+/-) (σ+/-) RL Prepared Analyzed Dil Fac Radon 222 -3.680 U 12.0 7.30 pCi/L 03/11/22 15:34 1 Lab Sample ID: MB 810-15451/17 **Client Sample ID: Method Blank Matrix: Drinking Water** Prep Type: Total/NA Analysis Batch: 15451 Count Total MB MB Uncert. Uncert. Analyte Result Qualifier (**σ**+/-) (**σ**+/-) RL MDC Unit Prepared Analyzed Dil Fac -1.820 U 03/12/22 10:32 Radon 222 12.0 8.42 pCi/L

Job ID: 810-17720-1

Method: SM7500_Rn_B - Radon (Continued)

Lab Sample ID: LCS 810-15451/12 Matrix: Drinking Water						CI	lie	nt S	amp	le ID:	Lab Control Prep Type: 1	
Analysis Batch: 15451											пер турс.	
				Total								
	Spike	LCS	LCS	Uncert.							%Rec	
Analyte	Added	Result	Qual	(σ+/-)	I	RL MDC	2	Unit	9	%Rec	Limits	
Radon 222	10800	10420			12	2.0 7.10	0	pCi/L		96	90 - 110	
Lab Sample ID: LCS 810-15451/16						CI	lie	nt S	amp	le ID:	Lab Control	Sample
Matrix: Drinking Water											Prep Type: 1	Total/NA
Analysis Batch: 15451												
				Total								
	Spike		LCS	Uncert.							%Rec	
	Added	Result	Qual	(σ+/-)		RL MDC			9	%Rec	Limits	
Radon 222	10800	10760			12	2.0 7.10	0	pCi/L		99	90 - 110	
Lab Sample ID: SFB 810-15451/14					Cli	ient Sampl	le	ID: S	Seco	nd So	ource Fortifie	
Matrix: Drinking Water											Prep Type:]	Total/NA
Analysis Batch: 15451												
				Total								
	Spike	-	SFB	Uncert.							%Rec	
	Added	Result	Qual	(σ+/-)		RL MDC	_		9	%Rec	Limits	
Radon 222	8680	9049			12	2.0 7.10	0	pCi/L		104	90 - 110	
Lab Sample ID: SFB 810-15451/15					Cli	ient Sampl	le	ID: S	Seco	nd So	ource Fortifie	
Matrix: Drinking Water					Cli	ient Sampl	le	ID: S	Seco	nd So	ource Fortifie Prep Type: 1	
-					Cli	ient Sampl	le	ID: S	Seco	nd So		
Matrix: Drinking Water				Total	Cli	ient Sampl	le	ID: S	Seco	nd So	Prep Type: 1	
Matrix: Drinking Water Analysis Batch: 15451	Spike	-	SFB	Uncert.							Prep Type: 7	
Matrix: Drinking Water Analysis Batch: 15451 Analyte	Spike Added	Result			I	RL MDC	2	Unit	9	%Rec	Prep Type: 7 %Rec Limits	
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222	Spike Added 8680	Result 9005	Qual	Uncert. (σ+/-)	I	RL MDC	2		9		Prep Type: 7	
Matrix: Drinking Water Analysis Batch: 15451 Analyte	Spike Added 8680	Result 9005	Qual	Uncert. (σ+/-)	I	RL MDC	2	Unit	9	%Rec	Prep Type: 7 %Rec Limits	
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222	Spike Added 8680	Result 9005	Qual	Uncert. (σ+/-)	I	RL MDC	2	Unit pCi/L	9	% Rec 104	Prep Type: 7 %Rec Limits	Total/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro	Spike Added 8680	Result 9005	Qual	Uncert. (σ+/-)	I	RL MDC	2	Unit pCi/L	9	% Rec 104	Prep Type: 7 %Rec Limits 90 - 110	Fotal/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5	Spike Added 8680	Result 9005	Qual	Uncert. (σ+/-)	I	RL MDC	2	Unit pCi/L	9	% Rec 104	Prep Type: 7 %Rec Limits 90 - 110	Fotal/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5 Matrix: Drinking Water	Spike Added 8680 Phic P	Result 9005	Qual	Uncert. (σ+/-)	I	RL MDC	2	Unit pCi/L	9	% Rec 104	Prep Type: 7 %Rec Limits 90 - 110	Fotal/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5 Matrix: Drinking Water	Spike Added 8680 Phic P	Result 9005 Plate Co	Qual	Uncert. (σ+/-)	12 12	RL MDC		Unit pCi/L	9	%Rec 104 Sam	Prep Type: 7 %Rec Limits 90 - 110	Fotal/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5 Matrix: Drinking Water Analysis Batch: 14664	Spike Added 8680 Phic P	Result 9005 Plate Co	Qual	Uncert. (σ+/-) 1PC)	12 12	RL MDC 2.0 7.10		Unit pCi/L	<u>%</u> lient	%Rec 104 Sam	Prep Type: 7 %Rec Limits 90 - 110	Total/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5 Matrix: Drinking Water Analysis Batch: 14664 Analyte	Spike Added 8680 Phic P MB Result	Result 9005 Plate Co	Qual	Uncert. (σ+/-) HPC)	12 12	RL MDC 2.0 7.10		Unit pCi/L C	^ lient Prepa	%Rec 104 Samj	Prep Type: 7 %Rec Limits 90 - 110 ple ID: Metho Prep Type: 7 Analyzed	Total/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5 Matrix: Drinking Water Analysis Batch: 14664 Analyte Heterotrophic Plate Count	Spike Added 8680 Phic P MB Result	Result 9005 Plate Co	Qual	Uncert. (σ+/-) HPC)	12 12	RL MDC 2.0 7.10		Unit pCi/L C	^ lient Prepa	%Rec 104 Samj	Prep Type: %Rec Limits 90 - 110 ole ID: Metho Prep Type: Analyzed 03/11/22 11:44	Total/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5 Matrix: Drinking Water Analyte Heterotrophic Plate Count Lab Sample ID: POS 810-14664/4	Spike Added 8680 Phic P MB Result	Result 9005 Plate Co	Qual	Uncert. (σ+/-) HPC)	12 12	RL MDC 2.0 7.10		Unit pCi/L C	^ lient Prepa	%Rec 104 Samj	Arep Type: %Rec Limits 90 - 110 ole ID: Metho Prep Type: Analyzed 03/11/22 11:44 ID: Positive	Total/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5 Matrix: Drinking Water Analysis Batch: 14664 Analyte Heterotrophic Plate Count Lab Sample ID: POS 810-14664/4 Matrix: Drinking Water	Spike Added 8680 Phic P MB Result <2.0	Result 9005 Plate Co	Qual	Uncert. (σ+/-) HPC)	12 12	RL MDC 2.0 7.10		Unit pCi/L C	^ lient Prepa	%Rec 104 Samj	Arep Type: %Rec Limits 90 - 110 ole ID: Metho Prep Type: Analyzed 03/11/22 11:44 ID: Positive	Total/NA
Matrix: Drinking Water Analysis Batch: 15451 Analyte Radon 222 Method: SimPlate - Heterotro Lab Sample ID: MB 810-14664/5 Matrix: Drinking Water Analysis Batch: 14664 Analyte Heterotrophic Plate Count Lab Sample ID: POS 810-14664/4 Matrix: Drinking Water	Spike Added 8680 Phic P MB Result <2.0	Result 9005	Qual	Uncert. (σ+/-) HPC)	12 	RL MDC 2.0 7.10		Unit pCi/L C	^ lient Prepa	^{&} Rec 104 Sample	Prep Type: 7 %Rec Limits 90 - 110 ple ID: Metho Prep Type: 7 Analyzed 03/11/22 11:44 ID: Positive	Total/NA od Blank Total/NA Dil Fac Dil Fac Dil Fac

10

4	7

GC/MS VOA

Analysis Batch: 14993

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
810-17720-1	Well B	Total/NA	Drinking Water	524.2	
810-17720-2	Spring	Total/NA	Drinking Water	524.2	
MB 810-14993/5	Method Blank	Total/NA	Drinking Water	524.2	
nalysis Batch: 150	73				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
810-17720-1	Well B	Total/NA	Drinking Water	524.2	
810-17720-2	Spring	Total/NA	Drinking Water	524.2	
MB 810-15073/5	Method Blank	Total/NA	Drinking Water	524.2	
Analysis Batch: 151	23				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	524.2	
810-17720-2	Spring	Total/NA	Drinking Water	524.2	
GC/MS Semi VO	A				
Prep Batch: 14823					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	548.1	
810-17720-2	Spring	Total/NA	Drinking Water	548.1	
MB 810-14823/1-A	Method Blank	Total/NA	Drinking Water	548.1	
LCS 810-14823/2-A	Lab Control Sample	Total/NA	Drinking Water	548.1	
LLCS 810-14823/3-A	Lab Control Sample	Total/NA	Drinking Water	548.1	
Prep Batch: 15033					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	525.2	
MB 810-15033/1-A	Method Blank	Total/NA	Drinking Water	525.2	
LCS 810-15033/3-A	Lab Control Sample	Total/NA	Drinking Water	525.2	
LLCS 810-15033/2-A	Lab Control Sample	Total/NA	Drinking Water	525.2	
Analysis Batch: 150	42				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	548.1	1482
810-17720-2	Spring	Total/NA	Drinking Water	548.1	1482
MB 810-14823/1-A	Method Blank	Total/NA	Drinking Water	548.1	1482
LCS 810-14823/2-A	Lab Control Sample	Total/NA	Drinking Water	548.1	1482
LLCS 810-14823/3-A	Lab Control Sample	Total/NA	Drinking Water	548.1	1482
Analysis Batch: 150	85				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	525.2	1503
MB 810-15033/1-A	Method Blank	Total/NA	Drinking Water	525.2	1503
LCS 810-15033/3-A	Lab Control Sample	Total/NA	Drinking Water	525.2	1503
LLCS 810-15033/2-A	Lab Control Sample	Total/NA	Drinking Water	525.2	1503
Prep Batch: 15115					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
	Spring	Total/NA	Drinking Water	525.2	
810-17720-2	-13		0		

GC/MS Semi VOA (Continued)

Prep Batch: 15115 (Continued)

Lab Sample ID LCS 810-15115/3-A	Client Sample ID	Prep Type Total/NA	Matrix Drinking Water		Prep Batch
LLCS 810-15115/2-A	Lab Control Sample	Total/NA	Drinking Water	525.2	

Prep Batch: 15223

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	522	
810-17720-2	Spring	Total/NA	Drinking Water	522	
MBL 810-15223/1-A	Method Blank	Total/NA	Drinking Water	522	
LLCS 810-15223/2-A	Lab Control Sample	Total/NA	Drinking Water	522	

Analysis Batch: 15245

Lab Sample ID 810-17720-2	Client Sample ID Spring	Prep Type Total/NA	Matrix Drinking Water		Prep Batch 15115
MB 810-15115/1-A	Method Blank	Total/NA	Drinking Water	525.2	15115
LCS 810-15115/3-A	Lab Control Sample	Total/NA	Drinking Water	525.2	15115
LLCS 810-15115/2-A	Lab Control Sample	Total/NA	Drinking Water	525.2	15115

Analysis Batch: 15313

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	522	15223
810-17720-2	Spring	Total/NA	Drinking Water	522	15223
MBL 810-15223/1-A	Method Blank	Total/NA	Drinking Water	522	15223
LLCS 810-15223/2-A	Lab Control Sample	Total/NA	Drinking Water	522	15223

GC Semi VOA

Prep Batch: 14862

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water		Prep Batch
810-17720-2	Spring	Total/NA	Drinking Water	504.1	
MB 810-14862/24-A	Method Blank	Total/NA	Drinking Water	504.1	
LCS 810-14862/30-A	Lab Control Sample	Total/NA	Drinking Water	504.1	
LLCS 810-14862/25-A	Lab Control Sample	Total/NA	Drinking Water	504.1	

Analysis Batch: 14919

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water		Prep Batch 14862
810-17720-2	Spring	Total/NA	Drinking Water	504.1	14862
MB 810-14862/24-A	Method Blank	Total/NA	Drinking Water	504.1	14862
LCS 810-14862/30-A	Lab Control Sample	Total/NA	Drinking Water	504.1	14862
LLCS 810-14862/25-A	Lab Control Sample	Total/NA	Drinking Water	504.1	14862

Prep Batch: 14969

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	505	
810-17720-2	Spring	Total/NA	Drinking Water	505	
MB 810-14969/24-A	Method Blank	Total/NA	Drinking Water	505	
LLCS 810-14969/31-A	Lab Control Sample	Total/NA	Drinking Water	505	
LLCS 810-14969/32-A	Lab Control Sample	Total/NA	Drinking Water	505	
810-17720-1 MS	Well B	Total/NA	Drinking Water	505	
810-17720-2 MS	Spring	Total/NA	Drinking Water	505	

Page 63 of 96

Eurofins Eaton South Bend

5 6

10

GC Semi VOA (Continued)

Prep Batch: 14969 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bate
810-17720-2 MSD	Spring	Total/NA	Drinking Water	505	
nalysis Batch: 1499	9				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
310-17720-1	Well B	Total/NA	Drinking Water	505	1496
310-17720-2	Spring	Total/NA	Drinking Water	505	1496
/IB 810-14969/24-A	Method Blank	Total/NA	Drinking Water	505	1496
LCS 810-14969/31-A	Lab Control Sample	Total/NA	Drinking Water	505	1496
LCS 810-14969/32-A	Lab Control Sample	Total/NA	Drinking Water	505	1496
10-17720-1 MS	Well B	Total/NA	Drinking Water	505	149
10-17720-2 MS	Spring	Total/NA	Drinking Water	505	149
10-17720-2 MSD	Spring	Total/NA	Drinking Water	505	149
ep Batch: 15027					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bat
10-17720-1	Well B	Total/NA	Drinking Water	552.2	
10-17720-2	Spring	Total/NA	Drinking Water	552.2	
B 810-15027/1-A	Method Blank	Total/NA	Drinking Water	552.2	
nalysis Batch: 1507	5				
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bat
10-17720-1	Well B	Total/NA	Drinking Water	552.2	150
10-17720-2	Spring	Total/NA	Drinking Water	552.2	150
IB 810-15027/1-A	Method Blank	Total/NA	Drinking Water	552.2	150
nalysis Batch: 1524	7				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
10-17720-1 10-17720-2	Well B Spring	Total/NA Total/NA	Drinking Water Drinking Water	552.2 THAA 552.2 THAA	
	oping	IotainnA	Drinking Water	352.2 THAN	
ep Batch: 15291		D			Dura Dat
ab Sample ID 10-17720-1	Client Sample ID Well B	Total/NA	Matrix Drinking Water	Method 515.3	Prep Bat
IB 810-15291/1-B	Method Blank	Total/NA	Drinking Water	515.3	
LCS 810-15291/2-B	Lab Control Sample	Total/NA	Drinking Water	515.3	
		Iotai/InA	Drinking Water	515.5	
eanup Batch: 1534					
ab Sample ID 10-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	Method Aliquot	Prep Bat 152
IB 810-15291/1-B	Method Blank	Total/NA	Drinking Water	Aliquot	152
LCS 810-15291/2-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	152
	·			, inquot	102
nalysis Batch: 1537					_
ab Sample ID.	Client Sample ID Well B	Total/NA	Matrix	_ Method	Prep Bat 153
			Drinking Water	515.3	
/B 810-15291/1-B LCS 810-15291/2-B	Method Blank Lab Control Sample	Total/NA Total/NA	Drinking Water Drinking Water	515.3 515.3	153 153
rep Batch: 15410	· · · · · · · · · · · · · · · · · · ·				
_ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bat
810-17720-1	Well B	Total/NA	Drinking Water	<u>551,1</u>	гіер вац

4/21/2022

17

GC Semi VOA (Continued)

Prep Batch: 15410 (Continued)

Lab Sample ID 810-17720-2	Client Sample ID Spring	Prep Type Total/NA	Matrix Drinking Water	_ Method 551,1	Prep Batch
MB 810-15410/1-B	Method Blank	Total/NA	Drinking Water	551,1	
LLCS 810-15410/2-B	Lab Control Sample	Total/NA	Drinking Water	551,1	

Cleanup Batch: 15470

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	Aliquot	15410
810-17720-2	Spring	Total/NA	Drinking Water	Aliquot	15410
MB 810-15410/1-B	Method Blank	Total/NA	Drinking Water	Aliquot	15410
LLCS 810-15410/2-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	15410

Analysis Batch: 15474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	551.1	15470
810-17720-2	Spring	Total/NA	Drinking Water	551.1	15470
MB 810-15410/1-B	Method Blank	Total/NA	Drinking Water	551.1	15470
LLCS 810-15410/2-B	Lab Control Sample	Total/NA	Drinking Water	551.1	15470

Prep Batch: 15484

Lab Sample ID 810-17720-2	Client Sample ID	Prep Type Total/NA	Matrix Drinking Water		Prep Batch
MB 810-15484/1-B	Method Blank	Total/NA	Drinking Water	515.3	
LLCS 810-15484/2-B	Lab Control Sample	Total/NA	Drinking Water	515.3	
Cleanup Batch: 1550	6				

Lab Sample ID 810-17720-2	Client Sample ID	Prep Type Total/NA	Matrix Drinking Water	Aliquot	Prep Batch 15484
MB 810-15484/1-B	Method Blank	Total/NA	Drinking Water	Aliquot	15484
LLCS 810-15484/2-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	15484

Analysis Batch: 15555

Lab Sample ID 810-17720-2	Client Sample ID Spring	Prep Type Total/NA	Matrix Drinking Water		Prep Batch 15506
MB 810-15484/1-B	Method Blank	Total/NA	Drinking Water	515.3	15506
LLCS 810-15484/2-B	Lab Control Sample	Total/NA	Drinking Water	515.3	15506

HPLC/IC

Filtration Batch: 14840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Dissolved	Drinking Water	Filtration	
810-17720-2	Spring	Dissolved	Drinking Water	Filtration	
MB 810-14840/8-A	Method Blank	Dissolved	Drinking Water	Filtration	
LCS 810-14840/10-A	Lab Control Sample	Dissolved	Drinking Water	Filtration	
LLCS 810-14840/9-A	Lab Control Sample	Dissolved	Drinking Water	Filtration	
810-17720-1 DU	Well B	Dissolved	Drinking Water	Filtration	
Analysis Batch: 148	91				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Dissolved	Drinking Water	547	14840
810-17720-2	Spring	Dissolved	Drinking Water	547	14840

HPLC/IC (Continued)

Analysis Batch: 14891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 810-14840/8-A	Method Blank	Dissolved	Drinking Water	547	14840
LCS 810-14840/10-A	Lab Control Sample	Dissolved	Drinking Water	547	14840
LLCS 810-14840/9-A	Lab Control Sample	Dissolved	Drinking Water	547	14840
810-17720-1 DU	Well B	Dissolved	Drinking Water	547	14840
Analysis Batch: 149 [,]	12				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	300.0	
810-17720-2	Spring	Total/NA	Drinking Water	300.0	
MB 810-14912/4	Method Blank	Total/NA	Drinking Water	300.0	
LCS 810-14912/5	Lab Control Sample	Total/NA	Drinking Water	300.0	
Prep Batch: 14934					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	549.2	
810-17720-2	Spring	Total/NA	Drinking Water	549.2	
MB 810-14934/1-A	Method Blank	Total/NA	Drinking Water	549.2	
LCS 810-14934/3-A	Lab Control Sample	Total/NA	Drinking Water	549.2	
LLCS 810-14934/2-A	Lab Control Sample	Total/NA	Drinking Water	549.2	
810-17720-1 MS	Well B	Total/NA	Drinking Water	549.2	
Filtration Batch: 149	52				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Dissolved	Drinking Water	Filtration	
810-17720-2	Spring	Dissolved	Drinking Water	Filtration	
MBL 810-14952/1-A	Method Blank	Dissolved	Drinking Water	Filtration	
Analysis Batch: 149	76				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	300.0	
810-17720-2	Spring	Total/NA	Drinking Water	300.0	
MB 810-14976/4	Method Blank	Total/NA	Drinking Water	300.0	
LCS 810-14976/5	Lab Control Sample	Total/NA	Drinking Water	300.0	
810-17720-1 MS	Well B	Total/NA	Drinking Water	300.0	
810-17720-1 MSD	Well B	Total/NA	Drinking Water	300.0	
Analysis Batch: 1498	89				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	317	
810-17720-2	Spring	Total/NA	Drinking Water	317	
MBL 810-14989/10	Method Blank	Total/NA	Drinking Water	317	
MDL 010-14303/10			J		

Analysis Batch: 15067

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Dissolved	Drinking Water	531.2	14952
810-17720-2	Spring	Dissolved	Drinking Water	531.2	14952
MBL 810-14952/1-A	Method Blank	Dissolved	Drinking Water	531.2	14952

17

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

HPLC/IC

Analysis Batch: 15152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	549.2	14934
810-17720-2	Spring	Total/NA	Drinking Water	549.2	14934
MB 810-14934/1-A	Method Blank	Total/NA	Drinking Water	549.2	14934
LCS 810-14934/3-A	Lab Control Sample	Total/NA	Drinking Water	549.2	14934
LLCS 810-14934/2-A	Lab Control Sample	Total/NA	Drinking Water	549.2	14934
810-17720-1 MS	Well B	Total/NA	Drinking Water	549.2	14934

LCMS

Prep Batch: 14933

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	Method 533	Prep Batch
810-17720-2	Spring	Total/NA	Drinking Water	533	
MBL 810-14933/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-14933/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Prep Batch: 14935

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	Method 537.1 DW	Prep Batch
MBL 810-14935/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-14935/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 14964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	331.0	
810-17720-2	Spring	Total/NA	Drinking Water	331.0	
MBL 810-14964/12	Method Blank	Total/NA	Drinking Water	331.0	
LLCS 810-14964/14	Lab Control Sample	Total/NA	Drinking Water	331.0	
810-17720-2 LMS	Spring	Total/NA	Drinking Water	331.0	
810-17720-2 LMSD	Spring	Total/NA	Drinking Water	331.0	
0.0	opinig		Diming Hater	00110	

Analysis Batch: 14981

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	Method 533	Prep Batch 14933
810-17720-2	Spring	Total/NA	Drinking Water	533	14933
MBL 810-14933/1-A	Method Blank	Total/NA	Drinking Water	533	14933
LLCS 810-14933/2-A	Lab Control Sample	Total/NA	Drinking Water	533	14933

Analysis Batch: 15034

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water		Prep Batch 14935
MBL 810-14935/1-A	Method Blank	Total/NA	Drinking Water	537.1	14935
LLCS 810-14935/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	14935

Specialty Organics

Prep Batch: 236037

La	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
81	10-17720-1	Well B	Total/NA	Drinking Water	1613B	
81	10-17720-2	Spring	Total/NA	Drinking Water	1613B	
М	B 410-236037/1-A	Method Blank	Total/NA	Drinking Water	1613B	
LC	CS 410-236037/2-A	Lab Control Sample	Total/NA	Drinking Water	1613B	

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Specialty Organics

Analysis Batch: 236375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	1613B	236037
810-17720-2	Spring	Total/NA	Drinking Water	1613B	236037
MB 410-236037/1-A	Method Blank	Total/NA	Drinking Water	1613B	236037
LCS 410-236037/2-A	Lab Control Sample	Total/NA	Drinking Water	1613B	236037

Metals

Analysis Batch: 15088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	200.8	
810-17720-2	Spring	Total/NA	Drinking Water	200.8	
MB 810-15088/11	Method Blank	Total/NA	Drinking Water	200.8	
LCS 810-15088/15	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-15088/13	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-15088/20	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-15088/22	Lab Control Sample	Total/NA	Drinking Water	200.8	

Prep Batch: 15129

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	
	810-17720-1	Well B	Total/NA	Drinking Water	245.1	
1	810-17720-2	Spring	Total/NA	Drinking Water	245.1	
	MB 810-15129/1-A	Method Blank	Total/NA	Drinking Water	245.1	
	LCS 810-15129/3-A	Lab Control Sample	Total/NA	Drinking Water	245.1	
	LLCS 810-15129/2-A	Lab Control Sample	Total/NA	Drinking Water	245.1	

Analysis Batch: 15167

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	200.7	
810-17720-2	Spring	Total/NA	Drinking Water	200.7	
MB 810-15167/12	Method Blank	Total/NA	Drinking Water	200.7	
MB 810-15167/44	Method Blank	Total/NA	Drinking Water	200.7	
LCS 810-15167/15	Lab Control Sample	Total/NA	Drinking Water	200.7	
LLCS 810-15167/11	Lab Control Sample	Total/NA	Drinking Water	200.7	
LLCS 810-15167/13	Lab Control Sample	Total/NA	Drinking Water	200.7	
810-17720-1 MS	Well B	Total/NA	Drinking Water	200.7	
810-17720-1 MSD	Well B	Total/NA	Drinking Water	200.7	

Analysis Batch: 15170

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water		Prep Batch 15129
810-17720-2	Spring	Total/NA	Drinking Water	245.1	15129
MB 810-15129/1-A	Method Blank	Total/NA	Drinking Water	245.1	15129
LCS 810-15129/3-A	Lab Control Sample	Total/NA	Drinking Water	245.1	15129
LLCS 810-15129/2-A	Lab Control Sample	Total/NA	Drinking Water	245.1	15129

Analysis Batch: 15220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	SM 2340B	
810-17720-2	Spring	Total/NA	Drinking Water	SM 2340B	

General Chemistry

Analysis Batch: 14683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	150.1	
810-17720-2	Spring	Total/NA	Drinking Water	150.1	
LCSSRM 810-14683/4	Lab Control Sample	Total/NA	Drinking Water	150.1	
LCSSRM 810-14683/9	Lab Control Sample	Total/NA	Drinking Water	150.1	
Analysis Batch: 1469	91				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	SM 2120B	
810-17720-2	Spring	Total/NA	Drinking Water	SM 2120B	
MB 810-14691/10	Method Blank	Total/NA	Drinking Water	SM 2120B	
LCSSRM 810-14691/11	Lab Control Sample	Total/NA	Drinking Water	SM 2120B	
- Analysis Batch: 147(01				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	180.1	•
810-17720-2	Spring	Total/NA	Drinking Water	180.1	
MB 810-14701/4	Method Blank	Total/NA	Drinking Water	180.1	
LLCS 810-14701/3	Lab Control Sample	Total/NA	Drinking Water	180.1	
- Analysis Batch: 1470	05				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bate
810-17720-1	Well B	Total/NA	Drinking Water	4500 CI F Amine	
810-17720-2	Spring	Total/NA	Drinking Water	4500 CI F Amine	
MB 810-14705/1	Method Blank	Total/NA	Drinking Water	4500 CI F Amine	
MB 810-14705/4	Method Blank	Total/NA	Drinking Water	4500 CI F Amine	
Analysis Batch: 147	58				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	SM 2150B	
810-17720-2	Spring	Total/NA	Drinking Water	SM 2150B	
MB 810-14758/1	Method Blank	Total/NA	Drinking Water	SM 2150B	
Analysis Batch: 1476	60				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	4500 CI G	
810-17720-2	Spring	Total/NA	Drinking Water	4500 CI G	
MB 810-14760/6	Method Blank	Total/NA	Drinking Water	4500 CI G	
LCS 810-14760/5	Lab Control Sample	Total/NA	Drinking Water	4500 CI G	
LLCS 810-14760/4	Lab Control Sample	Total/NA	Drinking Water	4500 CI G	
810-17720-1 DU	Well B	Total/NA	Drinking Water	4500 CI G	
Analysis Batch: 1486	65				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bato
810-17720-1	Well B	Total/NA	Drinking Water	4500 CIO2 D	
810-17720-2	Spring	Total/NA	Drinking Water	4500 CIO2 D	
MB 810-14865/1	Method Blank	Total/NA	Drinking Water	4500 CIO2 D	
MB 810-14865/6	Method Blank	Total/NA	Drinking Water	4500 CIO2 D	
LCS 810-14865/2	Lab Control Sample	Total/NA	Drinking Water	4500 CIO2 D	

17

General Chemistry

Analysis Batch: 14893

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	353.2	
810-17720-2	Spring	Total/NA	Drinking Water	353.2	
MB 810-14893/19	Method Blank	Total/NA	Drinking Water	353.2	
LCS 810-14893/15	Lab Control Sample	Total/NA	Drinking Water	353.2	
LLCS 810-14893/18	Lab Control Sample	Total/NA	Drinking Water	353.2	
Analysis Batch: 148	54				
Lab Sample ID 810-17720-1	Client Sample ID	Prep Type Total/NA	Matrix	Method	Prep Batch
Lab Sample ID 810-17720-1 810-17720-2	Client Sample ID Well B Spring	Prep Type Total/NA Total/NA	Matrix Drinking Water Drinking Water	Method 353.2 353.2	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	353.2	Prep Batch
810-17720-1 810-17720-2	Well B Spring	Total/NA Total/NA	Drinking Water Drinking Water	353.2 353.2	Prep Batch

Analysis Batch: 14988

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	Method SM 2540D	Prep Batch	
810-17720-2	Spring	Total/NA	Drinking Water	SM 2540D		
MB 810-14988/1	Method Blank	Total/NA	Drinking Water	SM 2540D		
LCS 810-14988/2	Lab Control Sample	Total/NA	Drinking Water	SM 2540D		

Analysis Batch: 15021

Lab Sample ID 810-17720-1	Client Sample ID	Prep Type Total/NA	Matrix Drinking Water	Method SM 2510B	Prep Batch	
810-17720-2	Spring	Total/NA	Drinking Water	SM 2510B		6
LCS 810-15021/4	Lab Control Sample	Total/NA	Drinking Water	SM 2510B		
LLCS 810-15021/3	Lab Control Sample	Total/NA	Drinking Water	SM 2510B	1	7
810-17720-1 DU	Well B	Total/NA	Drinking Water	SM 2510B		

Analysis Batch: 15041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	SM 2540C	
810-17720-2	Spring	Total/NA	Drinking Water	SM 2540C	
MB 810-15041/1	Method Blank	Total/NA	Drinking Water	SM 2540C	
LCS 810-15041/2	Lab Control Sample	Total/NA	Drinking Water	SM 2540C	
810-17720-1 DU	Well B	Total/NA	Drinking Water	SM 2540C	

Prep Batch: 15099

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	Method Distill/CN	Prep Batch
MB 810-15099/30-A	Method Blank	Total/NA	Drinking Water	Distill/CN	
MB 810-15099/4-A	Method Blank	Total/NA	Drinking Water	Distill/CN	
LCS 810-15099/29-A	Lab Control Sample	Total/NA	Drinking Water	Distill/CN	
LLCS 810-15099/3-A	Lab Control Sample	Total/NA	Drinking Water	Distill/CN	

Analysis Batch: 15119

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	SM 4500 F C	
810-17720-2	Spring	Total/NA	Drinking Water	SM 4500 F C	
MB 810-15119/6	Method Blank	Total/NA	Drinking Water	SM 4500 F C	
LCS 810-15119/4	Lab Control Sample	Total/NA	Drinking Water	SM 4500 F C	

General Chemistry (Continued)

Analysis Batch: 15119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
LLCS 810-15119/5	Lab Control Sample	Total/NA	Drinking Water	SM 4500 F C	
nalysis Batch: 151	27				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
810-17720-1	Well B	Total/NA	Drinking Water	Nitrate by calc	
810-17720-2	Spring	Total/NA	Drinking Water	Nitrate by calc	
nalysis Batch: 151	28				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	335.4	1509
MB 810-15099/30-A	Method Blank	Total/NA	Drinking Water	335.4	1509
MB 810-15099/4-A	Method Blank	Total/NA	Drinking Water	335.4	1509
LCS 810-15099/29-A	Lab Control Sample	Total/NA	Drinking Water	335.4	1509
LLCS 810-15099/3-A	Lab Control Sample	Total/NA	Drinking Water	335.4	1509
nalysis Batch: 151	76				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-1	Well B	Total/NA	Drinking Water	SM 2320B	
810-17720-2	Spring	Total/NA	Drinking Water	SM 2320B	
MB 810-15176/9	Method Blank	Total/NA	Drinking Water	SM 2320B	
LCS 810-15176/7	Lab Control Sample	Total/NA	Drinking Water	SM 2320B	
LLCS 810-15176/8	Lab Control Sample	Total/NA	Drinking Water	SM 2320B	
rep Batch: 15406					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
810-17720-2	Spring	Total/NA	Drinking Water	Distill/CN	
MB 810-15406/4-A	Method Blank	Total/NA	Drinking Water	Distill/CN	
LCS 810-15406/2-A	Lab Control Sample	Total/NA	Drinking Water	Distill/CN	
LLCS 810-15406/3-A	Lab Control Sample	Total/NA	Drinking Water	Distill/CN	
810-17720-2 MS	Spring	Total/NA	Drinking Water	Distill/CN	
810-17720-2 MSD	Spring	Total/NA	Drinking Water	Distill/CN	
nalysis Batch: 154	41				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
810-17720-2	Spring	Total/NA	Drinking Water	335.4	1540
MB 810-15406/4-A	Method Blank	Total/NA	Drinking Water	335.4	1540

810-17720-2	Spring	Total/NA	Drinking Water	335.4	15406
MB 810-15406/4-A	Method Blank	Total/NA	Drinking Water	335.4	15406
LCS 810-15406/2-A	Lab Control Sample	Total/NA	Drinking Water	335.4	15406
LLCS 810-15406/3-A	Lab Control Sample	Total/NA	Drinking Water	335.4	15406
810-17720-2 MS	Spring	Total/NA	Drinking Water	335.4	15406
810-17720-2 MSD	Spring	Total/NA	Drinking Water	335.4	15406

Analysis Batch: 235424

Lab Sample ID 810-17720-5	Client Sample ID	Prep Type Total/NA	Matrix Water	Method 5540C - 2011	Prep Batch
810-17720-6	Spring	Total/NA	Water	5540C - 2011	
MB 410-235424/3	Method Blank	Total/NA	Water	5540C - 2011	
LCS 410-235424/5	Lab Control Sample	Total/NA	Water	5540C - 2011	
LCSD 410-235424/6	Lab Control Sample Dup	Total/NA	Water	5540C - 2011	

Job ID: 810-17720-1

17

4/21/2022

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

General Chemistry

Analysis Batch: 236798

Lab Sample ID 810-17720-5	Client Sample ID Well B	Prep Type Total/NA	Matrix Water	Method 420.4	Prep Batch
810-17720-6	Spring	Total/NA	Water	420.4	
MB 410-236798/28	Method Blank	Total/NA	Water	420.4	
LCS 410-236798/26	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-236798/27	Lab Control Sample Dup	Total/NA	Water	420.4	

Rad

Prep Batch: 14789

	Lab Sample ID 810-17720-1 810-17720-2	Client Sample ID Well B Spring	Prep Type Total/NA Total/NA	Matrix Drinking Water Drinking Water	Method RAD Prep RAD Prep	Prep Batch
1	Prep Batch: 15101					
	Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	Method RAD Prep	Prep Batch
	810-17720-2	Spring	Total/NA	Drinking Water	RAD Prep	

Total/NA

Total/NA

Drinking Water

Drinking Water

RAD Prep

RAD Prep

MB 810-15101/1-A Method Blank LCS 810-15101/2-A Lab Control Sample

Prep Batch: 15102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	RAD Prep	
810-17720-2	Spring	Total/NA	Drinking Water	RAD Prep	
MB 810-15102/1-A	Method Blank	Total/NA	Drinking Water	RAD Prep	
LCS 810-15102/2-A	Lab Control Sample	Total/NA	Drinking Water	RAD Prep	

Prep Batch: 15122

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	ARAD Prep	Prep Batch
810-17720-2	Spring	Total/NA	Drinking Water	RAD Prep	
MB 810-15122/1-A	Method Blank	Total/NA	Drinking Water	RAD Prep	
LCS 810-15122/2-A	Lab Control Sample	Total/NA	Drinking Water	RAD Prep	

Biology

Analysis Batch: 14664

Lab Sample ID 810-17720-1	Client Sample ID Well B	Prep Type Total/NA	Matrix Drinking Water	MethodPrep BatchSimPlate
810-17720-2	Spring	Total/NA	Drinking Water	SimPlate
MB 810-14664/5	Method Blank	Total/NA	Drinking Water	SimPlate
POS 810-14664/4	Positive Control	Total/NA	Drinking Water	SimPlate

Analysis Batch: 14764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-17720-1	Well B	Total/NA	Drinking Water	9223B	
810-17720-2	Spring	Total/NA	Drinking Water	9223B	

Job ID: 810-17720-1

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

Lab Sample ID: 810-17720-1 Matrix: Drinking Water

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	14993	03/16/22 20:15	DC	EA SB
Total/NA	Analysis	524.2		1	15123	03/18/22 10:47	DC	EA SB
lotal/NA	Analysis	524.2		1	15073	03/18/22 04:49	DL	EA SB
otal/NA	Prep	522			15223	03/21/22 07:41	MP	EA SB
otal/NA	Analysis	522		1	15313	03/22/22 13:52	TD	EA SB
otal/NA	Prep	525.2			15033	03/17/22 07:44	SC	EA SB
otal/NA	Analysis	525.2		1	15085	03/18/22 13:55	CG	EA SB
otal/NA	Prep	548.1			14823	03/15/22 06:53	СМ	EA SB
otal/NA	Analysis	548.1		1	15042	03/17/22 04:38	TL	EA SB
otal/NA	Prep	504.1			14862	03/15/22 10:15	SC	EA SB
otal/NA	Analysis	504.1		1	14919	03/16/22 05:04	JB	EA SB
lotal/NA	Prep	505			14969	03/16/22 09:55	SC	EA SB
īotal/NA	Analysis	505		1	14999	03/16/22 22:47	JB	EA SB
īotal/NA	Prep	515.3			15291	03/22/22 07:29	AM	EA SB
otal/NA	Cleanup	Aliquot			15348	03/22/22 12:55	AM	EA SB
otal/NA	Analysis	515.3		1	15378	03/22/22 22:48	TL	EA SB
otal/NA	Prep	551,1			15410	03/23/22 10:03	MP	EA SB
otal/NA	Cleanup	Aliquot				03/23/22 15:35		EA SB
otal/NA	Analysis	551.1		1	15474	03/24/22 02:28	JV	EA SB
otal/NA	Prep	552.2			15027	03/17/22 08:11	JH	EA SB
otal/NA	Analysis	552.2		1	15075	03/18/22 21:43	JB	EA SB
otal/NA	Analysis	552.2 THAA		1	15247	03/21/22 10:53	JB	EA SB
otal/NA	Analysis	300.0		1	14976	03/15/22 19:02	JL	EA SB
tal/NA	Analysis	300.0		1	14912	03/15/22 22:10	JL	EA SB
tal/NA	Analysis	317		1	14989	03/17/22 00:02	JL	EA SB
issolved	Filtration	Filtration			14952	03/16/22 10:07	HS	EA SB
issolved	Analysis	531.2		1	15067	03/19/22 05:50	TL	EA SB
issolved	Filtration	Filtration			14840	03/15/22 09:30	HS	EA SB
issolved	Analysis	547		1	14891	03/16/22 00:26	TL	EA SB
otal/NA	Prep	549.2			14934	03/16/22 06:59	MP	EA SB
otal/NA	Analysis	549.2		1	15152	03/18/22 17:28	DL	EA SB
otal/NA	Analysis	331.0		1	14964	03/17/22 18:42	JW	EA SB
otal/NA	Prep	533			14933	03/16/22 06:28	СМ	EA SB
otal/NA	Analysis	533		1	14981	03/17/22 02:24	СМ	EA SB
otal/NA	Prep	537.1 DW			14935	03/16/22 07:55	SS	EA SB
otal/NA	Analysis	537.1		1	15034	03/17/22 19:20	MH	EA SB
otal/NA	Prep	1613B			236037	03/21/22 15:00	CPV9	ELLE
otal/NA	Analysis	1613B		1	236375	03/23/22 00:40	UA2A	ELLE
otal/NA	Analysis	200.7		1	15167	03/18/22 14:31	AC	EA SB
otal/NA	Analysis	200.8		1	15088	03/17/22 15:39	NB	EA SB
otal/NA	Prep	245.1			15129	03/18/22 11:54	AC	EA SB
Total/NA	Analysis	245.1		1		03/18/22 16:02		EA SB
Total/NA	Analysis	SM 2340B		1		03/20/22 17:00		EA SB
				•				

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

17

Lab Sample ID: 810-17720-1 Matrix: Drinking Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
otal/NA	Analysis	150.1		1	14683			EASB
otal/NA	Analysis	180.1		1	14701			EA SB
otal/NA	Prep	Distill/CN		4		03/18/22 06:45		EA SB
otal/NA	Analysis	335.4		1		03/18/22 11:11		EASB
otal/NA	Analysis	353.2		1		03/15/22 10:12		EASB
otal/NA	Analysis	353.2		1		03/15/22 14:22		EA SB
īotal/NA	Analysis	4500 CI F Amine		1		03/11/22 16:31		EA SB
otal/NA	Analysis	4500 CI G		1	14760	03/11/22 18:17	KH	EA SB
otal/NA	Analysis	4500 CIO2 D		1	14865	03/10/22 12:10	KH	EA SB
otal/NA	Analysis	Nitrate by calc		1	15127	03/18/22 11:24	KH	EA SB
otal/NA	Analysis	SM 2120B		1	14691	03/11/22 15:23	JA	EA SB
otal/NA	Analysis	SM 2150B		1	14758	03/11/22 14:58	JA	EA SB
otal/NA	Analysis	SM 2320B		1	15176	03/18/22 19:49	КН	EA SB
otal/NA	Analysis	SM 2510B		1	15021	03/16/22 19:50	AC	EA SB
otal/NA	Analysis	SM 2540C		1	15041	03/17/22 10:25	JA	EA SB
otal/NA	Analysis	SM 2540D		1	14988	03/16/22 15:46	JA	EA SB
otal/NA	Analysis	SM 4500 F C		1	15119	03/18/22 08:49	КН	EA SB
otal/NA	Prep	RAD Prep			15122	03/18/22 10:21	SS	EA SB
otal/NA	Analysis	7110B		1	16607		SS	EA SB
						04/08/22 08:36		
						04/08/22 14:36		
tal/NA	Analysis	7500 Ra D		1		04/21/22 16:02		EA SB
otal/NA	Prep	RAD Prep		4		03/18/22 07:56		EA SB
otal/NA	Analysis	SM7500 Ra B		1	15877 (Start)	03/29/22 09:47	SS	EA SB
						03/29/22 10:47		
otal/NA	Prep	RAD Prep			15101	03/18/22 07:52	SS	EA SB
īotal/NA	Analysis	SM7500 Ra D		1	17228		00	EA SB
					(Start)			
						04/14/22 14:06		
otal/NA	Prep	RAD Prep		4		03/11/22 12:43		EA SB
otal/NA	Analysis	SM7500_Rn_B		1	15451 (Start)	03/12/22 05:29	00	EA SB
					· · ·	03/12/22 05:29		
otal/NA	Analysis	9223B		1	14764		HW	EA SB
	-				(Start)	03/14/22 15:26		
					(End)	03/16/22 09:00		
Total/NA	Analysis	SimPlate		1	14664	00/14/02 14 11	SF	EA SB
					. ,	03/11/22 11:44 03/14/22 09:17		
					(EIIU)	03/14/22 09.17		

Dilution

Batch

Prepared

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

Batch

Batch

Lab Sample ID: 810-17720-2 Matrix: Drinking Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	14993	03/16/22 19:52	DC	EA SB
Total/NA	Analysis	524.2		1	15123	03/18/22 10:47	DC	EA SB
Total/NA	Analysis	524.2		1	15073	03/18/22 05:13	DL	EA SB
Total/NA	Prep	522			15223	03/21/22 07:41	MP	EA SB
Total/NA	Analysis	522		1	15313	03/22/22 14:16	TD	EA SB
Total/NA	Prep	525.2			15115	03/18/22 07:44	SC	EA SB
Total/NA	Analysis	525.2		1	15245	03/21/22 21:50	TD	EA SB
Total/NA	Prep	548.1			14823	03/15/22 06:53	СМ	EA SB
Total/NA	Analysis	548.1		1	15042	03/17/22 04:53	TL	EA SE
Total/NA	Prep	504.1			14862	03/15/22 10:15	SC	EA SE
Total/NA	Analysis	504.1		1	14919	03/16/22 05:30	JB	EA SE
Total/NA	Prep	505			14969	03/16/22 09:55	SC	EA SE
Total/NA	Analysis	505		1	14999	03/16/22 23:14	JB	EA SE
Total/NA	Prep	515.3			15484	03/24/22 08:28	AM	EA SE
Total/NA	Cleanup	Aliquot			15506	03/24/22 11:47	AM	EA SB
Total/NA	Analysis	515.3		1	15555	03/25/22 13:21	TL	EA SE
Total/NA	Prep	551,1			15410	03/23/22 10:03	MP	EA SE
Total/NA	Cleanup	Aliquot			15470	03/23/22 15:35	MP	EA SE
Total/NA	Analysis	551.1		1	15474	03/24/22 03:06	JV	EA SE
Total/NA	Prep	552.2			15027	03/17/22 08:11	JH	EA SE
Total/NA	Analysis	552.2		1	15075	03/18/22 22:19	JB	EA SE
Total/NA	Analysis	552.2 THAA		1	15247	03/21/22 10:53	JB	EA SB
Total/NA	Analysis	300.0		1	14976	03/15/22 20:03	JL	EA SE
Total/NA	Analysis	300.0		1	14912	03/15/22 22:41	JL	EA SE
Total/NA	Analysis	317		1	14989	03/17/22 00:30	JL	EA SE
Dissolved	Filtration	Filtration			14952	03/16/22 10:07	HS	EA SE
Dissolved	Analysis	531.2		1	15067	03/19/22 06:21	TL	EA SE
Dissolved	Filtration	Filtration			14840	03/15/22 09:30	HS	EA SI
Dissolved	Analysis	547		1	14891	03/16/22 01:55	TL	EA SI
Total/NA	Prep	549.2			14934	03/16/22 06:59	MP	EA SI
Total/NA	Analysis	549.2		1	15152	03/18/22 17:46	DL	EA SI
Total/NA	Analysis	331.0		1	14964	03/17/22 18:57	JW	EA SE
Total/NA	Prep	533			14933	03/16/22 06:28	СМ	EA SI
Total/NA	Analysis	533		1	14981	03/17/22 02:37	СМ	EA SE
Total/NA	Prep	1613B			236037	03/21/22 15:00	CPV9	ELLE
Total/NA	Analysis	1613B		1	236375	03/23/22 01:29	UA2A	ELLE
Total/NA	Analysis	200.7		1	15167	03/18/22 14:38	AC	EA SE
Total/NA	Analysis	200.8		1	15088	03/17/22 16:33	NB	EA SE
Total/NA	Prep	245.1			15129	03/18/22 11:54	AC	EA SE
Total/NA	Analysis	245.1		1		03/18/22 16:05		EA SE
Total/NA	Analysis	SM 2340B		1	15220	03/20/22 17:00	AC	EA SE
Total/NA	Analysis	150.1		1		03/11/22 14:31		EA SE
	•	180.1		1		03/11/22 16:04		EASB
Total/NA	Analysis	100.1		I	14701	03/11/22 10.04	JA	EN 2B

Eurofins Eaton South Bend

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

11 12

Lab Sample ID: 810-17720-2 Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			15406			EASB
Total/NA	Analysis	335.4		1	15441	03/23/22 13:12	КН	EA SB
Total/NA	Analysis	353.2		1	14893	03/15/22 10:11	КН	EA SB
Total/NA	Analysis	353.2		1	14894	03/15/22 14:20	КН	EA SB
Total/NA	Analysis	4500 CI F Amine		1	14705	03/11/22 16:28	JA	EA SB
Total/NA	Analysis	4500 CI G		1	14760	03/11/22 18:17	КН	EA SB
Total/NA	Analysis	4500 CIO2 D		1	14865	03/10/22 14:00	КН	EA SB
Total/NA	Analysis	Nitrate by calc		1	15127	03/18/22 11:24	КН	EA SB
Total/NA	Analysis	SM 2120B		1	14691	03/11/22 15:22	JA	EA SB
Total/NA	Analysis	SM 2150B		1	14758	03/11/22 14:53	JA	EA SB
Total/NA	Analysis	SM 2320B		1	15176	03/18/22 20:05	KH	EA SB
Total/NA	Analysis	SM 2510B		1	15021	03/16/22 19:54	AC	EA SB
Total/NA	Analysis	SM 2540C		1	15041	03/17/22 10:37	JA	EA SB
Total/NA	Analysis	SM 2540D		1	14988	03/16/22 15:40	JA	EA SB
Total/NA	Analysis	SM 4500 F C		1	15119	03/18/22 07:33	кн	EA SB
Total/NA	Prep	RAD Prep			15122	03/18/22 10:21	SS	EA SB
Total/NA	Analysis	7110B		1	16607		SS	EA SB
					. ,	04/08/22 08:36		
						04/08/22 14:36		
Total/NA	Analysis	7500 Ra D		1		04/21/22 16:02		EA SB
Γotal/NA Γotal/NA	Prep Analysis	RAD Prep SM7500 Ra B		1	15102 15877	03/18/22 07:56	SS SS	EA SB EA SB
	Analysis	31017 300 Ra B		I		03/29/22 09:47	33	LA 3D
						03/29/22 10:47		
Total/NA	Prep	RAD Prep			15101	03/18/22 07:52	SS	EA SB
Total/NA	Analysis	SM7500 Ra D		1	17228		00	EA SB
						04/14/22 11:06		
						04/14/22 14:06		
Total/NA Total/NA	Prep Analysis	RAD Prep SM7500_Rn_B		1	14789 15451	03/11/22 12:43	00	EA SB EA SB
	Analysis	SM/300_RII_B		I		03/12/22 06:44	00	LAGD
						03/12/22 06:44		
Total/NA	Analysis	9223B		1	14764		HW	EA SB
						03/14/22 15:26		
						03/16/22 09:00		
Total/NA	Analysis	SimPlate		1	14664	00/44/00 44 44	SF	EA SB
						03/11/22 11:44		
					(End)	03/14/22 09:17		

Client Sample ID: Well B Date Collected: 03/10/22 12:10 Date Received: 03/11/22 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	420.4		1	236798	03/23/22 11:42	CBM8	ELLE
Total/NA	Analysis	5540C - 2011		1	235424	03/19/22 03:58	UDS7	ELLE

Client Sample ID: Spring Date Collected: 03/10/22 14:00 Date Received: 03/11/22 09:15

	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	420.4		1	236798	03/23/22 10:18	CBM8	ELLE	
Total/NA	Analysis	5540C - 2011		1	235424	03/19/22 03:58	UDS7	ELLE	

Laboratory References:

E CEI = E CEI, 730 SE Maynard Road, Cary, NC 27511

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Lab Sample ID: 810-17720-5 Matrix: Water

Lab Sample ID: 810-17720-6

trix: Water

Matrix: Water

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

	Eurofins Eaton Sou		accreditation/certification below.							
Authority		rogram	Identification Number Expiration Date							
West Virginia (DW)	S	tate	9927 C 12-31-22							
	nalytes are included in this rep s not offer certification.	oort, but the laboratory is not c	ertified by the governing authority. This list may include analytes for which							
Analysis Method		Matrix	Analyte							
150.1		Drinking Water	pH							
180.1		Drinking Water	Turbidity							
200.7		Drinking Water	Calcium							
200.7		Drinking Water	Iron							
200.7		Drinking Water	Magnesium							
200.8		Drinking Water	Manganese							
200.8		Drinking Water	Silver							
200.8		Drinking Water	Zinc							
300.0		Drinking Water	Bromide							
300.0		Drinking Water	Chlorate							
300.0		Drinking Water	Chloride							
300.0		Drinking Water	Sulfate							
331.0		Drinking Water	Perchlorate							
353.2		Drinking Water	Nitrate Nitrite as N							
4500 CI F Amine	e	Drinking Water	Chloramines, Total							
4500 CI F Amine		Drinking Water	Dichloramine							
4500 CI F Amine		Drinking Water	Monochloramine							
4500 CI F Amine		Drinking Water	Nitrogen trichloride							
4500 CI G		Drinking Water	Free Chlorine							
4500 CIO2 D		Drinking Water	Chlorine dioxide, Residual							
505	505	Drinking Water	Total PCBs as DCB (Qualitative)							
522	522	Drinking Water	1,4-Dioxane							
524.2		Drinking Water	1,1,1,2-Tetrachloroethane							
524.2		Drinking Water	1,1,2,2-Tetrachloroethane							
524.2		Drinking Water	1,1-Dichloroethane							
524.2		Drinking Water	1,1-Dichloropropene							
524.2		Drinking Water	1,2,3-Trichlorobenzene							
524.2		Drinking Water	1,2,3-Trichloropropane							
524.2		Drinking Water	1,2,4-Trimethylbenzene							
524.2		Drinking Water	1,2-Dibromo-3-Chloropropane							
524.2		Drinking Water	1,2-Dibromoethane (EDB)							
524.2		Drinking Water	1,3,5-Trimethylbenzene							
524.2		Drinking Water	1,3-Dichlorobenzene							
524.2		Drinking Water	1,3-Dichloropropane							
524.2		Drinking Water	2,2-Dichloropropane							
524.2		Drinking Water	2-Chlorotoluene							
524.2		Drinking Water	4-Chlorotoluene							
524.2		Drinking Water	4-Isopropyltoluene							
524.2		Drinking Water	Bromobenzene							
524.2		Drinking Water	Bromochloromethane							
524.2		Drinking Water	Bromomethane							
524.2		Drinking Water	Chloroethane							
524.2		Drinking Water	Chloromethane							
524.2		Drinking Water	cis-1,3-Dichloropropylene							
524.2		Drinking Water	Dibromomethane							

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Program **Identification Number** Expiration Date The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Prep Method Analysis Method Matrix Analyte 524.2 **Drinking Water** Dichlorodifluoromethane 524.2 **Drinking Water** Hexachlorobutadiene 524.2 **Drinking Water** Isopropylbenzene 524.2 **Drinking Water** Methyl-tert-butyl Ether (MTBE) 524.2 **Drinking Water** m-Xylene & p-Xylene 524.2 **Drinking Water** Naphthalene 524.2 **Drinking Water** n-Butylbenzene 524.2 **Drinking Water** N-Propylbenzene 524.2 **Drinking Water** o-Xylene 524.2 **Drinking Water** sec-Butylbenzene 524.2 **Drinking Water** tert-Butylbenzene 524.2 **Drinking Water** trans-1,3-Dichloropropylene 524.2 **Drinking Water** Trichlorofluoromethane 551.1 551,1 **Drinking Water** 1,1,1-Trichloro-2-propanone 551.1 551,1 **Drinking Water** 1,1-Dichloro-2-propanone **Drinking Water** 551.1 551,1 Bromochloroacetonitrile 551.1 551,1 **Drinking Water** Chloropicrin 551.1 551.1 **Drinking Water** Dibromoacetonitrile 551 1 551,1 **Drinking Water** Dichloroacetonitrile 551.1 551,1 **Drinking Water** Trichloroacetonitrile 7500 Ra D **Drinking Water** Combined Radium 226 + 228 9223B **Drinking Water** Coliform, Total 9223B **Drinking Water** Escherichia coli SimPlate **Drinking Water** Heterotrophic Plate Count SM 2120B Drinking Water Color, Apparent SM 2150B **Drinking Water** Odor SM 2320B **Drinking Water** Alkalinity, Bicarbonate SM 2320B **Drinking Water** Alkalinity, Total SM 2340B **Drinking Water** Calcium hardness as calcium carbonate SM 2340B **Drinking Water** Hardness as calcium carbonate SM 2340B **Drinking Water** Magnesium hardness as calcium carbonate SM 2510B **Drinking Water** Specific Conductance SM 2540C **Drinking Water** Total Dissolved Solids SM 2540D **Drinking Water Total Suspended Solids** Radon 222 SM7500_Rn_B RAD Prep **Drinking Water**

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date		
A2LA	Dept. of Defense ELAP	1.01			
A2LA	ISO/IEC 17025	0001.01	11-30-22		
Alaska	State	PA00009	06-30-22		
Alaska (UST)	State	17-027	02-28-23		
Arizona	State	AZ0780	03-12-23		
Arkansas DEQ	State	88-0660	08-10-22		

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton South Bend

Job ID: 810-17720-1

Accreditation/Certification Summary

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water Job ID: 810-17720-1

12

17

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
California	State	2792	02-02-22 *	
olorado	State	PA00009	06-30-22	
onnecticut	State	PH-0746	06-30-23	
Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23	
laware (DW)	State	N/A	01-31-23	
rida	NELAP	E87997	06-30-22	
orgia (DW)	State	C048	01-31-22 *	
waii	State	N/A	01-31-23	
nois	NELAP	200027	01-31-23	
a	State	361	03-02-22 *	
nsas	NELAP	E-10151	10-31-22	
ntucky (DW)	State	KY90088	12-31-22	
ntucky (UST)	State	1.01	11-30-22	
entucky (WW)	State	KY90088	01-01-23	
uisiana	NELAP	02055	06-30-22	
ine	State	2019012	03-12-23	
ryland	State	100	06-30-22	
ssachusetts	State	M-PA009	06-30-22	
higan	State	9930	01-31-23	
nesota	NELAP	042-999-487	12-31-22	
souri	State	450	01-31-25	
itana (DW)	State	0098	01-01-23	
ntana (UST)	State	<cert no.=""></cert>	02-01-23	
aska	State	NE-OS-32-17	01-31-23	
Hampshire	NELAP	2730	01-10-23	
Jersey	NELAP	PA011	06-30-22	
/ York	NELAP	10670	03-30-22	
h Carolina (DW)	State	42705	07-31-22	
th Carolina (WW/SW)	State	521	12-31-22	
th Dakota	State	R-205	01-31-23	
ahoma	NELAP	R-205	08-31-22	
gon	NELAP	PA200001	09-11-22	
A	Canada	1978	09-16-24	
nsylvania	NELAP	36-00037	01-31-23	
ode Island	State	LAO00338	12-30-22	
th Carolina	State	89002	01-31-23	
nessee	State	02838	01-31-23	
as	NELAP	T104704194-21-40	08-31-22	
DA	US Federal Programs	P330-19-00197	07-03-22	
nont	State	VT - 36037	10-28-22	
ginia	NELAP	460182	06-14-22	
shington	State	400182 C457	06-14-22 04-12-22	
shington st Virginia (DW)		9906 C		
• • •	State State	9908 C 055	12-31-22 04-12-22	
est Virginia DEP /oming	State	8TMS-L	04-12-22 01-31-23	
.				
ning (UST)	A2LA	1.01	11-30-22	

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

lethod	Method Description	Protocol	Laboratory		
24.2	Total Trihalomethanes	EPA-DW	EASB		
24.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EASB		
2	1,4 Dioxane (GC/MS SIM)	EPA	EASB		
5.2	Semivolatile Organic Compounds (GC/MS)	EPA	EASB		
8.1	Endothall (GC/MS)	EPA	EASB		
4.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	EA SB		
5	Organochlorine Pesticides/PCBs (GC)	EPA	EASB		
5.3	Herbicides (GC)	EPA	EASB		
1.1	Chlorinated Disinfection Byproducts and Solvents (GC)	EPA	EASB		
2.2	Haloacetic Acids (HAAs) (GC)	EPA	EASB		
2.2 THAA	Total Haloacetic Acids (GC)	EPA	EASB		
0.0	Anions, Ion Chromatography	EPA	EA SB		
7	Bromate, Ion Chromatography	EPA	EASB		
1.2	Carbamate Pesticides (HPLC)	EPA	EASB		
7	Glyphosate (DAI HPLC)	EPA	EASB		
9.2	Diquat and Paraquat (HPLC)	EPA	EA SB		
1.0	Perchlorate (LC/MS/MS)	EPA	EA SB		
3	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EASB		
7.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EASB		
13B	Tetra Chlorinated Dioxin in Drinking Water	EPA	ELLE		
0.7	Metals (ICP)	EPA	EASB		
0.8	Metals (ICP/MS)	EPA	EA SB		
5.1	Mercury (CVAA)	EPA	EA SB		
1 2340B	Total Hardness (as CaCO3) by calculation	SM	EA SB		
D.1	pH (Electrometric)	MCAWW	EA SB		
D.1	Turbidity, Nephelometric	MCAWW	EA SB		
5.4	Cyanide, Total	MCAWW	EA SB		
3.2	Nitrogen, Nitrate-Nitrite	MCAWW	EASB		
0.4	Phenolics, Total Recoverable	MCAWW	ELLE		
00 CI F Amine	Chloramines	SM	EA SB		
00 CI G	Chlorine, Free	SM	EA SB		
00 CIO2 D	Chlorine Dioxide	SM	EA SB		
40C - 2011	Methlyene Blue Active Substant (MBAS)	SM	ELLE		
rate by calc	Nitrogen, Nitrate-Nitrite	SM	EA SB		
I 2120B	Color, Colorimetric	SM	EA SB		
1 2150B	Odor	SM	EA SB		
1 2320B	Alkalinity	SM	EA SB		
1 2510B	Conductivity, Specific Conductance	SM	EA SB		
1 2540C	Solids, Total Dissolved (TDS)	SM	EA SB		
2540D	Solids, Total Suspended (TSS)	SM	EA SB		
1 4500 F C	Fluoride	SM	EASB		
10B	Gross Alpha and Gross Beta Radioactivity	SM	EASB		
00 Ra D	Radium 226 Radium 228 Combined	SM	EASB		
17500 Ra B	Radium-226	SM	EASB		
17500 Ra D	Radium-228	SM	EASB		
17500_Rn_B	Radon	SM	EASB		
23B	Coliforms, Total, and E.Coli (Presence/Absence)	SM	EASB		
nPlate	Heterotrophic Plate Count (HPC)	IDEXX	EASB		
bcontract	Asbestos		EA SB E CEI		
		None			
13B	Separatory Funnel (Liquid-Liquid) Extraction	EPA	ELLE		
5.1 1.1	Preparation, Mercury	EPA	EASB		
4 1	Microextraction	EPA-DW	EA SB		

Eurofins Eaton South Bend

Method Summary

Client: Triad Engineering, Inc. Project/Site: WV Drinking Water

lethod	Method Description	Protocol	Laboratory
15.3	Extraction of Chlorinated Acids	EPA-DW	EASB
22	Solid-Phase Extraction (SPE)	EPA	EASB
25.2	Extraction of Semivolatile Compounds	EPA	EA SB
33	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB
37.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB
48.1	Extraction of Endothall	EPA-DW	EA SB
49.2	Extraction of Diquat and Paraquat	EPA	EA SB
51,1	Extraction of Chlorinated Disinfection Byproducts and Chlorinated Solvents	EPA	EA SB
52.2	Microextraction	EPA	EA SB
liquot	Preparation, Extract aliquot	None	EA SB
istill/CN	Distillation, Cyanide	None	EA SB
iltration	Sample Filtration	None	EA SB
AD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements. IDEXX = IDEXX Laboratories

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

E CEI = E CEI, 730 SE Maynard Road, Cary, NC 27511

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-17720-1	Well B	Drinking Water	03/10/22 12:10	03/11/22 09:15
810-17720-2	Spring	Drinking Water	03/10/22 14:00	03/11/22 09:15
810-17720-5	Well B	Water	03/10/22 12:10	03/11/22 09:15
810-17720-6	Spring	Water	03/10/22 14:00	03/11/22 09:15

South Bend, IN

V



Chain of Custody Record

W22010;

15



: eurofins

Environment Testing American

Client Information (Sub Contract Lab)				Lab F Mat	PM attheis, Joe						C	Carrier Tracking No(s)					COC No: 810-2417.1	
Client Contact:	Phone			E-Ma		Mau	tofined	t com				tate of t Aaryla					Page Page 1 of 1	
Company.						heis@eurofinset.com Maryland reditations Required (See note)										Job #		
urofins CEI Inc						State - West Virginia (DW) 810-17720-1												
ddress:	Due Date Request	ed:											1	Preservation Codes			des:	
30 SE Maynard Road,	3/25/2022	_		-		-	_	P	Analy	sis F	Redr	uested					A - HCL	M - Hexane
Sity: Cary	TAT Requested (da	ays):						1									B - NaOH	N - None
State. Zip																	C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
NC. 27511					1.5												E - NaHSO4	Q - Na2SO3
Phone	PO#				110												F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
					6												H - Ascorbic Acid	T - TSP Dodecahy
imai	WO#				Sample (Yes or No ISD (Yes or No)				1.1								I - Ice	U - Acetone
					No)				1								J - DI Water K - EDTA	V - MCAA W - pH 4-5
Project Name: WV Drinking Water	Project # 81002211				S or	8										alne	L - EDA	Z - other (specify)
Ste	SSOW#	_			원홍	oest										containe	Other	
					SD am	As										olc	outer	
	-		DA DE DAT	18422.44		(Asbestos)/ Asbestos			4									
			Sample	Matrix (w-water,	Tiltered m MS/h	best										Ē		
		Comple	Туре	S-solid,	d Fi	(As										Ň		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=grab)	Orwasteroit, ET=Tissue, A=Air)	0 5	SUB										Total Number	Special	structions/Note
bumple ruentinoution - orient ib (Eub ib)	- Outpie Dute			ation Code:		0,			1000	1000	1	12 10	1	Marriel Inc.		5	Special I	Istructions/Note
		12:10	Treaction		m								-		-	n	11.0	
Well B (810-17720-1)	3/10/22	Eastern		prinking Wat		X										1	3.2	
Spring (810-17720-2)	3/10/22	14:00		prinking Wat		x										1	2.	
	190,140 MM	Eastern		3 1.5-1		-		-	-		-	-00	05		-		61.	1
											ept	Samp						
Nanca a wood mut all	1 de la sura		1.57	-				1.2	X .	PG	~+		10					
please proceed out of	iola rime	55 3	12-2	×			a core	fins	CEL		-	10	P		-			
							84	10.1	21	16		1						
								10	5	14		-	-					
							p	1			-	-	-					
	· · · · · · · · · · · · · · · · · · ·	10.000		1.000			1	111	1 5	DIP								
							-	-	-		-	-	-		-			
				· · · · · · · · · · · · · · · · · · ·							_	_						
	1			1				1										
and a base of the second se					11		_	-	-		_	_	-					
Note: Since laboratory accreditations are subject to change, Eurofins Eaton surrently maintain accreditation in the State of Origin listed above for analys	Analytical, LLC places the s/tests/matrix being analyz	ownership of n	helhod, analyt as must be shi	e & accreditation	n complia	Eaton	Analytic	al LLC	act labora	oratories	5. This	s sample	shipm	ent is for	warded u	inder c	chain-of-custody. If	the laboratory does n
Eurofins Eaton Analytical, LLC attention immediately. If all requested accre	ditations are current to date	return the sig	ned Chain of	Custody attestin	g to said	complic	cance to	Eurofin	ns Eato	n Analyt	tical, L	LC.	na wiii	no broain	ou. Mily	chang	es to accreditation	status should be broc
Possible Hazard Identification		_			Ica	mala	Dieno	cal ()	foo	maub	0.000	COCCO	lifes	malar		aina	d longer than 1	month
										may D	7							
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank; 2							tum T					sposal	By La	b	- /	Archiv	ve For	Months
Deriverable Requested. 1, II, III, IV, Other (specify)	Primary Delivera	able Rank:	2		Spe	ecial II	nstruct	ions/C	JC RE	equirer	nents	5.						
Empty Kit Relinquished by:		Date		1.1.1.1.1.1.1.1	Time:		-		_			Me	hod of	Shipment	0			
Relinquished by:	Date/Time:	121	11.1.1	Company +		Receiv	/ed by:	_	-	-		-1	-	Date/Tin	ne			Company
Steppen	Date/Time: 3-15-	22 16	200	EEA										a series e fit				Sector 1
Relinquished by:	Date/Time:	14		Company		Receiv	ved by		-					Date/Time:				Company
	Date/Time: Company			Received by						Date/Time						10		
Relinquished by:	Date/Time:			Company		Receiv	ved by							Date/Tin	ne			Company

4/21/2022



March 25, 2022

Eurofins Eaton Analytical 110 S. Hill Street South Bend, IN 46617

CLIENT PROJECT:	WV Drinking Water, 81002211
LAB CODE:	W220101

CEI

Dear Customer:

Enclosed are asbestos analysis results for TEM drinking water samples received at our laboratory on March 16, 2022. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per the US EPA 100.2 Method.

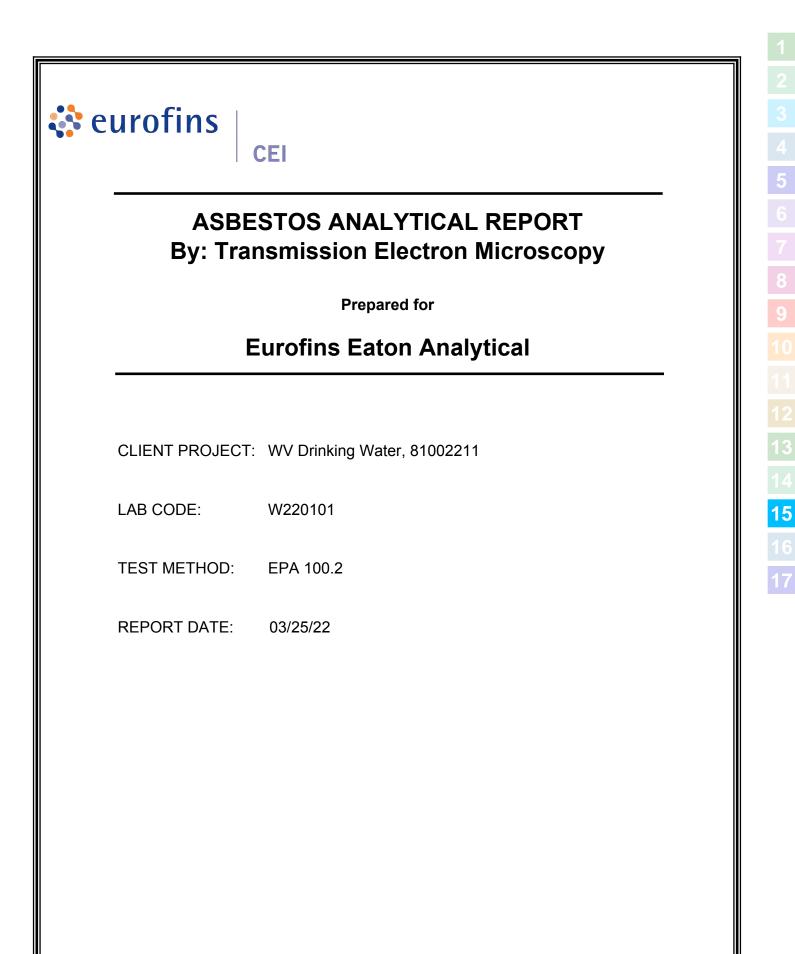
The current EPA regulatory limit for asbestos in drinking water is 7 million fibers per liter (MFL, > 10 μ m in length). The analytical sensitivity for the EPA 100.2 method is 0.2 MFL.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Mansas De

Tianbao Bai, Ph.D., CIH Laboratory Director



730 SE Maynard Road • Cary, NC 27511 • 919.481.1413



ASBESTOS IN DRINKING WATER ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

CEI

Client: Eurofins Eaton Analytical 110 S. Hill Street South Bend, IN 46617

Time Collected:	12:10 PM	Date Co
Time Received:	10:10 AM	Date Re
Time Filtered:	3:00 PM	Date Fil
Time Analyzed:	7:57 AM	Date An
Avg Grid Opening Size:	.01 mm ²	Date Re

Lab Code: Date Collected: Date Received: Date Filtered: Date Analyzed: Date Reported: W220101

03-10-22

03-16-22

03-23-22

03-25-22

03-25-22

Project: WV Drinking Water, 81002211

Client	Sample		Effective	# Of Grid	Total Area of	Analytical				Confider	nce Limit
ID Lab ID	Volume Filtered	Dilution Factor	Filter Area (mm ²)	Openings Analyzed	Filter Examined	Sensitivity (MFL)	Asbestos Type	Со >10 µm	oncentrati (MFL)	on Lower	Upper
Well B(810 -17720-1) W2540 Sample ozor	100 nated prior	1 to analysis	1060 s due to lab	6 receipt tim	0.06 e exceeding 4	0.177 8 hr method	None Detected hold time.	0	<.18	0.0	<0.65
Spring (810 -17720-2) W2541	100	2	1060	11	0.11	0.193	None Detected	0	<.19	0.0	<0.71



LEGEND: MFL = million fibers per liter , > 10 um in length NSD = no asbestos structures detected ml = milliliter

CEI

METHOD: EPA 100.2

ANALYTICAL SENSITIVITY: 0.2 MFL

MAXIMUM CONTAMINANT LEVEL: 7 MFL

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of customer submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the customer. Samples were received in acceptable condition unless otherwise noted.

CHRY = chrysotile

um = micrometer

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

Sample bottle was not provided by Eurofins CEI.

For the current states of certification please refer to the website: www.EurofinsUS.com/CEI

Brumilda Gjoka Brunilda Gjoka ANALYST: **APPROVED BY:** Tianbao Bai, Ph.D., CIH

Laboratory Director

CROC = crocidolite

mm = millimeter

TestAmerica Pittsburgh 301 Alpha Drive									Ha		ourg	TestAme	erica
Pittsburgh, PA 15238 phone 412.963.7058 fax 412.963.2470				(Chain	of Cust	ody R	lecord		#26	5/	THE LEADER IN ENVIRONM	
Client Contact	Project Ma	anager:				ite Contact: /						COC No:	
Company Triad highering	Tel/Fax:			_	1	ab Contact:	ninoll	certia	. √ Carrie	r:		of CO	Cs
Address 1075 D Shefmon 21 VR			urnaround					918	down			Job No.	
City/State/Zip Hagerstown, MD 21740	Calenda	r(C) or We	ork Days (W	/)		10				101			
Phone 301 - 797 - 6460	-	AT if different	from Below									SDG No.	
		2	2 weeks									SDG NO.	
Bite: TUIKen Run			week										
PO# Kun			2 days			810-	17720 Ch	ain of Cust	ody				1
5 m			l day			1		1 1 1	1.1				
	Sample	Sample	Sample		# of								
Sample Identification	Date	Time	Туре	Matrix								Sample Specific	Notes:
Vale II B	13/10/22	12:10	6	W			Padereri Harazet Nev	au lez' (de regio de)		NAMES I. Standard in Const		DOC. DOC	- DOC
	1 1 1			W								Dec or	10
pring	710/22	Mipo	6	00		+++				+ + + +		0'GOC	
522 pH adjusted upon N 549 pH adjusted upon N	eccip	- / 5	53-14	-22									
<u> </u>								++++		┼┼┼┤			
Client Pro	Wided San	Die Cont	albor			+++		+++	++-	++++			
			411121										
recomption light to be 2- HOL 2- HOLA 4 HERCE TO 1				1		┫╌┼╌┼╌		+++	++-	+ + + +	-+-+-+-		
reservation Used: 1= lce, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaC possible Hazard Identification	on; o= Uther			_		Sample Di		fee may h	0 255055	ed if sample	s are retained	l longer than 1 month)	
Non-Hazard Flammable Skin Irritant	Poison B		Unknown			- Potu	m To Clin	-		Pulah	Arobico	For Months	
ecial Instructions/QC Requirements & Comments:	T OISON D		UNKNOWN	_	24.1	Neid			Disposa	In Lau	a II A		-4 1
Spring does not have a	le p	respi	untiv-	15	okt	o ada	l pres	servat	rve	rad	ust if	recessary se	3142
linguished by: Evila Mun	Company:	Trial	5	Date/Tin 3/10/2	ne:	Received by	ul =	sh	2	Company:	4 3	Date/Fime:	45
linguished by:	Company:		1	Date/Tin	ne:	Received by	:	-		Company:	1	Dete/Time:-	
R. WSTA	ETI	4	3/1	122	180	o m	·FK	DA	X				
linquished by:	Company:	1	70	Date/Tin		Received by			-	Company:		Date/Time:	1
						85	20	200	~	Company: EEA		3-11-22 09	15
	1			1			~					1	

	eurofins		*1	Kit Order for Triad Engineering, Inc.			Page 1 of
		aton Analytical	Rachelle	e Arada is your Eurofins Eaton Analytical, LLC Service N	lanager		
	750 Royal Oaks Drive	Suito 100		······································		ted Date & Time: 3/8/2022	2:44.42044
	Monrovia, California 9			and the second se		lied Date & Time. 5/6/2022	3.11.43PM
	(626) 386-1100 FAX (4	866) 988-3757	Note:	Sampler Please return this paper with your sar	nples	Llow	abure
				Client ID:TRIADENG-MD		Harr	isburg
	Kit #: 3	14729					007
	Created By: R	achelle Arada - [L6NW]		Project Code: WATERTESTING Bottle Orders Group Name: FULL TEST		#	267
	Deliver By: 03	3/10/2022		PO#/JOB#:			
	STG: B Ice Type: W	ottle Orders		Description: No Schedule			
	ice type: w						
		Ship Sample Kits	*	Send Report to	Dillion Address		
		Triad Engineering, I		Triad Engineering, Inc.	Billing Address Triad Engineering, Inc.		
		1075 Sherman Ave		1075 Sherman Ave	10541 Teays Valley Roa		
		Hagerstown, MD 2	1740	Hagerstown, MD 21740	Scott Depot, WV 25560		
		Attn: Nicke Wolfe Phone: 301-797-64	00	Attn: Nicke Wolfe Phone: 301-797-6400	Attn: Karen Means		
		Fax: 301-979-2424	00	Fax: 301-979-2424	Phone: 304-755-0721 Fax: 304-755-1880		
# of							
	ole Tests			Bottle Qty - Type [preservative information]	Total	UN DOT #	
1	@QUANT2000 18HR	V		1 - 100ml poly sterilized [0.25 ml Thio (8%)]	1		
1	Heterotrophic Plate Col	Planks - l		1 - 100ml sterile COLILERT container [THIO xls]	1		
1	Phenolic Compounds-lo			2 - 125ml amber glass [0.5 ml H2SO4 (50%)]	2	UN1830	
1	@DIOXANE	Pisside Free Oblesies Desid	al Tatal	3 - 125ml amber glass [6.88 Sulfite +138 mg Bisulfate]	3		
	Chlorine Residual	Dioxide, Free Chlorine Reside	uai, totai	1 - 125ml amber glass [no preservative]	1		
1	Glyphosate	1		1 - 125ml amber glass [no preservative]	1		
1	@331-PHG			1 - 125ml poly [no preservative]	1		
1	@ANIONS28, @ANION			1 - 125ml poly [no preservative]	1		
1	@2378-TCDD_Dioxin	V		2 - 1L amber glass [1 ml Thio 8%]	-2		
1	@525	· · · · · · · · · · · · · · · · · · ·		2 - 1L amber glass [2ml of 6N HCl]	2	UN1789	
1	2,3,7,8-TCDD			2 - 1L amber glass [no preservative]	2465		
1	Apparent Color, Odor a @549			1 - 1L amber glass [no preservative]	1		
1	@RA226 GA, @RA228	GA		1 - 1L amber poly [no preservative] 3 - 1L poly [4 ml HNO3 18%]	1 3	100004	
1	Asbestos by TEM - >10			1 - 1L poly sonicated [no preservative]		UN2031	
1	Cyanide	V		1 - 250 ml poly [2 ml NaOH (30%)+6 scoops AA]	1		
1	Fluoride	V	_	1 - 250 ml poly [no preservative]	1		
1	@533)			2 - 250 ml polypro w polypro cap [0.25g ammonium acetate]	2		
1	@533 FB			1 - 250 ml polypro w polypro cap [FB_0.25g ammonium acet	atej 1		
1	@533 FB WATER	7		1 - 250 ml polypro w polypro cap [H2O]	1		
1	Endothall		V	1 - 250ml amber glass [no preservative]	1		
'1	Alkalinity in CaCO3 unit Conductance	s, PH (H3=past HT not comp	liant), Specific	1 - 250ml poly [no preservative]	1	• • • •	
1	@537.1		\checkmark	2 - 275 ml polypro w polypro cap [1.4 g Trisma]	2 not rec	ewed for Sprn	2 553-11-22
	@537.1 FB		. /	1 - 275 ml polypro vPace @0apf[96_1.4 g Trisma]			1010000

										Paga	2 of 2
	eurofins				Kit Order	for Triad Engineerir	ia, Inc.			Fage	2012
		Eaton /	Analytical	Pachollo Arac		rofins Eaton Analytical	-	anager			
				Nachelle Alac	ia is your Lu	Tolins Laton Analytical	LEC Gervice Ivia				
	750 Royal Oaks D							(Created Date & Time: 3	/8/2022 3:11:43PM	
	Monrovia, Californ (626) 386-1100 FA			Note: Sam	pler Please	e return this paper v	vith your sam	ples			
	(020) 000 1100 17	01 (000) 001			•	t ID; TRIADENG-MD			Hor	richura	
	Kit	#: 314729		-	onen ®				1 Iai	risburg	
						ode: WATERTESTING	Bottle Orders		-4	<i>‡</i> 267	5
		y: Rachelle	Arada - [L6NW] 22			me: FULL TEST			7	F201	
	STO	G: Bottle Or			PO#/JC	ion: No Schedule					
	Ісе Тур	e: W			Descripti	ion. No Schedule					
			Ship Sample Kits to Triad Engineering, Inc.			nd Report to Id Engineering, Inc.		Billing Address Triad Engineering, Ir	nc.		
			1075 Sherman Ave		107	5 Sherman Ave		10541 Teays Valley	Road		8
			Hagerstown, MD 21740		Hag	gerstown, MD 21740		Scott Depot, WV 25	5560		
											9
			Attn: Nicke Wolfe Phone: 301-797-6400			n: Nicke Wolfe one: 301-797-6400		Attn: Karen Means Phone: 304-755-072	21		
			Fax: 301-979-2424			: 301-979-2424		Fax: 304-755-1880	- I		
# of											
Samp	le Tests					preservative information		Total	UN DOT #		
1	@537.1 FB WATEF	۹			and the second se	w polypro cap [no preser		1			
1	@531	~~~~				ss vial [0.37g KH2Citrate		2 4	· · · · · · · · · · · · · · · · · · ·		
1	@505 @VOA	~				iss vial [1 drop Thio (8%) iss vial [4drops 6N HCL (3	UN1789		13
1	@HAA	V				iss vial [65 mg NH4CI]	50,00,1	3	0111100		
1	@504LOW					iss vial [no preservative]		3			14
W1	@RN					ss vial [no preservative]		2			
1	@ICP, @ICPMS, M	lercury ICP	MS V			/ [2ml HNO3 (18%)]		1	UN 2031		15
1	@900					nl 18%HNO3+125ml poly/	no pres]	1	UN2031		
1	Surfactants					preservative]		1			— 16
V1 1	Total Dissolved Sol @515.4	lia (TDS), To	tal Suspended Solids (TSS		00ml poly [no	preservative j iss [3 mg NaSulfite]		4			
1	@551SODA	~		and the second s		iss vial [1g (1%NaPhos/9	9%KPhos+ 0.6%N				<u> </u>
	gooroopri		-	/vial							
V1	@DBP_14, Bromat	te by UV/VIS		1 - 6	0mL poly [0.3	mL 1% EDA solution]		1			
Sun	n Tests : 38						Sum E	Bottles: 64			
Con	nments										
SHIF	PING: Please provide	e COC and	sampling instructions.								
2	c:t=	Well	R & CA	24			Taken	Dry Eoila	Rhade.	- 1-	
2	Sites.	well	1) & 2616	Neg			1 aper	7			
We	ILB Sa	males	taken @	12:10	m 3	10/2 m	Kel:	nguistal M	8 Tinh	my	
5 -	-		1 k B	111		10/20	Pa	/ /	8 5:4 h @17:4	5 3/10/20	>
>00	mg Sam	112	takin (14/00	27 Yes	0,20	VECIE	EVED 3/20/2	22 1745 P	1.084	
					3/1	Page 91 of 96	REINO	2U194013 3/12	122 1880 R.	100 119910	192
Co	de Status	D	ate Shipped	Via	Ti	racking #	11#0	of Coolers	Preparent By	AN AX	

South	Bend,	IN
00000		

110 S Hill Street

Chain of Custody Record



eurofins Environment Testing

South Bend, IN 46617 Phone: 574-233-4777 Fax: 574-233-8207

Phone. 574-255-4777 Fax. 574-255-6207																	-				
Client Information (Sub Contract Lab)	Sampler				heis,	loe						ier Tra		No(s):			COC No: 810-2416.1				
Client Contact: Shipping/Receiving	Phone:			E-Ma joe.r		is@eu	Irofinse	t.com				e of Or ryland					Page: Page 1 of 1				
Company: Eurofins Lancaster Laboratories Env, LLC							Required st Virgin										Job #: 810-17720-1				
Address:	Due Date Requeste	id:															Preservation Co	des:			
2425 New Holland Pike, City:	3/24/2022 TAT Requested (da	vet:			Analysis Requeste												A - HCL	M - Hexane			
Lancaster		· y =).			1											8	B - NaOH C - Zn Acetate	N - None O - AsNaO2			
State, Zip: PA, 17601																-	D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3			
Phone:	PO#:	D #:				PO #:														F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
717-656-2300(Tel) Email:	WO #				E.	TCD									H - Ascorbic Acid	T - TSP Dodecahydrate U - Acetone					
	Design				Yes or	3,7,8										1	J - DI Water K - EDTA	V - MCAA W - pH 4-5			
Project Name: WV Drinking Water	Project #: 81002211) e (Y	ep 2,										tainare	L - EDA	Z - other (specify)			
Site:	SSOW#				ered Sample (MS/MSD (Yes	16138_DW/16138_P_Sep 2,3,7,8-TCDD										of cont	Other:				
			Sample	Matrix	t pere	//1613										Total Number					
			Туре	(W=water, S=solid,	EILE	D D			11							N					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=grab)	Orwasta/oil, BT=Tiesue, A=Air)	Field Filt	1613										Tota	Special In	nstructions/Note:			
		>	Preserve	ation Code:	\otimes						5 6 2	125	1.3	5	1						
Well B (810-17720-1)	3/10/22	12:10 Eastern		rinking Wat		X										1	2				
Spring (810-17720-2)	3/10/22	14:00 Eastern		Prinking Wat		X										1	2				
					Ш																
					Π																
					Π																
					Π																
					IT																
										+	+-	1									
Note: Since laboratory accreditations are subject to change, Eurofins Eat currently maintain accreditation in the State of Origin listed above for ana	lysis/tests/matrix being analyz	ed, the sample	es must be shi	pped back to the	e Eurofi	ns Eato	n Analytic	al, LLC	laborate	ory or o	ther ins	ruction									
Eurofins Eaton Analytical, LLC attention immediately. If all requested acc	creditations are current to date	e, return the sig	Ined Chain of	Custody attestin	-													1			
Possible Hazard Identification					s		Dispo: eturn T				Disp				s are	7	ned longer than 1 chive For	1 month) Months			
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank: :	2		s		Instruct			quiren	nents:	usai t	sy La			АЛ	211148 1-01	MONUS			
Empty Kit Relinquished by:		Date:			Time	E.				_		Meth	od of \$	Shipm	ent:	-					
Relinquished by:	Date Time 315-2	21601	2	EEA		Rece	ived by:							Date/	Time:	-	/	Company			
Relinquished by	Date/Time:			Company		Rece	ived by:						_	Date	Lime:			Company			
Relinquished by	Date/Time:			Date/Time: Company		Received by 1							Datating 16/22 9:44 Company								
							1-	1 1/1							W MC	7/ 6-	L I VL	TUL			

South Bend, IN

110 S Hill Street

Chain of Custody Record



eurofins Environment Testing

South Bend, IN 46617 Phone: 574-233-4777 Fax: 574-233-8207

6	Client Information (Sub Contract Lab)	Sampler: Lab PM Matth				PM: Carrier Tra theis, Joe								king No	(\$):			COC No: 810-2456.1		
C	Shipping/Receiving	Phone:		· <u>·</u>	E-Ma	ail	eis@e	aurofir	nset o	07				of Orig	jin:				Page: Page 1 of 1	
C	Company:				line	Accr	ditation	ns Requ	uired (S	See not			IVIAI	yianu					Job #:	
	Eurofins Lancaster Laboratories Env, LLC	Due Date Requeste	4			Stat	e - W	est Vir	rginia	(DW)			_					_	810-17720-1	
	Address: 2425 New Holland Pike,	3/24/2022	KG.				Analysis Requested												Preservation Cod	M - Hexane
		TAT Requested (da	iys):																B - NaOH	N - None
	Lancaster																		C - Zn Acetate D - Nitric Acid	0 - AsNaO2 P - Na2O4S
F	PA, 17601					-111													E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
	Phone: 717-656-2300(Tel)	PO #:				-													G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
	Email:	WO #:				Sample (Yes or No	<u>ê</u>												I - Ice J - DI Water	U - Acetone V - MCAA
	Project Name: WV Drinking Water	Project #: 81002211				(Yes	MS/MSD (Yes of No	-			1							ainer	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
	Site:	SSOW#:				- a	S540C/ Copy Analytes											cont	Other:	
ł					-	- B	Anal)											er of		
				Sample	Matrix (w=water,	ŝ	Ado:	:										Total Number		
			Sample	Type (C=comp,	S=solid,	E P	5540C/ Co	-										N IN		
	Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Air) 🗄	Se Pe	420.4										P	Special In	structions/Note:
		\geq	\geq	Preserva	tion Code:	X	X											\times		
\checkmark	Well B (810-17720-5)	3/10/22	12:10 Eastern		Water	Ш	×	X										3		
~	Spring (810-17720-6)	3/10/22	14:00 Eastern		Water	\square	×	×					1					3		
					1															
		-																		
	OK to proceed out of he	1d time	2*			Π														
	OK to proceed out of he		353	17-2	2	Π														
						T														
						Π						Τ								
	Note. Since laboratory accreditations are subject to change, Eurofins Eaton Anal currently maintain accreditation in the State of Origin listed above for analysis/tes Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditation	sts/matrix being analyz	ted, the sample	es must be shi	pped back to th	ne Euro	fins Eat	ton Ana	alytical,	LLC la	borator	y or oth	er instr	uctions	hipmen will be	t is forw provide	varded u ed. Any	under chan	chain-of-custody. If i ges to accreditation s	the laboratory does not status should be brought to
	Possible Hazard Identification					1						ay be	asses	ssed	f sam	ples a			ed longer than 1	
	Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank	2			Specia			Client ns/QC		uireme	Dispo ents	isal B	y Lab			Arch	ive For	Months
	Empty Kit Relinquished by		Date			Tim	e					_		Metho	d of Sh	ipment:		_		
	Relinquished by	Date/Time:		100	Company	1	Re	ceived I	by			-			D	ate/Tim	10			Company
	Relinquished by	Date/Time	20 1	600	Company	74	Re	ceived I	by:			-		_	- 0	eto/Tim		-		Company
	Relinquished by	Date/Time:	~~~		Company		Re	ceived I	by:		A	AA	A	/	9	2)TV	122	-1	TINE	Chropany
	Custody Seals Intact: Custody Seal No.						Co	oler Ter	mperat	ture(s)	C and	Other R	emurk	5.	(,	1.7	
																		_	11.7	Ver: 06/08/2021

Client: Triad Engineering, Inc.

Login Number: 17720 List Number: 1 Creator: Spurgeon, Sheri

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

Job Number: 810-17720-1

List Source: Eurofins Eaton South Bend

Login Number: 17720 List Number: 2	List Source: Eurofins Lancaster Laboratories Environment Testing, LLC List Creation: 03/16/22 09:50 AM
Creator: McCaskey, Jonathan	List Creation. 05/16/22 09.50 AM
Question	Answer Comment

Login Samı	ole Receipt Check	dist		
Client: Triad Engineering, Inc.			Job Number: 810-17720-1	
List Number: 2	List Source: Eurofins	Lancaster Labo	ratories Environment Testing, LLC List Creation: 03/16/22 09:50 AM	4
Creator: McCaskey, Jonathan				
Question	Answer	Comment		
The cooler's custody seal is intact.	True			
The cooler or samples do not appear to have been compromised tampered with.	d or True			
Samples were received on ice.	True			8
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td> <td></td> <td></td> <td></td>	True			
Cooler Temperature is recorded.	True			9
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td> <td></td> <td></td> <td></td>	N/A			
WV: Container Temperature is recorded.	N/A			
COC is present.	True			
COC is filled out in ink and legible.	True			
COC is filled out with all pertinent information.	True			
There are no discrepancies between the containers received and	d the COC. True			
Sample containers have legible labels.	True			13
Containers are not broken or leaking.	True			
Sample collection date/times are provided.	True			
Appropriate sample containers are used.	True			
Sample bottles are completely filled.	True			
There is sufficient vol. for all requested analyses.	True			
Is the Field Sampler's name present on COC?	False	Received pro	ject as a subcontract.	
Sample custody seals are intact.	N/A			17

Login Number: 17720	List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Number: 3	List Creation: 03/18/22 11:19 AM
Creator: Hess, Anna	

Login Sample Receipt Checklist									
Client: Triad Engineering, Inc.			Job Number: 810-17720-1						
Login Number: 17720 Lis	st Source: Furofins I	ancaster Laboratories	Environment Testing, LLC						
List Number: 3 Creator: Hess, Anna			reation: 03/18/22 11:19 AM	5					
Question	Answer	Comment							
The cooler's custody seal is intact.	N/A								
The cooler or samples do not appear to have been compromised or tampered with.	True			7					
Samples were received on ice.	True			8					
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td> <td></td> <td></td> <td></td>	True								
Cooler Temperature is recorded.	True			9					
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td> <td></td> <td></td> <td></td>	N/A								
WV: Container Temperature is recorded.	N/A								
COC is present.	True								
COC is filled out in ink and legible.	True								
COC is filled out with all pertinent information.	True								
There are no discrepancies between the containers received and the	e COC. True								
Sample containers have legible labels.	True			13					
Containers are not broken or leaking.	True								
Sample collection date/times are provided.	True								
Appropriate sample containers are used.	True								
Sample bottles are completely filled.	True								
There is sufficient vol. for all requested analyses.	True			16					
Is the Field Sampler's name present on COC?	False	Received project as a	subcontract.						
Sample custody seals are intact.	N/A			17					

3020 VENTRIE COURT MYERSVILLE, MD 21773

Client:



Project: Turkey Run

Site: N/A

Work order: FWC0147

Received at lab:	03/11/22 11:00
Date Reported:	03/14/22 15:00
Collected by:	Erika Rundquist
Treatment:	N/A

Triad Engineering, Inc.

10541 Teays Valley Road Scott Depot, WV 25560

Source: Well MW-13@ Turkey Run

(Groundwater)(Grab)

Data Analyzed by: Fredricktowne Labs:

Lab ID Parameter Result Units MRL Prepared Analyzed Analyst Qual Method 03/11/22 15:30 03/12/22 10:38 9223B FWC0147-01 Bacteria - Total Coliform 200 cfu/100 1 JD ml FWC0147-01 03/11/22 15:30 03/12/22 10:38 9223B Bacteria - E coli 10 cfu/100 JD 1 ml 03/11/22 15:16 03/14/22 08:21 FWC0147-01 Bact.- Stand. Plate 100 CFU/10 2.0 JD Simplate® Count 0 mL

Source: Spring Middle of Pool

(Groundwater)(Grab)

Data Analyzed by: Fredricktowne Labs:

Collected: 3/11/2022 9:30:00AM

Collected: 3/11/2022 9:16:00AM

Lab ID	Parameter	Result	Units	MRL	Prepared	Analyzed	Analyst	Qual	Method
FWC0147-02	Bacteria - Total Coliform	330	cfu/100 ml	1	03/11/22 15:30	03/12/22 10:38	JD		9223B
FWC0147-02	Bacteria - E coli	3	cfu/100	1	03/11/22 15:30	03/12/22 10:38	JD		9223B
FWC0147-02	Bact Stand. Plate	108	ml CFU/10	2.0	03/11/22 15:16	03/14/22 08:21	JD		Simplate®
	Count		0 mL						

Sara Z. Rardall

Sara E. Randall, President

Fredericktowne Labs, Inc. is a State Certified Water Quality Laboratory Maryland Cert. No. 116 Virginia Cert. No. 00444 West Virginia Cert. 415 MDOT WBE Cert. No.: 91-158

		FRE 3020 VENTRIE	AIN OF (EDERICKTOW E CT., PO BOX 24 1-293-3340 OR FA	NE LAI 15, MYEI	BS, IN	C. E, MD 2	1773	Phone Email	e Numbe	er:_3 () { {	01- ie e	747	-	64 v <u>ç</u> .(Page 2 of 3
FTL Acct. No.:	ALUN		Collected By: (Ple								Analys	ses To Be	Perfor	med	
FTL Acct. No.: EWCO147 Project: Name & Address Turkey Fun			Affiliation:						_	12000	curt				c
		Trin		LAC	me	er u)	_	1138	54				Preservation	
	Site cription	Collection Date	Collection Time	Matrix DW/ WW	pН	Res. Cl	DO	Temp	Grab/ Comp	40	Ple				Prese
Wellis Well no-i	2 The Mice Part	3/11/22	9:16	GW					G	V	V	_			
Spring Middle	of Pool	3/10/22	4:30	Gw					6	V	V	_			
	•								3						
							+					-			
										1		-			
Relinquished By: (Print): Gr. Ka Rund		Received By:	e Daily	3/1		ate/Time		nent Dev ibeTreat			:	Yes		No [
(Signature): Lon In Mr	11:05	(Signature):	recob D	an	1100)									
Relinquished By:	Date/Time	Received By:	une p	0		ate/Time	1		r Sample	es - Wa	ter Last I				
(Print):		(Print):						Date:				Time:			
(Signature):		(Signature):					Metho	od of Shi	pment:		lce	ed: Yes		No [_
Relinquished By: (Print):	Date/Time	Received By: (Print):			Da	ate/Time	1	ition of S	ample(s) upon	Receipt:				
(Signature):		(Signature):													

Appendix F

USGS StreamStats Report

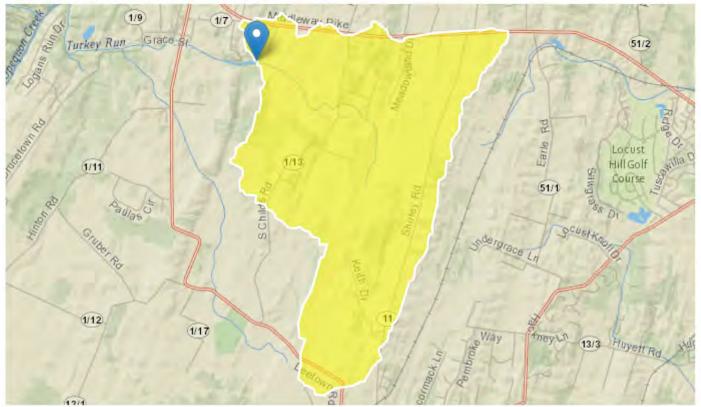
StreamStats Report

 Region ID:
 WV

 Workspace ID:
 WV20220331025204819000

 Clicked Point (Latitude, Longitude):
 39.30007, -77.97034

 Time:
 2022-03-30
 22:52:26
 -0400



Basin Characteristics

Parameter	
-----------	--

Code	Parameter Description	Value	Unit		
CARBON	Percentage of area of carbonate rock	98.8	percent		
DRNAREA	Area that drains to a point on a stream	4.74	square miles		
ELEV	Mean Basin Elevation	576	feet		
ELEVMAX	Maximum basin elevation	667	feet		
I24H2Y	Maximum 24-hour precipitation that occurs on average once in 2 years - Equivalent to precipitation intensity index	2.86	inches		

Parameter Code	Parameter Description	Value	Unit
LAT_CENT	Latitude of Basin Centroid	39.285782	decimal degrees
LC06AGRI	Percent agriculture computed as total of grass, pasture, and crops, NLCD classes 71, 81 and 82	75.1	percent
LC06BARE	Percent of area covered by barren rock using 2006 NLCD	0	percent
LC06DEV	Percentage of land-use from NLCD 2006 classes 21-24	5.8	percent
LC06FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2006	18.4	percent
LC06GRASS	Percent of area covered by grassland/herbaceous using 2006 NLCD	0.5	percent
LC06WATER	Percent of open water, class 11, from NLCD 2006	0	percent
LC06WETLND	Percent of area covered by wetland using 2006 NLCD	0.1	percent
LC11AGRI	Percent agriculture computed as total of grass, pasture, and crops, NLCD classes 71, 81 and 82	75.1	percent
LC11BARE	Percentage of barren from NLCD 2011 class 31	0	percent
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	5.8	percent
LC11FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2011	18.8	percent
LC11GRASS	Percent of area covered by grassland/herbaceous using 2011 NLCD	0.2	percent
LC11WATER	Percent of open water, class 11, from NLCD 2011	0	percent
LC11WETLND	Percentage of wetlands, classes 90 and 95, from NLCD 2011	0.1	percent
LC16AGRI	Percent agriculture computed as total of grass, pasture, and crops, NLCD 2016 classes 71, 81 and 82	75.1	percent
LC16BARE	Percentage of barren from NLCD 2016 class 31	0	percent
LC16DEV	Percentage of land-use categories 21-24 from NLCD 2016	5.8	percent

Parameter Code	Parameter Description	Value	Unit
LC16FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2016	18.5	percent
LC16GRASS	Percentage of grassland from NLCD 2016 class 71	0.3	percent
LC16WATER	Percent of open water, class 11, from NLCD 2016	0	percent
LC16WETLND	Percentage of wetlands, classes 90 and 95, from NLCD 2016	0.1	percent
LONG_CENT	Longitude Basin Centroid	77.953123	decimal degrees
LOWREG	Low Flow Region Number	1111	dimensionless
MINBELEV	Minimum basin elevation	510	feet
PRECPRIS00	Basin average mean annual precipitation for 1971 to 2000 from PRISM	40.02	inches
RELIEF	Maximum - minimum elevation	157	feet
SSURGODEP	Area-weighted average soil depth from NRCS SSURGO database	13.28	inches
SSURGOKSAT	Saturated hydraulic conductivity in micrometers per second from NRCS SSURGO database	0.114	micrometers per second
SSURGWATCP	Available water capacity of the top 60 inches of soil - determined from SSURGO data	1.843	inch per inch

General Flow Statistics Parameters [LowFlow Eastern Panhandle 2008 5105]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	4.74	square miles	4.55	1619
LC16DEV	Percent_developed_from_NLCD2016	5.8	percent	0	100
CARBON	Percent Carbonate	98.8	percent	0	100
LOWREG	Low Flow Region Number	1111	dimensionless	1111	1859

General Flow Statistics Flow Report [LowFlow Eastern Panhandle 2008 5105]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE
Harmonic Mean Streamflow	0.923	ft^3/s	43

General Flow Statistics Citations

Wiley, Jeffrey B.,2008, Estimating Selected Streamflow Statistics Representative of 1930–2002 in West Virginia: U.S. Geological Survey Scientific Investigations Report 2008-5105, 24 p. (http://pubs.usgs.gov/sir/2008/5105/)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.8.1 StreamStats Services Version: 1.2.22 NSS Services Version: 2.1.2

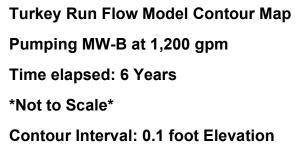
Appendix G

Flow Model Results

Predicted Drawdown Calculations

Recharge Calculations





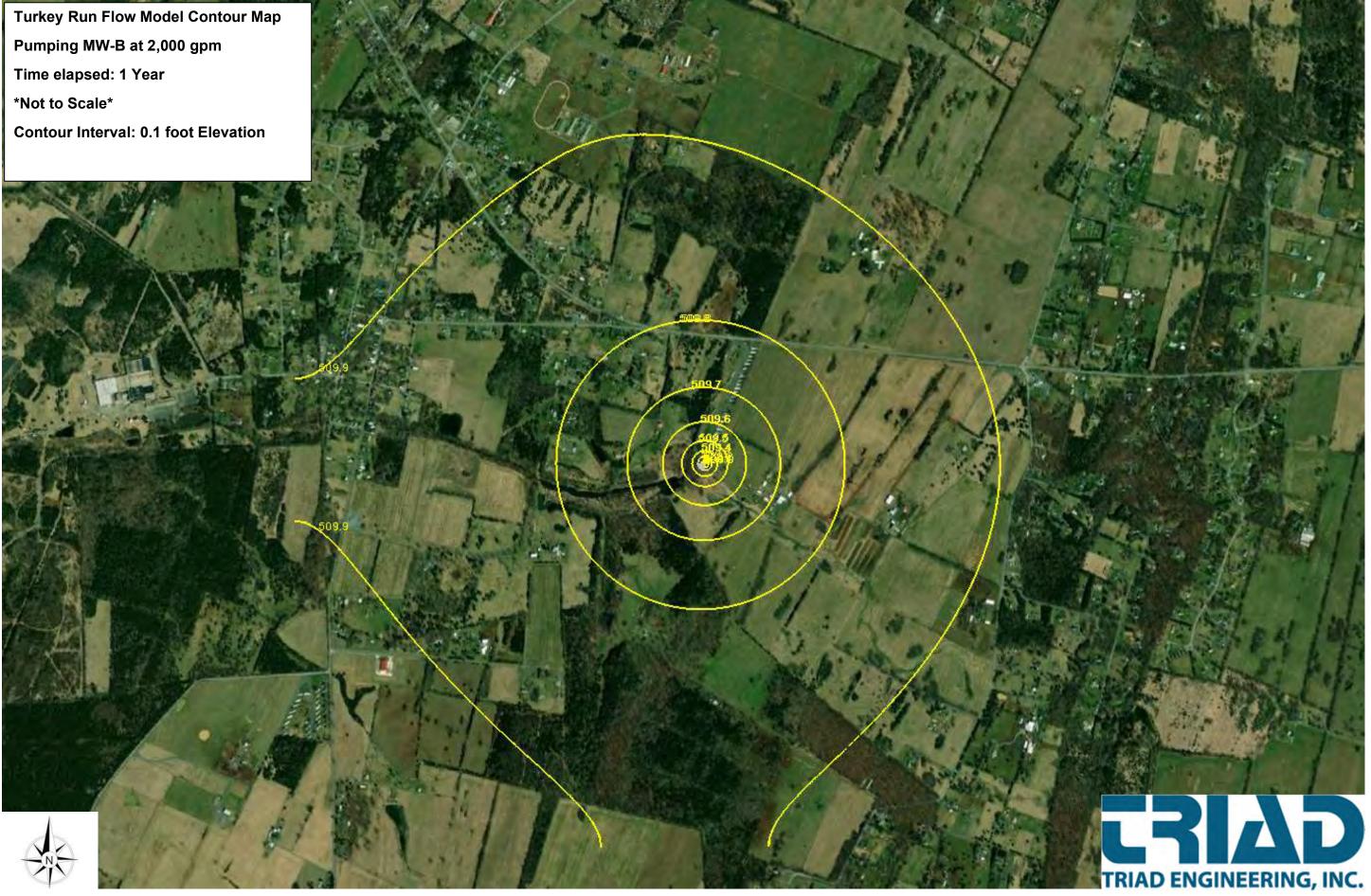


Pumping MW-B at 1,200 gpm Time elapsed: 12 Years *Not to Scale*











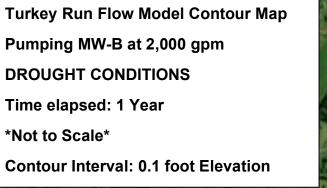


Turkey Run Flow Model Contour Map Pumping MW-B at 2,000 gpm Time elapsed: 30 Years *Not to Scale* Contour Interval: 0.1 foot Elevation



Turkey Run Flow Model Contour Map Pumping MW-B at 1,200 gpm DROUGHT CONDITIONS Time elapsed: 1 Year *Not to Scale* Contour Interval: 0.1 foot Elevation







Predicted Future Drawdowns

Turkey Run Spring Middleway, WV Modified Theis Equation µ=r^2S/4Tt s=QW(µ)/4∏(T)

Withdraw Rates: 1,200 and 2,000 gpm

No Recharge Parameters

		Units	
Transmissivity (T) =	2,752,640	gpd/ft	368,000 ft^2/day
Storage Coefficient (S) =	2.88E-34	unitless	
Discharge Rate (Q) =	1,728,000	gpd	1,200 gpm
Discharge Rate (Q) =	2,880,000	gpd	2,000 gpm

	Time (t) =	365	Days (1 Year)		Time (t) =	2190	Days (6 years)		Time (t) =	4380	Days (12 years	;)	Time (t) =	10,950	Days (30 years	5)
Distance r (ft)	10	100	1000	2000	10	100	1000	2000	10	100	1000	2000	10	100	1000	2000
μ	7.17E-42	7.17E-40	7.17E-38	2.87E-37	1.19E-42	1.19E-40	1.19E-38	4.78E-38	5.97E-43	5.97E-41	5.97E-39	2.39E-38	2.39E-43	2.39E-41	2.39E-39	9.55E-39
W(μ)	94.16	89.56	84.95	83.56	95.96	91.35	86.75	85.36	96.65	92.04	87.44	86.05	97.56	92.96	88.35	86.97
Drawdown in ft Q = 1.73 million gpd (1,200																
gpm)	4.71	4.48	4.25	4.18	4.80	4.57	4.34	4.27	4.83	4.60	4.37	4.30	4.88	4.65	4.42	4.35
Drawdown in ft Q = 2.88 million gpd (2,000																
gpm)	7.84	7.46	7.08	6.96	7.99	7.61	7.23	7.11	8.05	7.67	7.28	7.17	8.13	7.74	7.36	7.24

Italic and Red From Appendix 1; Fetter, 2001

Predicted Future Drawdowns Turkey Run Spring Middleway, WV

gpm)

Modified Theis Equation µ=r^2S/4Tt s=QW(µ)/4∏(T)

960.7 gpm

Withdraw Rates: 1,200 and 2,000 gpm					
Drought Recharge					
Parameters		Units			
Transmissivity (T) =	2,752,640	gpd/ft	. 368,000	ft^2/day	Drought Year Recharge Rate
Storage Coefficient (S) =	2.88E-34	unitless			
Discharge Rate (Q) =	3,111,408 gpd		2,161 gpm		
Discharge Rate (Q) =	4,263,408 gpd		2,961 gpm		
	Time (t) =	365	Days (1 Year)]
Distance r (ft)	Time (t) = 10	365	Days (1 Year)	2000]
Distance r (ft) µ			<u>, , , , , , , , , , , , , , , , , , , </u>	2000 2.87E-37	
	10	100	1000		
μ	10 7.17E-42	100 7.17E-40	1000 7.17E-38	2.87E-37	
μ W(μ)	10 7.17E-42	100 7.17E-40	1000 7.17E-38	2.87E-37	
μ W(μ) Drawdown in ft Q = 1.73 million gpd (1,200	10 7.17E-42 94.16	100 7.17E-40 89.56	1000 7.17E-38 84.95	2.87E-37 83.56	

10.48

10.30

11.04 Italic and Red From Appendix 1; Fetter, 2001

11.61

Date: 4/13/2022 Recharge Calculations: General Stream Stats

Basin Area: 4.73 square miles (3,027.21 acres)
Average Precipitation: ~40 inches per year
Drought Precipitation: ~24.57 inches (1930 i4weather.net)
Effective Recharge: 10 inches per year (0.8333 ft)(25%)
Effective Recharge During a Drought: 6.14 inches per year (0.5119 ft)(25%)
Available Recharge from Precipitation into the Basin: 2,522.675 acre/ft/year (822,017,300 gallons/year) (1,563.96 gpm)
Available Recharge from Precipitation into the Basin during a Drought: 1,549.62 acre/ft/year (504,945,900 gallons/year) (960.70 gpm)

Estimated withdraw:

- 1,200 gpm: 630,720,000 gallons per year: 24% less than recharge
- 2,000 gpm: 1,051,200,000 gallons per year: 28% greater than recharge

*Important to note this calculation only takes into consideration the precipitation that falls withing the topographical drainage basin. This calculation assumes no other discharges.