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**Quarter 1, 2023 Monitoring Well
Sampling,
Request for Case Closure
and
Seven Risk Factors Report**

Site Location:

Winfield BP
1631 West Liberty Road
Sykesville, MD

MDE Case # 2006-0466CL
Facility I.D. No. 6338

Prepared For:

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June 8, 2023

SIGNATURE SHEET

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1.0 Introduction

This Report of Monitoring Well Sampling, Request for Closure and Seven Risk Factors Report has been prepared on behalf of Tevis Oil Inc. for the Winfield BP located at 1631 West Liberty Rd. Sykesville, MD; referred to herein as the "site".

2.0 Groundwater Monitoring

2.1 Monitoring Well Gauging & Sampling

Groundwater monitoring activities included in this report include the sampling of: The site monitoring wells were gauged and sampled on 3/21/23.

All samples were collected by routine MW sampling protocol and placed in a cooler with ice, chain of custody record, trip blank and temperature blank for delivery to AECs laboratory to be analyzed by EPA Method 8260 for volatile organic compounds (VOCs) and TPH DRO/GRO by EPA Method 8105.

2.2 Domestic Supply Well Sampling

On 3/21/23 AEC personnel collected quarterly samples from the supply well servicing the store. All samples were collected by an MDE certified drinking water sampler and placed in a cooler with ice, chain of custody record, trip blank and temperature blank for delivery to AECs laboratory to be analyzed by EPA Method 524 for volatile organic compounds (VOCs).

3.0 Results of Groundwater Sampling

3.1 Groundwater Elevation & Flow Direction

Relative groundwater elevation, calculated using depth to groundwater measurements collected from the shallow monitoring wells during the 03/21/2023 sampling event, ranged from 56.89 feet in MW-2 (highest) to 52.81 feet in MW-4 (lowest). Based on the survey data and the depth to groundwater measurements collected, the groundwater elevation contours for the shallow wells depict groundwater flow to be primarily to the west.

Relative groundwater elevation, calculated using depth to groundwater measurements collected from the deep monitoring wells during the 03/21/2023 sampling event, ranged from 57.20 feet in MW-6D (highest) to 53.27 feet in MW-9D (lowest). Groundwater elevation contours for the deep wells depict groundwater flow to be to the west.

3.2 Monitoring Well Sampling Results

Method detectable concentrations of VOCs were observed in the groundwater samples collected on 03/21/2023 from the sites monitoring well network.

MTBE was identified in Site MWs

- MW-4 (28.20ug/L)
- MW-5s(22.20ug/L)

A Quick Reference Historical Groundwater Sampling Summary Table which summarizes current and historical groundwater sampling analytical results can be found in Appendix B.

A full Report of Analysis and Chain of Custody Record can be found in Appendix C.

3.2.1 Concentration Statistical Trend Evaluation

Mann/Kendall data analysis using the GSI Mann-Kendall Toolkit was performed on MWs- Including MW-4, MW-5S and MW-8D. The Trend analysis indicated that there was a no trend of MTBE contamination for MW4; increasing trend for MW 5S; no trend for 8D.

Mann/Kendall analysis trend analysis could not be performed for MTBE for MWs; MW-1, MW-2, MW-3, MW-5D, MW-6D, MW-7D, MW-9D and PW-1 due to insufficient detectable concentrations.

Mann/Kendall analysis trend analysis could not be performed for Benzene, Toluene, Ethylbenzene or Xylenes, due to insufficient detectable concentrations.

The Mann Kendall Analysis using the GSI Mann-Kendall Toolkit is provided in Appendix E.

3.3 Domestic Supply Well Sampling Results

3.3.1 Site Domestic Supply Well

Method detectable concentrations of VOCs were not observed in the drinking water sample collected from the site's drinking water well during the Q1 of 2023 sampling event.

Method detectable concentrations of VOCs were not observed in the drinking water samples collected from the adjacent properties drinking water wells located at 1709 West Liberty Road (Little George's) and 1621 West Liberty Rd (PNC Bank) during the November of 2019 sampling event.

A table summarizing the results of the recent sampling as well as all historical sampling can be found in Appendix B.

4.0 Request for Closure/ Seven Risk Factors Assessment

4.1 Liquid Phase Hydrocarbons (LPH)

LPH has not been observed in any of the on-site groundwater monitoring wells.

4.2a Current and Future Use of Impacted Groundwater

Groundwater has potable and irrigation uses in the vicinity of the subject site.

4.2b Area Domestic Supply Well Data

A domestic supply well receptor survey was performed in 2019. The documents related to the findings of the survey are provided in Appendix D.

4.3 Migration of Contamination

4.3.1 Contaminant Transport

The Maryland Geologic Survey (MGS) describes the site as being located in the Mt. Airy Upland District of the Piedmont Plateau Province. Rolling upland herringbone texture due to interaction of thin siltstones and quartzites with stream reaches controlled by joints oblique to bedrock strike; streams often incised (e.g., Bennett, Little Bennett, Bush, Linganore, and Israel Creeks).

Historical monitoring well sampling records dating from July of 2005, indicate the contaminant reached the out of service onsite well PW-1. Monitoring Wells; MW-4, MW-5s, MW7d and MW-8 have also shown to be impacted by petroleum hydrocarbons.

Based on groundwater flow calculation data MWs; MW-1, MW-2, MW-6D appear to be hydraulically up-gradient of the contamination and have not shown to be impacted historically. MW-3 appears to be cross gradient and has not impacted.

4.4 Human Exposure

4.4.1 Toxicology of Contaminants of Concern

The primary contaminants of concern for this site are the BTEX compounds and the fuel oxygenate Methyl-tert-Butyl-Ether (MTBE). The Agency for Toxic Substances and Disease Registry (ATSDR) has published a ToxFAQs sheet for the BTEX compounds which states the following;

“Benzene, toluene, ethyl benzene, and xylenes frequently co-occur at hazardous waste sites. Various combinations of these chemicals are among the most frequently found binary mixtures in completed exposure pathways at

hazardous waste sites. Media contaminated with these chemicals include air, water, and soil. Contamination of groundwater can result in volatilization into indoor air when the groundwater is used as household water. In addition, contamination of groundwater and subsurface soil can result in migration of these chemicals into basements as soil gas. The chemicals are used as solvents in products such as paints and coatings, and are constituents of petroleum products, particularly gasoline, jet fuels, and kerosene. The BTEX chemicals are discussed in the Toxicological Profile on Total Petroleum Hydrocarbons (ATSDR 1999a), but more recent information, including a physiologically-based pharmacokinetic (PBPK) model for the whole mixture, has triggered this reassessment of the joint toxic action of these chemicals.

Each of the chemicals in the mixture of concern is volatile, well absorbed, extensively metabolized, and does not persist in the body for long periods of time. All of the BTEX chemicals can produce neurological impairment, and exposure to benzene can additionally cause hematological effects including aplastic anemia and acute myelogenous leukemia. The critical nature of the neurotoxicity (i.e., the noncancer effect expected to occur at the lowest exposure levels) is reflected by the use of neurological impairment as the basis for 9 of 13 MRLs for BTEX chemicals, including 6 of 8 inhalation MRLs (ATSDR 1995, 1997, 1999b, 2000). The carcinogenic (leukemogenic) potential of benzene is well established as indicated by its consensus classification as a human carcinogen by the National Toxicology Program (NTP 2001), U.S. Environmental Protection Agency (EPA) (IRIS 2001), and International Agency for Research on Cancer (IARC 1987). Ethyl benzene is possibly carcinogenic to humans based on a recent assessment by IARC (2000). Toluene and xylenes have been categorized as not classifiable as to human carcinogenicity by both EPA (IRIS 2001) and IARC (1999a,).

The Agency for Toxic Substances and Disease Registry (ATSDR) has published a ToxFAQs sheet for the compound MTBE, a copy of which can be found in Attachment E. The ATSDR describes MTBE as the following;

- Methyl tert-butyl ether (MTBE) is a flammable liquid which is used as an additive in unleaded gasoline. Drinking or breathing MTBE may cause nausea, nose and throat irritation, and nervous system effects. MTBE has been found in at least 11 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

In reference to the carcinogenicity of MTBE, the US EPA states on its website that the following in regards to MTBE the majority of the human health-related research conducted to date on MTBE has focused on effects associated with the inhalation of the chemical. When research animals inhaled high concentrations of MTBE, some developed cancers or experienced other non-cancerous health effects to date, independent expert review groups who have assessed MTBE inhalation health risks e.g., Interagency Assessment of Oxygenated Fuels) have

not concluded that the use of MTBE-oxygenated gasoline poses an imminent threat to public health. However, researchers have limited data about what the health effects may be if a person swallows (ingests) MTBE. EPA's Office of Water has concluded that available data are not adequate to estimate potential health risks of MTBE at low exposure levels in drinking water but that the data support the conclusion that MTBE is a potential human carcinogen at high doses. Recent work by EPA and other researchers is expected to help determine more precisely the potential for health effects from MTBE in drinking water."

In regards to MTBEs toxicity when ingestion is considered the EPA states on its website that the

"EPA reviewed available health effects information on MTBE in its 1997 [Drinking Water Advisory](#) guidance and decided that there was insufficient information available to allow EPA to establish quantitative estimates for health risks and as such would not set health advisory limits. The drinking water advisory document indicates that there is little likelihood that MTBE in drinking water will cause adverse health effects at concentrations between 20 and 40 ppb or below."

The Maryland department of the environment (MDE) has a Generic Numeric Cleanup Standard for Type I and Type II Aquifers for MTBE of 20 ppb. The primary route for human exposure to MTBE and most petroleum hydrocarbons in general, includes inhalation, ingestion and dermal contact. Inhalation of contaminated air is most likely to occur from vapor intrusion into the structure. Ingestion of contaminated water is most likely to occur from drinking contaminated water. Dermal exposure is most likely to occur from contact with contaminated soils during excavation/construction activities. These exposure pathways are further explored in the sections below.

4.4.2 Vapor Intrusion & Inhalation of Contaminants

Depths to groundwater observed in site monitoring wells range from 38 to greater than 60 feet below ground surface. Therefore, vapor intrusion concerns are minimal.

4.4.3 Ingestion of Contaminants

The primary route for subsurface contamination to be ingested by a human would for the contaminant to migrate to a domestic supply well. The site domestic supply well will continued to be monitored on an annual basis for the presence of MTBE in order for the site to comply with High Risk Groundwater Use Area regulations. Therefore, the impact to the supply PW-1A in excess of the actionable limits will be identified should exceedances occur.

4.4.4 Dermal Contact with Contaminants

Exposing the contamination by excavation/construction activities is the most likely pathway for human dermal exposure to this subsurface contamination. Currently AEC has no knowledge of any planned future excavations within the impacted area. Should there be excavating in the impacted area, care must be taken by the property owner and/or excavator to identify petroleum contamination and should contamination be observed MDE will be notified. Any petroleum contaminated soil, water or vapor will be handled in compliance with federal, state and local regulations.

4.5 Environmental Ecological Exposure

The nearest waterway is unnamed and/or surface body of water is .63 miles from the subject site therefore Environmental and Ecological Exposure is highly unlikely.

4.6 Impact to Utilities and Other Buried Services

Depths to groundwater observed in site monitoring wells range from 38 to greater than 60 feet below ground surface. Therefore Impact to utilities is highly unlikely.

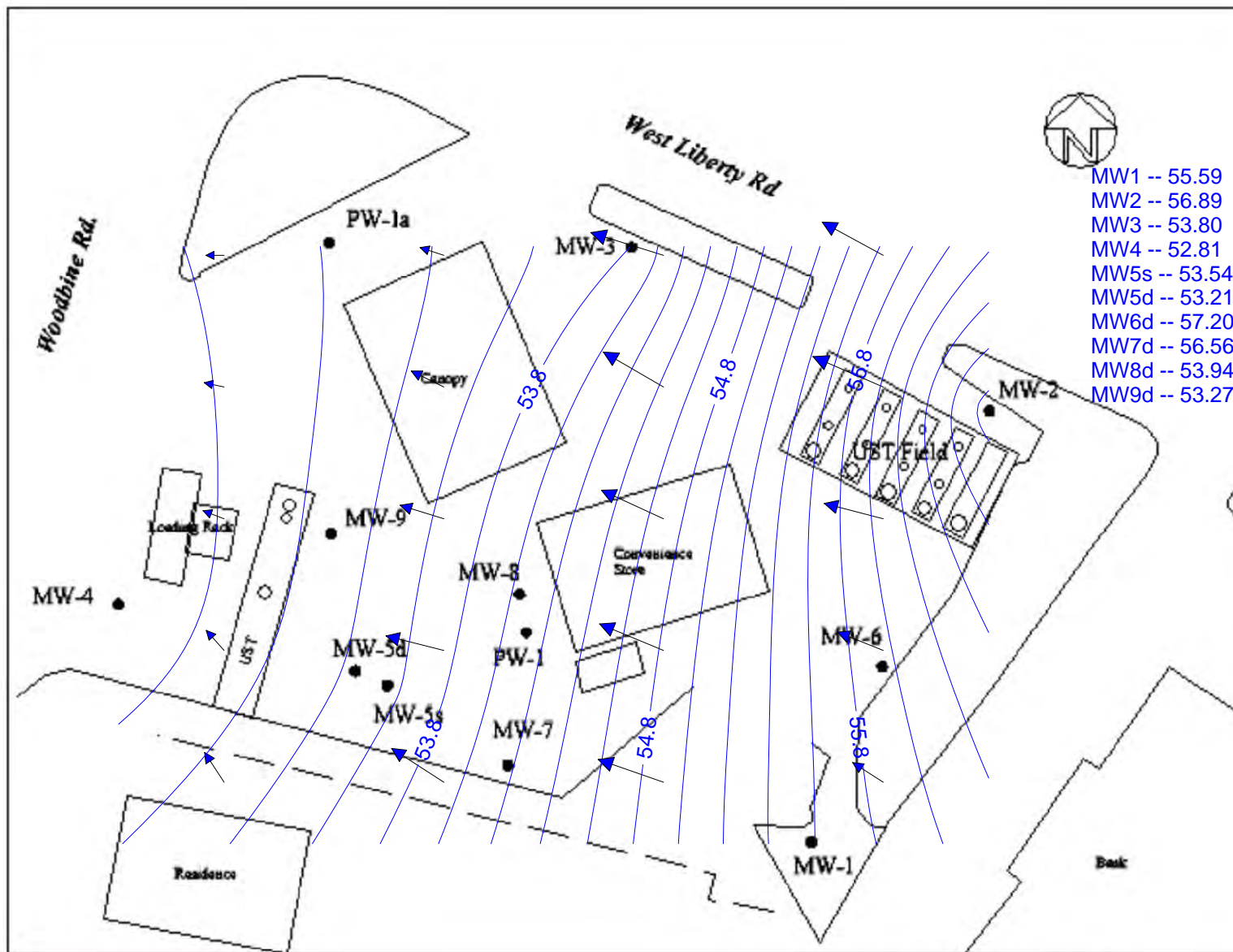
4.7 Other Sensitive Receptors

Based on a review of all available information at the time of this report no other sensitive receptors have been identified.

5.0 Conclusion

Based on a review of all the information stated above it is the opinion of AEC that the contamination present on the subject will be sufficiently monitored by complying with High Risk Groundwater Use Area (HRGUA) Regulation. AEC on behalf of Tevis Oil Inc. is requesting that Case # 2006-0466CL be closed and that all wells including air sparge and SVE wells be abandoned except for MW's; MW-2, MW-3 and MW-4.

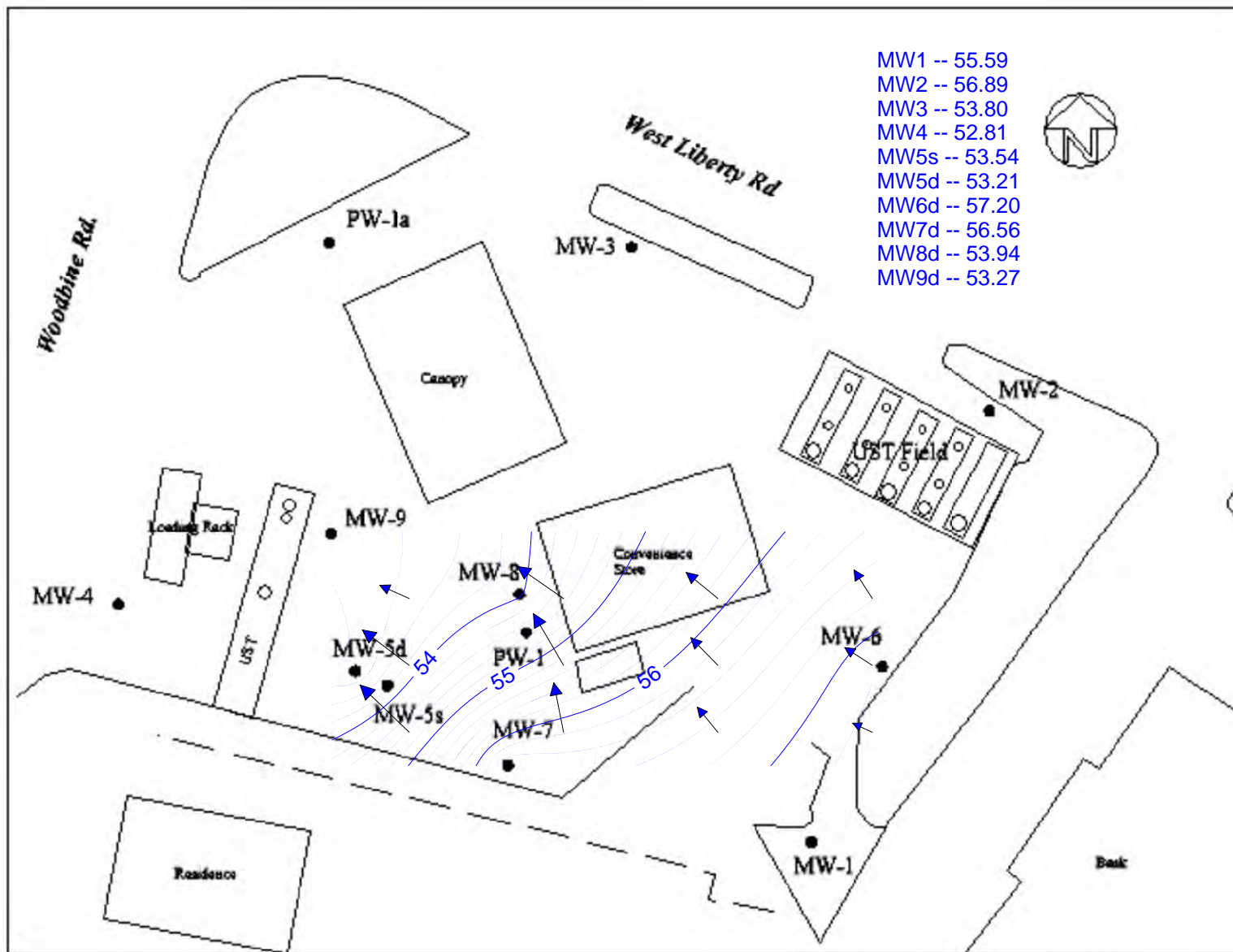
Appendix A
Site Maps



Tevis Winfield Project
 1631 West Liberty Rd
 Winfield, MD
 March 2023

Tevis Winfield Project
 Groundwater Elevation Drawing
 Shallow Wells .2ft Contours

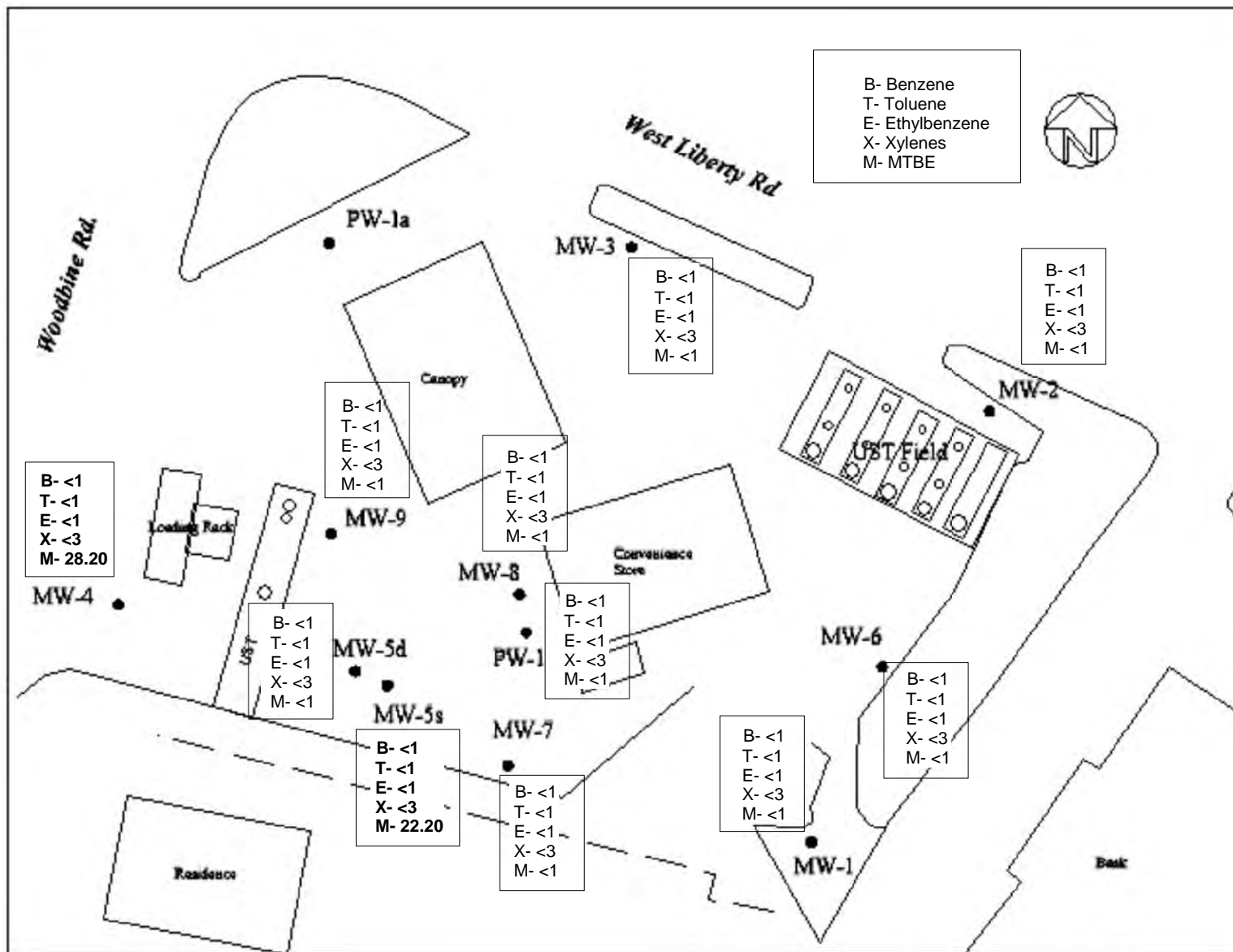




Tevis Winfield Project
 1631 West Liberty Rd
 Winfield, MD
 March 2023

Tevis Winfield Project
 Groundwater Elevation Drawing
 Deep Wells .2ft Contours





Tevis Winfield Project
 1631 West Liberty Rd
 Winfield, MD
 March 2023

Tevis Winfield Project
 Groundwater Concentration Drawing
 Concentrations in ug/L



Appendix B
Groundwater Gauging & Analytical Tables

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GENES, Type I and II, Winfield					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-1 TOS=unknown BOS=76.6	100.00														
		3/14/2014	39.91	60.09	--	--	--	--	--	--	--	--	--	--	--
		4/17/2014	39.75	60.25	--	--	--	--	--	--	--	--	--	--	--
		5/1/2014	38.51	61.49	<1.00	<1.00	<1.00	<1.00	4.99	<5.00	<1.00	<1.00	<1.00	--	--
		7/8/2014	39.49	60.51	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		10/3/2014	43.30	56.70	<1.00	<1.00	<1.00	<1.00	4.55	<5.00	<1.00	<1.00	<1.00	--	--
		1/29/2015	42.98	57.02	<1.00	<1.00	<1.00	<1.00	10.8	<5.00	<1.00	<1.00	<1.00	--	--
		2/9/2015	42.84	57.16	<1.00	<1.00	<1.00	<1.00	5.17	<5.00	<1.00	<1.00	<1.00	--	--
		3/27/2015	42.02	57.98	<1.00	<1.00	<1.00	<1.00	5.48	<5.00	<1.00	<1.00	<1.00	--	--
		4/28/2015	42.46	57.54	<1.00	<1.00	<1.00	<1.00	10.5	<5.00	<1.00	<1.00	<1.00	--	--
		7/1/2015	42.30	57.70	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		8/13/2015	42.27	57.73	--	--	--	--	--	--	--	--	--	--	--
		9/2/2015	43.38	56.62	--	--	--	--	--	--	--	--	--	--	--
		10/8/2015	44.53	55.47	<1.00	<1.00	<1.00	<1.00	1.09	<5.00	<1.00	<1.00	<1.00	--	--
		10/5/2016	45.78	54.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/16/2017	47.15	52.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		6/27/2017	44.31	55.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		9/27/2017	46.21	53.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		9/21/2018	36.63	63.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/31/2018	46.85	53.15	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		3/22/2019	37.05	62.95	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019	38.85	61.15	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		11/6/2019	43.24	56.76	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	42.31	57.69	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	42.40	57.60	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		9/21/20	44.09	55.91	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		12/9/2020	44.60	55.40	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		3/22/2021	41.83	58.17	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		6/14/2021	42.90	57.10	<1	<1	<1	<1	1.49	<25	<1	<1	<1	<40	<40
		9/21/2021	44.50	55.50	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		12/16/2021	44.83	55.17	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		7/12/2022	44.40	55.60	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/16/2022	45.28	54.72	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	45.79	54.21	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		3/21/2023	44.41	55.59	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Analytes					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-2 TOS=unknown BOS=71.83	98.64														
		3/14/2014			--	--	--	--	--	--	--	--	--	--	--
		4/17/2014	36.92	61.72	--	--	--	--	--	--	--	--	--	--	--
		5/1/2014	36.86	61.78	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		7/8/2014	35.58	63.06	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/3/2014	36.73	61.91	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		1/29/2015	40.74	57.90	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		2/9/2015	40.40	58.24	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		3/27/2015	40.26	58.38	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		4/28/2015	39.28	59.36	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		7/1/2015	39.79	58.85	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		8/13/2015	38.47	60.17	Well covered										
		9/2/2015	--	--	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/8/2015	41.90	56.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/5/2016	43.20	55.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/16/2017	44.57	54.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		6/27/2017	41.60	57.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		9/27/2017	43.65	54.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		9/21/2018	33.65	64.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/31/2018	43.91	54.73	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		3/22/2019	34.34	64.30	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019	36.15	62.49	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		11/6/2019	40.55	58.09	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	39.68	58.96	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	39.68	58.96	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		09/20/20	40.37	58.27	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		12/09/20	41.95	56.69	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		03/21/21	39.42	59.22	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		06/14/21	40.21	58.43	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		09/21/21	41.88	56.76	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		12/16/2021	42.21	56.43	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		7/12/2022			MW Damaged and could not be sampled										
	98.15	9/16/2022	43.29	54.86	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	44.88	53.27	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		3/21/2023	41.26	56.89	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Analytes					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-3 TOS=unknown BOS=71	99.03														
		3/14/2014	40.58	58.45	--	--	--	--	--	--	--	--	--	--	--
		4/17/2014	39.29	59.74	--	--	--	--	--	--	--	--	--	--	--
		5/1/2014	39.33	59.70	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		7/8/2014	40.05	58.98	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/3/2014	44.03	55.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		1/29/2015	44.69	54.34	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		2/9/2015	43.71	55.32	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		3/27/2015	42.89	56.14	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		4/28/2015	43.24	55.79	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		7/1/2015	42.04	56.99	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		8/13/2015	43.05	55.98	--	--	--	--	--	--	--	--	--	--	--
		9/2/2015	44.20	54.83	--	--	--	--	--	--	--	--	--	--	--
		10/8/2015	45.35	53.68	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/5/2016	46.63	52.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/16/2017	48.23	50.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		6/27/2017	45.16	53.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		9/27/2017	47.28	51.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
		9/21/2018	36.84	62.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/31/2018	48.11	50.92	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		3/22/2019	37.51	61.52	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019	39.37	59.66	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		11/6/2019	43.93	55.10	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	43.11	55.92	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	43.10	55.93	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		9/20/20	43.95	55.08	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		12/9/20	45.54	53.49	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		3/22/21	43.91	55.12	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		6/14/21	43.84	55.19	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/21/21	45.26	53.77	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		12/16/2021	44.68	54.35	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		7/12/2022	45.32	53.71	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/16/2022	47.29	51.74	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	47.75	51.28	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		3/21/2023	45.23	53.80	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-4	100.23														
TOS=unknown	100.25														
n BOS=84.18															
		3/4/2014	42.75	57.50	< 2.00	< 2.00	< 2.00	< 2.00	416	< 2.00	< 10.0	13.5	< 2.00	< 2.00	
		3/14/2014	60.08	40.17	3.10	< 2.00	< 2.00	< 2.00	545	< 2.00	19.8	24.9	< 2.00	< 2.00	
		4/7/2014	42.35	57.90	< 2.00	< 2.00	< 2.00	< 2.00	504	< 2.00	< 10.0	8.66 2e	< 2.00	< 2.00 2e	
		4/17/2014	61.92	38.33	< 2.00	< 2.00	< 2.00	< 2.00	514	< 2.00	11.6	12.4 2e	< 2.00	< 2.00 2e	
		5/2/2014	41.37	58.88	< 1.00	< 1.00	< 1.00	< 1.00	168	< 5.00	4.34	< 1.00 2d	< 1.00	--	--
		5/28/2014	40.09	60.16	< 1.00	< 1.00 2d	< 1.00 2d	< 1.00 2d	140	< 5.00	3.45	< 1.00 2d	< 1.00	--	--
		6/25/2014	41.24	59.01	< 1.00	< 1.00	< 1.00	< 1.00	116	< 5.00	3.41	< 1.00	< 1.00	--	--
		7/8/2014	41.94	58.31	< 1.00	< 1.00	< 1.00	< 1.00	0	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		8/5/2014	43.55	56.70	< 1.00	< 1.00	< 1.00	< 1.00	19.5	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		9/5/2014	44.74	55.51	< 1.00	< 1.00	< 1.00	< 1.00	251	< 5.00	8.31	< 1.00	< 1.00	--	--
		10/3/2014	45.88	54.37	< 1.00	< 1.00	< 1.00	< 1.00	186	5.98	7.49	< 1.00	< 1.00	--	--
		11/4/2014	45.35	54.90	< 1.00	< 1.00	< 1.00	< 1.00	61.9	< 5.00	1.56	< 1.00	< 1.00	--	--
		12/5/2014	47.11	53.14	< 1.00	< 1.00	< 1.00	< 1.00	157	< 5.00	4.42	< 1.00	< 1.00	--	--
		1/29/2015	46.89	53.36	< 1.00	< 1.00	< 1.00	< 1.00	225	< 5.00	5.48	< 1.00	< 1.00	--	--
		2/9/2015	46.82	53.43	< 1.00	< 1.00	< 1.00	< 1.00	184	< 5.00	4.62	< 1.00	< 1.00	--	--
		3/27/2015	45.04	55.21	< 1.00	< 1.00	< 1.00	< 1.00	245	< 5.00	6.83	< 1.00	< 1.00	--	--
		4/28/2015	45.25	55.00	< 1.00	< 1.00	< 1.00	< 1.00	0	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		5/29/2015	45.87	54.38	< 1.00	< 1.00	< 1.00	< 1.00	25	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		6/24/2015	44.75	55.50	1.53	< 1.00	< 1.00	< 1.00	388	6.50	14.2	< 1.00	< 1.00	--	--
		7/1/2015	44.15	56.10	1.73	< 1.00	< 1.00	< 1.00	468	5.97	17.9	< 1.00	< 1.00	--	--
		8/13/2015	44.99	55.26	< 1.00	< 1.00	< 1.00	< 1.00	172	< 5.00	4.91	< 1.00	< 1.00	--	--
		9/2/2015	46.13	54.12	< 1.00	< 1.00	< 1.00	< 1.00	278	6.56	8.13	< 1.00	< 1.00	--	--
		10/8/2015	47.42	52.83	< 1.00	< 1.00	< 1.00	< 1.00	336	15.9	8.09	< 1.00	< 1.00	--	--
		10/5/2016	48.58	51.67	ND	ND	ND	ND	17.6	ND	ND	ND	ND	ND	ND
		1/16/2017	50.09	50.16	ND	ND	ND	ND	27.7	ND	ND	ND	ND	ND	ND
		4/5/2017	49.75	50.50	ND	ND	ND	ND	463	ND	10.2	ND	ND		
		5/31/2017	46.53	53.72	ND	ND	ND	ND	441	ND	ND	ND	ND		
		6/27/2017	47.16	53.09	ND	ND	ND	ND	14.8	ND	ND	ND	ND	ND	ND
		8/24/2017	48.34	51.91	ND	ND	ND	ND	554	ND	15.10	ND	ND	--	--
		9/27/2017	49.2	51.05	ND	ND	ND	ND	348	ND	8.68	ND	ND	--	--
		9/21/2018	38.94	61.31	ND	ND	ND	ND	833	ND	15.60	ND	ND	ND	ND
		12/31/2018	50.01	50.24	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		3/22/2019	39.44	60.81	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019	41.16	59.09	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		11/6/2019	46.00	54.25	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	45.05	55.20	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	45.15	55.10	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		09/20/20	45.93	54.32	<5	<5	<5	<5	5.45	<50	<5	<5	<5	<500	<100
		12/09/20	47.55	52.70	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		03/22/21	45.33	54.92	<1	<1	<1	<1	311	<25	3.58	<1	<1	<40	330
		06/14/21	45.79	54.46	<1	<1	<1	<1	21.1	<25	<1	<1	<1	<40	<40
		09/21/21	47.32	52.93	<1	<1	<1	<1	9.23	<25	<1	<1	<1	<40	<40
		12/16/2021	47.69	52.56	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		7/12/2022	47.24	53.01	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/16/2022	49.18	51.07	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	49.81	50.44	<1	<1	<1	<1	5.35	<25	<1	<1	<1	<40	<40
		3/21/2023	47.44	52.81	<1	<1	<1	<1	28.20	<25	<1	<1	<1	<40	<40

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-5S	100.67														
TOS = 10'															
BOS = 85'															
		03/19/14	43.36	57.31	<1.00	<1.00	<1.00	<1.00	123	<5.00	5.42	<1.00	<1.00	--	--
		04/03/14	42.59	58.08	--	--	--	--	0	--	--	--	--	--	--
		04/17/14	42.41	58.26	--	--	--	--	0	--	--	--	--	--	--
		05/02/14	41.20	59.47	<1.00	<1.00	<1.00	<1.00	0	<5.00	<1.00	<1.00 2d	<1.00	--	--
		05/28/14	39.95	60.72	<1.00	<1.00 2d	<1.00 2d	<1.00 2d	80.2	<5.00	4.14	<1.00 2d	<1.00	--	--
		06/25/14	41.07	59.60	1.27	<1.00	<1.00	<1.00	189	<5.00	8.02	<1.00	<1.00	--	--
		07/08/14	39.76	60.91	<1.00	<1.00	<1.00	<1.00	30.5	<5.00	1.34	<1.00	<1.00	--	--
		08/05/14	43.31	57.36	3.50	<1.00	<1.00	<1.00	644	27.5	34.0	<1.00	<1.00	--	--
		09/05/14	44.61	56.06	<1.00	<1.00	<1.00	<1.00	30.5	<5.00	1.18	<1.00	<1.00	--	--
		10/03/14	45.73	54.94	12.4	<1.00	<1.00	<1.00	1,750	97.3	108	<1.00	<1.00	--	--
		11/04/14	45.20	55.47	2.40	<1.00	<1.00	<1.00	1,200	26.3	60.0	<1.00	<1.00	--	--
		12/05/14	46.99	53.68	1.71	<1.00	<1.00	<1.00	1,020	21.7	46.3	<1.00	<1.00	--	--
		01/29/15	45.72	54.95	1.53	<1.00	<1.00	<1.00	550	9.66	28.4	<1.00	<1.00	--	--
		02/09/15	45.81	54.86	<1.00	<1.00	<1.00	<1.00	0	<5.00	<1.00	<1.00	<1.00	--	--
		03/27/15	44.76	55.91	<1.00	<1.00	<1.00	<1.00	177	<5.00	10.1	<1.00	<1.00	--	--
		04/28/15	45.02	55.65	<1.00	<1.00	<1.00	<1.00	0	<5.00	<1.00	<1.00	<1.00	--	--
		05/29/15	45.59	55.08	<1.00	<1.00	<1.00	<1.00	6.58	<5.00 2e	<1.00	<1.00	<1.00	--	--
		06/24/15	44.53	56.14	<1.00	<1.00	<1.00	<1.00	155	<5.00	8.10	<1.00	<1.00	--	--
		07/01/15	43.98	56.69	<1.00	<1.00	<1.00	<1.00	48.5	<5.00	2.46	<1.00	<1.00	--	--
		8/13/2015	44.76	55.91	<2.00	<2.00	<2.00	<2.00	53.6	<10.0	<2.00	<2.00	<2.00	--	--
		09/02/15	45.91	54.76	3.04	<1.00	<1.00	<1.00	930	25.9	40.1	<1.00	<1.00	--	--
		10/08/15	47.25	53.42	5.16	<1.00	<1.00	<1.00	1,200	86.2	46.6	1.06	<1.00	--	--
		10/5/2016	48.41	52.26	ND	ND	ND	ND	641	ND	19.8	ND	ND	ND	710
		1/16/2017	49.92	50.75	ND	ND	ND	ND	1,035	ND	75.2	ND	ND	ND	1270
		4/5/2017	49.87	50.80	ND	ND	ND	ND	2,480	190	ND	ND	ND	ND	ND
		6/27/2017	47.05	53.62	ND	ND	ND	ND	796	ND	ND	ND	ND	ND	ND
		8/24/2017	48.23	52.44	ND	ND	ND	ND	1,600	ND	56.9	ND	ND	--	--
		9/27/2017	49.05	51.62	ND	ND	ND	ND	2,560	ND	103	ND	ND	--	--
		9/21/2018	38.86	61.81	ND	ND	ND	ND	0	ND	103	ND	ND	ND	ND
		12/31/2018	48.94	51.73	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		3/22/2019	39.23	61.44	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019	41.02	59.65	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		11/6/2019	45.80	54.87	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	44.91	55.76	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	45.00	55.67	<5	<5	<5	<5	8.68	<50	<5	<5	<5	<500	<100
		09/20/20	45.73	54.94	<5	<5	<5	<5	24.7	<50	<5	<5	<5	<500	<100
		12/09/20	47.40	53.27	<1	<1	<1	<1	9.27	<25	<1	<1	<1	<500	<100
		03/22/21	45.74	54.93	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		06/14/21	45.61	55.06	<1	<1	<1	<1	70.9	<25	3.49	<1	<1	<40	78
		09/21/21	47.20	53.47	<1	<1	<1	<1	7.75	<25	<1	<1	<1	<40	<40
		12/16/2021	46.53	54.14	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		7/12/2022	47.10	53.57	<1	<1	<1	<1	14.0	<25	<1	<1	<1	<40	<40
		9/16/2022	49.07	51.60	<1	<1	<1	<1	4.16	<25	<1	<1	<1	<40	<40
		11/16/2022	49.66	51.01	<1	<1	<1	<1	7.29	<25	<1	<1	<1	<40	<40
		3/21/2023	47.13	53.54	1.31	<1	<1	<1	22.20	<25	<1	<1	<1	<40	<40

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-5D TOS=114' BOS=139'	100.87														
		03/19/14	44.05	56.82	<1.00	<1.00	<1.00	<1.00	1.02	<5.00	<1.00	<1.00	<1.00	--	--
		04/03/14	43.07	57.80	--	--	--	--	--	--	--	--	--	--	--
		04/17/14	42.97	57.90	--	--	--	--	--	--	--	--	--	--	--
		05/02/14	39.93	60.94	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		05/28/14	40.44	60.43	<1.00	<1.00 2d	<1.00 2d	<1.00 2d	6.13	<5.00	<1.00	<1.00 2d	<1.00	--	--
		06/25/14	41.30	59.57	<1.00	<1.00	<1.00	<1.00	127	<5.00	2.31	<1.00	<1.00	--	--
		07/08/14	42.32	58.55	<1.00	<1.00	<1.00	<1.00	5.6	<5.00	<1.00	<1.00	<1.00	--	--
		08/05/14	43.85	57.02	<1.00	<1.00	<1.00	<1.00	3.40	<5.00	<1.00	<1.00	<1.00	--	--
		09/05/14	44.98	55.89	<1.00	<1.00	<1.00	<1.00	3.03	<5.00	<1.00	<1.00	<1.00	--	--
		10/03/14	46.28	54.59	<1.00	<1.00	<1.00	<1.00	1.61	<5.00	<1.00	<1.00	<1.00	--	--
		11/04/14	45.79	55.08	<1.00	<1.00	<1.00	<1.00	4.65	<5.00	<1.00	<1.00	<1.00	--	--
		12/05/14	47.48	53.39	<1.00	<1.00	<1.00	<1.00	38.6	<5.00	<1.00	<1.00	<1.00	--	--
		01/29/15	45.61	55.26	1.60	<1.00	<1.00	<1.00	724	9.20	38.6	<1.00	<1.00	--	--
		02/09/15	45.64	55.23	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		03/27/15	44.69	56.18	<1.00	<1.00	<1.00	<1.00	165	<5.00	8.91	<1.00	<1.00	--	--
		04/28/15	45.61	55.26	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		05/29/15	46.20	54.67	<1.00	<1.00	<1.00	<1.00	1.25	<5.00 2e	<1.00	<1.00	<1.00	--	--
		06/24/15	45.06	55.81	<1.00	<1.00	<1.00	<1.00	2.42	<5.00	<1.00	<1.00	<1.00	--	--
		07/01/15	44.54	56.33	<1.00	<1.00	<1.00	<1.00	3.82	<5.00	<1.00	<1.00	<1.00	--	--
		08/13/15	44.32	56.55	<1.00	<1.00	<1.00	<1.00	3.08	<5.00	<1.00	<1.00	<1.00	--	--
		09/02/15	46.50	54.37	<1.00	<1.00	<1.00	<1.00	2.24	<5.00	<1.00	<1.00	<1.00	--	--
		10/08/15	47.82	53.05	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		10/5/2016	48.91	51.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/16/2017	50.38	50.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		5/31/2017	47.23	53.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		6/27/2017	47.58	53.29	ND	ND	ND	ND	5.62	ND	ND	ND	ND	ND	ND
		9/27/2017	49.66	51.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
		9/21/2018	39.28	61.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/31/2018	49.90	50.97	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<100
		3/22/2019	39.82	61.05	<5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS
		6/20/2019	41.47	59.40	<5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS
		11/6/2019	46.34	54.53	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<100
		4/8/2020	45.45	55.42	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<100
		6/17/2020	45.55	55.32	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<100
		09/20/20	46.24	54.63	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<100
		12/09/20	47.92	52.95	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		03/22/21	45.87	55.00	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		06/14/21	46.16	54.71	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		09/21/21	47.74	53.13	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		12/16/2021	48.12	52.75	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		7/12/2022	47.66	53.21	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/16/2022	49.46	51.41	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	50.07	50.80	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	47.66	53.21	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-6D TOS=116.5 BOS=136.5	100.55														
		04/17/14	38.40	62.15	--	--	--	--	--	--	--	--	--	--	--
		05/02/14	37.45	63.10	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		07/08/14	38.42	62.13	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/03/14	42.41	58.14	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		01/29/15	42.06	58.49	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		02/09/15	41.99	58.56	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		03/27/15	41.00	59.55	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		04/28/15	41.50	59.05	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		07/01/15	41.50	59.05	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		08/13/15	41.29	59.26	--	--	--	--	--	--	--	--	--	--	--
		09/02/15	43.11	57.44	--	--	--	--	--	--	--	--	--	--	--
		10/08/15	43.50	57.05	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/5/2016	44.82	55.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/16/2017	46.18	54.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		6/27/2017	43.26	57.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		9/27/2017	45.40	55.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
		9/21/2018	35.32	65.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/31/2018	46.02	54.53	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		3/22/2019	36.04	64.51	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019	37.88	62.67	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		11/6/2019	42.22	58.33	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	41.40	59.15	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	41.38	59.17	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		09/20/20	42.05	58.50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		12/09/20	43.71	56.84	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		03/22/21	42.25	58.30	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		06/14/21	41.95	58.60	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		09/21/21	43.59	56.96	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		12/16/2021	43.94	56.61	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		7/12/2022	43.53	57.02	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/16/2022	45.25	55.30	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	45.90	54.65	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		3/21/2023	43.35	57.20	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-7D TOS=118' BOS=138'	101.31														
		03/19/14	44.02	57.29	<1.00	<1.00	<1.00	<1.00	37.90	<5.00	2.34	<1.00	<1.00	--	--
		04/03/14	43.10	58.21	--	--	--	--	0.00	--	--	--	--	--	--
		04/17/14	42.91	58.40	--	--	--	--	0.00	--	--	--	--	--	--
		05/02/14	41.76	59.55	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		05/28/14	40.59	60.72	<1.00	<1.00	<1.00	<1.00	3.39	<5.00	<1.00	<1.00	<1.00	--	--
		06/25/14	41.80	59.51	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		07/08/14	43.46	57.85	<1.00	<1.00	<1.00	<1.00	5.24	<5.00	<1.00	<1.00	<1.00	--	--
		08/05/14	43.90	57.41	<1.00	<1.00	<1.00	<1.00	4.13	<5.00	<1.00	<1.00	<1.00	--	--
		09/05/14	45.18	56.13	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		10/03/14	45.56	55.75	<1.00	<1.00	<1.00	<1.00	6.32	<5.00	<1.00	<1.00	<1.00	--	--
		11/04/14	45.08	56.23	<1.00	<1.00	<1.00	<1.00	115	<5.00	5.69	<1.00	<1.00	--	--
		12/05/14	47.60	53.71	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		01/29/15	46.32	54.99	18.9	<1.00	<1.00	<1.00	1610	50.1	122	1.72	<1.00	--	--
		02/09/15	46.08	55.23	<1.00	<1.00	<1.00	<1.00	1.72	<5.00	<1.00	<1.00	<1.00	--	--
		03/27/15	45.49	55.82	<1.00	<1.00	<1.00	<1.00	33.20	<5.00	1.79	<1.00	<1.00	--	--
		04/28/15	45.78	55.53	<1.00	<1.00	<1.00	<1.00	51.50	<5.00	3.70	<1.00	<1.00	--	--
		05/29/15	46.32	54.99	<1.00	<1.00	<1.00	<1.00	77.50	<5.00	5.23	<1.00	<1.00	--	--
		06/24/15	45.17	56.14	<1.00	<1.00	<1.00	<1.00	219	<5.00	16.6	<1.00	<1.00	--	--
		07/01/15	44.65	56.66	<1.00	<1.00	<1.00	<1.00	610	7.81	47.1	<1.00	<1.00	--	--
		8/13/2015	45.47	55.84	<1.00	<1.00	<1.00	<1.00	578	6.48	32.3	<1.00	<1.00	--	--
		09/02/15	46.62	54.69	<1.00	<1.00	<1.00	<1.00	380	5.58	11.9	<1.00	<1.00	--	--
		10/08/15	48.92	52.39	<1.00	<1.00	<1.00	<1.00	170	11.0	10.2	<1.00	<1.00	--	--
		10/5/2016	49.10	52.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/16/2017	50.64	50.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		6/27/2017	47.82	53.49	ND	ND	ND	ND	130	ND	6.09	ND	ND	ND	210
		9/27/2017	50.21	51.10	ND	ND	ND	ND	208	ND	13.9	ND	ND	--	--
		9/21/2018	39.43	61.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/31/2018	50.26	51.05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<100
		3/22/2019	39.97	61.34	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019													
		11/6/2019	46.44	54.87	<5	<5	<5	<5	47.4	<50	<5	<5	<5	<500	<100
		4/8/2020	45.57	55.74	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	45.65	55.66	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		09/20/20	46.40	54.91	<5	<5	<5	<5	221	104	<5	<5	<5	<500	<100
		12/09/20	48.04	53.27	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		03/21/21	46.13	55.18	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		06/14/21	46.31	55.00	<1	<1	<1	<1	1.51	<25	<1	<1	<1	<40	<40
		9/21/2021	47.84	53.47	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		12/16/2021	48.18	53.13	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		7/12/2022	48.80	52.51	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/16/2022	48.80	52.51	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	50.33	50.98	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		3/21/2023	44.75	56.56	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20.00	NG	NG	NG	NG	47	47
MW-8D TOS=114' BOS=134'	101.37														
		3/19/2014	43.88	57.49	< 1.00	< 1.00	< 1.00	< 1.00	3.78	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		4/3/2014	42.97	58.40	--	--	--	--	--	--	--	--	--	--	--
		4/17/2014	42.74	58.63	--	--	--	--	--	--	--	--	--	--	--
		5/2/2014	41.67	59.70	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		5/28/2014	40.51	60.86	< 1.00	< 1.00	< 1.00	< 1.00	30.40	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		6/25/2014	41.71	59.66	< 1.00	< 1.00	< 1.00	< 1.00	549.00	< 5.00	36.1	< 1.00	< 1.00	--	--
		7/8/2014	42.39	58.98	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		8/5/2014	43.95	57.42	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/3/2014	46.43	54.94	< 1.00	< 1.00	< 1.00	< 1.00	963	13.50	96.2	< 1.00	< 1.00	--	--
		1/29/2015	46.79	54.58	6.23	< 1.00	< 1.00	< 1.00	1450	38.80	113.0	1.57	< 1.00	--	--
		2/9/2015	45.99	55.38	6.41	< 1.00	< 1.00	< 1.00	1340	36.50	89.6	1.46	< 1.00	--	--
		3/27/2015	45.28	56.09	1.86	< 1.00	< 1.00	< 1.00	1380	36.60	119.0	< 1.00	< 1.00	--	--
		4/28/2015	45.62	55.75	1.56	< 1.00	< 1.00	< 1.00	1260	36.80	103.0	1.17	< 1.00	--	--
		7/2/2015	44.51	56.86	< 1.00	< 1.00	< 1.00	< 1.00	796	26.30	77.5	< 1.00	< 1.00	--	--
		8/13/2015	45.39	55.98	< 1.00	< 1.00	< 1.00	< 1.00	1010	12.70	77.5	< 1.00	< 1.00	--	--
		9/2/2015	46.53	54.84	1.54	< 1.00	< 1.00	< 1.00	590	36.80	83.1	< 1.00	< 1.00	--	--
		10/8/2015	47.74	53.63	2.44	< 1.00	< 1.00	< 1.00	1200	63.90	56.8	< 1.00	< 1.00	--	--
		10/5/2016	48.95	52.42	ND	ND	ND	ND	1200	100.00	72.2	ND	ND	ND	1,375
		1/16/2017	50.48	50.89	ND	ND	ND	ND	356	ND	ND	ND	ND	ND	ND
		4/5/2017	50.09	51.28	ND	ND	ND	ND	920	ND	58.7	ND	ND		
		5/31/2017	47.10	54.27	ND	ND	ND	ND	ND	ND	ND	ND	ND		
		6/27/2017	47.53	53.84	ND	ND	ND	ND	772	ND	61.5	ND	ND	ND	920
		8/24/2017	48.72	52.65	ND	38.6	ND	24.36	243	ND	16.2	ND	ND	--	--
		9/27/2017	49.63	51.74	5.94	6.57	ND	ND	534	ND	40.1	ND	ND	--	--
		9/21/2018	39.37	62.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/31/2018	50.21	51.16	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		3/22/2019	39.95	61.42	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019	41.73	59.64	<5	<5	<5	<5	29.40	<50	<5	<5	<5	NS	NS
		11/6/2019	46.39	54.98	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	51.90	49.47	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	45.66	55.71	<5	<5	<5	<5	37.90	<50	<5	<5	<5	<500	<100
		9/20/2020	46.34	55.03	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		12/9/2020	47.94	53.43	<1	<1	<1	<1	164	<25	11.3	<1	<1	<500	<100
		3/22/2021	45.27	56.10	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		6/14/2021	46.19	55.18	<1	<1	<1	<1	298	<25	18.7	<1	<1	<40	330
		9/21/2021	47.75	53.62	<1	<1	<1	<1	262	<25	18.5	<1	<1	<40	290
		12/16/2021	48.10	53.27	<1	<1	<1	<1	171	<25	9.6	<1	<1	<40	190
		7/12/2022	47.69	53.68	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/16/2022	49.78	51.59	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	50.23	51.14	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		3/21/2023	47.43	53.94	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

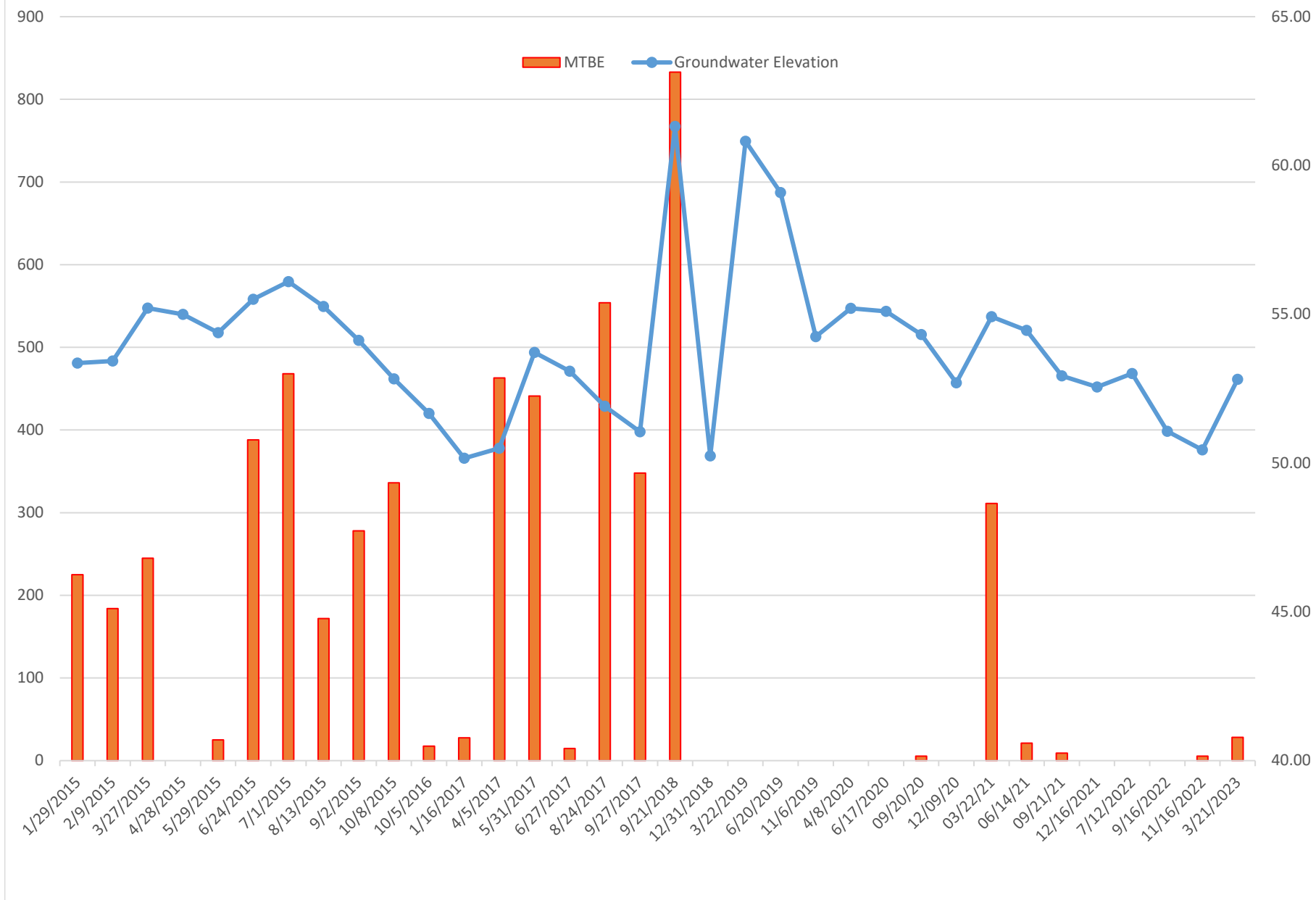
Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-9D	100.57														
TOS=119'															
BOS=139'															
		04/03/14	42.67	57.90	--	--	--	--	--	--	--	--	--	--	--
		04/17/14	42.31	58.26	--	--	--	--	--	--	--	--	--	--	--
		05/02/14	40.80	59.77	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		07/08/14	42.07	58.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/03/14	46.07	54.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		01/29/15	45.12	55.45	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		02/09/15	45.08	55.49	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		03/27/15	44.21	56.36	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		04/28/15	45.38	55.19	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		07/01/15	44.13	56.44	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		08/13/15	45.01	55.56	--	--	--	--	--	--	--	--	--	--	--
		09/02/15	46.02	54.55	--	--	--	--	--	--	--	--	--	--	--
		10/08/15	47.42	53.15	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/5/2016	48.68	51.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/16/2017	50.20	50.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		6/27/2017	47.26	53.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		9/27/2017	49.31	51.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
		9/21/2018	38.94	61.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/31/2018	49.95	50.62	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		3/22/2019	39.67	60.90	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		6/20/2019	41.39	59.18	<5	<5	<5	<5	<5	<50	<5	<5	<5	NS	NS
		11/6/2019	45.69	54.88	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	45.14	55.43	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	45.19	55.38	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		09/20/20	46.01	54.56	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		12/09/20	47.60	52.97	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		03/22/21	45.96	54.61	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		06/14/21	45.91	54.66	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		09/21/21	47.37	53.20	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		12/16/2021	47.77	52.80	<1	1.5	<1	<1	8.84	<25	<1	<1	<1	<40	<40
		7/12/2022	47.38	53.19	<1	<1	<1	<1	14.1	<25	<1	<1	<1	<40	<40
		9/16/2022	49.38	51.19	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	50.11	50.46	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		3/21/2023	47.30	53.27	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

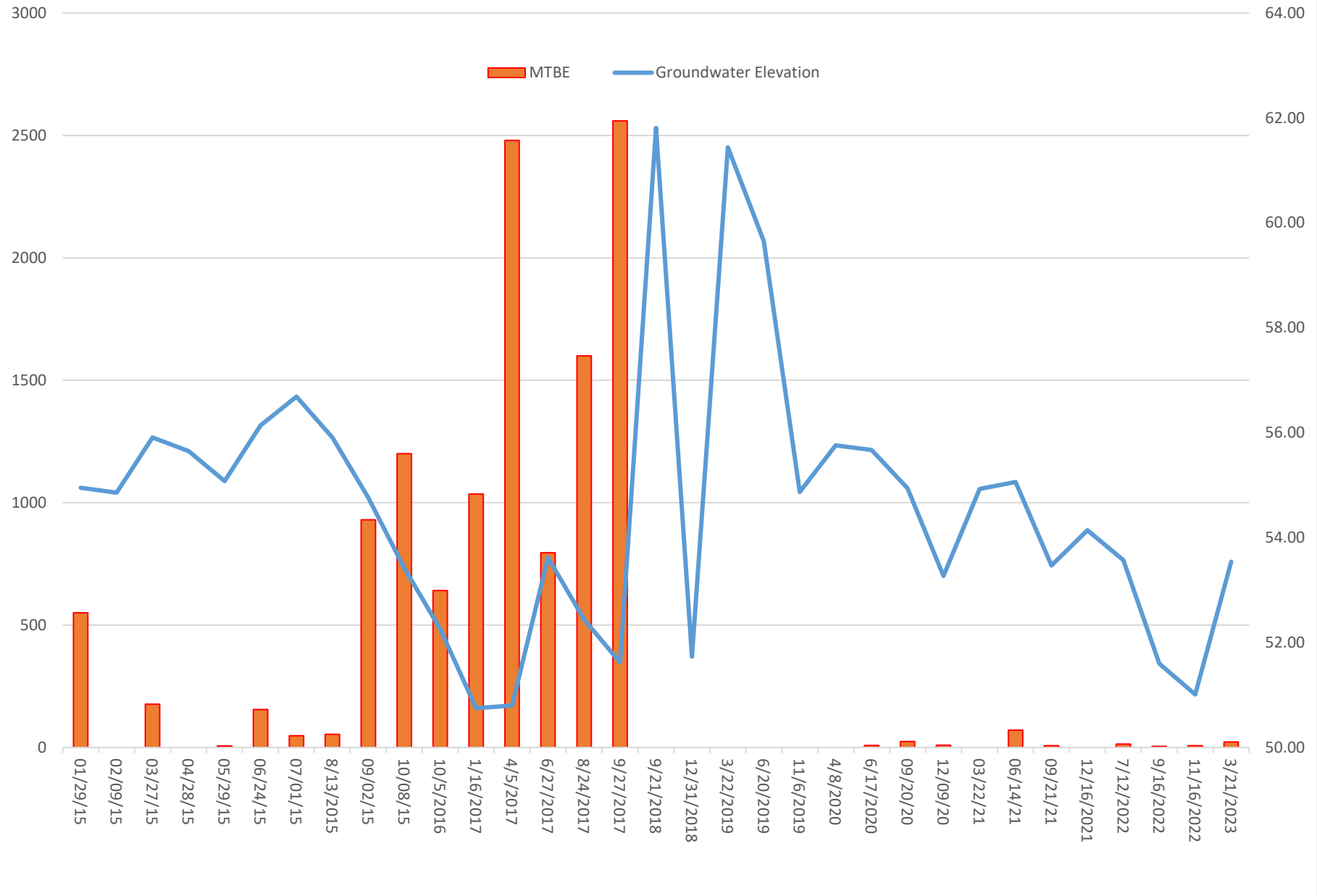
Groundwater Analytical Data Summary
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Analytes					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
PW-1	101.19														
6" steel casing to 68'															
4" TOS=13'															
4" BOS=73'															
4" TOS=83'															
4" BOS=113'															
6" open borehole=125'															
		01/24/14	45.92	55.27	1.24	< 1.00	< 1.00	< 1.00	153	< 5.00	12.4	< 1.00	< 1.00	--	--
		05/01/14	41.96	59.23	< 1.00	< 1.00	< 1.00	< 1.00	32.8	< 5.00	2.06	< 1.00 2d	< 1.00	--	--
		07/08/14	41.69	59.50	< 1.00	< 1.00	< 1.00	< 1.00	59.30	< 5.00	2.32	< 1.00	< 1.00	--	--
		09/05/14	44.27	56.92	4.69	< 1.00	< 1.00	< 1.00	993	9.67	84.4	< 1.00	< 1.00	--	--
		10/03/14	45.56	55.63	< 1.00	< 1.00	< 1.00	< 1.00	21	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		11/04/14	46.19	55.00	9.36	< 1.00	< 1.00	< 1.00	1,160	50.9	100	1.11	< 1.00	--	--
		12/05/14	46.48	54.71	16.4	< 1.00	< 1.00	< 1.00	1,330	75.9	116	1.06	< 1.00	--	--
		1/29/2015	45.80	55.39	19.0	< 1.00	< 1.00	< 1.00	1,660	54.3	120	1.73	< 1.00	--	--
		2/9/2015	44.97	56.22	17.7	< 1.00	< 1.00	< 1.00	1,520	59.4	112	< 1.00	< 1.00	--	--
		3/27/2015	44.25	56.94	10.6	< 1.00	< 1.00	< 1.00	1,560	83.2	116	1.55	< 1.00	--	--
		4/28/2015	44.11	57.08	< 1.00	< 1.00	< 1.00	< 1.00	992	18.5	83.1	< 1.00	< 1.00	--	--
		5/29/2015	45.18	56.01	< 1.00	< 1.00	< 1.00	< 1.00	944	143.2e	71.7	< 1.00	< 1.00	--	--
		6/24/2015	45.08	56.11	1.43	< 1.00	< 1.00	< 1.00	682	20.8	60.7	< 1.00	< 1.00	--	--
		7/2/2015	43.17	58.02	6.49	< 1.00	< 1.00	< 1.00	1,130	44.8	112	1.13	< 1.00	--	--
		10/21/2015	47.89	53.30	2.36	< 1.00	< 1.00	< 1.00	1,340	88.0	102	1.13	< 1.00	--	--
		10/5/2016	47.87	53.32	ND	ND	ND	ND	136	ND	5.31	ND	ND	ND	145
		1/16/2017	49.46	51.73	ND	ND	ND	ND	ND	ND	5.31	ND	ND	ND	ND
		4/5/2017	48.99	52.20	ND	ND	ND	ND	2,280	190	178	ND	ND		
		5/31/2017	47.70	53.49	ND	22.6	ND	41.8	899	ND	57.4	ND	ND	--	--
		6/27/2017	46.57	54.62	ND	ND	ND	ND	967	ND	166	ND	ND	ND	1,430
		8/24/2017	47.83	53.36	ND	ND	ND	ND	61.70	ND	ND	ND	ND	--	--
		9/27/2017	48.33	52.86	ND	ND	ND	ND	1,550	ND	112	ND	ND	--	--
		9/21/18	NA		Damaged	Well Head	Man Way	Not	Sampled						
		12/31/18	NA		Damaged	Well Head	Man Way	Not	Sampled						
		3/22/2019	NA		<5	<5	<5	<5	12.7	<50	<5	<5	<5	NS	NS
		6/20/2019	40.86	60.33	<5	<5	<5	<5	7.60	<50	<5	<5	<5	NS	NS
		11/6/2019	45.37	55.82	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		4/8/2020	44.48	56.71	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		6/17/2020	44.55	56.64	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		09/20/20	45.38	55.81	<5	<5	<5	<5	<5	<50	<5	<5	<5	<500	<100
		12/09/20	46.88	54.31	<1	<1	<1	<1	<1	<25	<1	<1	<1	<500	<100
		03/22/21	45.17	56.02	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		06/14/21	45.11	56.08	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		09/21/21	46.70	54.49	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		12/16/2021	47.02	54.17	<1	1.5	<1	<1	60.2	<25	4.59	<1	<1	<40	66
		7/12/2022	47.02	54.17	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		9/16/2022	48.34	52.85	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		11/16/2022	49.01	52.18	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40
		3/21/2023	46.33	54.86	<1	<1	<1	<1	<1	<25	<1	<1	<1	<40	<40

MW-4 MTBE Concentrations /Groundwater Elevation



MW-5s GW Elevation/ MTBE Concentration



Tevis / Winfield BP
1631 West Liberty Rd
Sykesville, MD

Well	Date	Benzene	Toluene	Ethyl- benzene	Xylenes, Total	MTBE	TBA	TAME	DIPE	ETBE
	MDE GNCS, Type I and II Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG
PW-1A	5/18/2006	< 0.1	0.6	0.1 J	< 0.2	3.1	--	--	--	--
TOS=178', TD=305'	7/13/2006	< 0.1	< 0.1	< 0.1	< 0.2	2.2	--	--	--	--
	11/10/2007	< 0.1	< 0.1	< 0.1	< 0.2	1.0	< 5	< 0.1	< 0.1	< 0.1
	1/30/2008	< 0.1	0.2 J	< 0.1	< 0.2	1.7	< 5	< 0.1	< 0.1	< 0.1
	4/30/2008	< 0.1	< 0.1	< 0.1	< 0.2	1.9	< 5	< 0.1	< 0.1	< 0.1
	7/15/2008	< 0.1	< 0.1	< 0.1	< 0.2	1.7	< 5	< 0.1	< 0.1	< 0.1
	10/22/2008	< 0.5	< 0.5	< 0.5	< 0.5	1.49	< 2.5	< 0.5	< 0.5	< 0.5
	4/2/2009	< 0.5	< 0.5	< 0.5	< 0.5	1.93	< 2.5	< 0.5	< 0.5	< 0.5
	4/27/2009	< 0.5	< 0.5	< 0.5	< 0.5	1.91	24.5	< 0.5	< 0.5	< 0.5
	7/20/2009	< 0.5	< 0.5	< 0.5	< 0.5	1.70	21.4	< 0.5	< 0.5	< 0.5
	10/20/2009	< 0.5	< 0.5	< 0.5	< 0.5	1.12	15.7	< 0.5	< 0.5	< 0.5
	1/20/2010	< 0.5	0.64	< 0.5	< 0.5	1.35	< 2.5	< 0.5	< 0.5	< 0.5
	7/16/2010	< 0.5	< 0.5	< 0.5	< 0.5	1.97	25.3	< 0.5	< 0.5	< 0.5
	11/10/2010	< 0.5	< 0.5	< 0.5	< 1.0	1.78	17.7	< 0.5	< 0.5	< 0.5
	11/2/2011	< 0.5	< 0.5	< 0.5	< 1.0	1.92	12.0	< 0.5	< 0.5	< 0.5
	7/26/2011	< 0.5	< 0.5	< 0.5	< 1.0	2.85	29.7	< 0.5	< 0.5	< 0.5
	1/12/2012	< 0.500	< 0.500	< 0.500	< 1.00	3.95	19.3	< 0.500	< 0.500	< 0.500
	5/7/2012	< 0.500	< 0.500	< 0.500	< 1.00	5.00	16.6	< 0.500	< 0.500	< 0.500
	1/22/2013	< 0.500	< 0.500	< 0.500	< 1.00	2.23	38.8	0.840	< 0.500	< 0.500
	7/24/2013	< 0.500	< 0.500	< 0.500	< 1.00	9.00	21.7	< 0.500	< 0.500	< 0.500
	2/11/2014	< 0.500	< 0.500	< 0.500	< 1.00	0.66	< 2.50	< 0.500	< 0.500	< 0.500
	7/8/2014	< 0.500	< 0.500	< 0.500	< 1.00	1.34	< 2.50	< 0.500	< 0.500	< 0.500
	1/29/2015	< 0.500	< 0.500	< 0.500	< 1.00	1.22	< 2.50	< 0.500	< 0.500	< 0.500
	7/1/2015	< 0.500	< 0.500	< 0.500	< 1.00	5.86	< 2.50	< 0.500	< 0.500	< 0.500
	1/16/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/31/2018	< 0.50	< 0.50	< 0.50	< 0.50	5.86	< 10.0	< 0.50	< 0.50	< 0.50
	3/22/2019	< 0.50	< 0.50	< 0.50	< 0.50	0.77	< 10.0	< 0.50	< 0.50	< 0.50
	6/20/2019	< 0.50	< 0.50	< 0.50	< 0.50	3.61	< 10.0	< 0.50	< 0.50	< 0.50
	11/6/2019	< 0.50	< 0.50	< 0.50	< 0.50	5.36	< 10.0	< 0.50	< 0.50	< 0.50
	4/8/2020	< 0.50	< 0.50	< 0.50	< 0.50	4.16	< 10.0	< 0.50	< 0.50	< 0.50
	6/17/2020	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 10.0	< 0.50	< 0.50	< 0.50
	12/9/2020	< 0.50	< 0.50	< 0.50	< 0.50	4.16	< 10.0	< 0.50	< 0.50	< 0.50
	3/22/2021	< 0.50	< 0.50	< 0.50	< 0.50	5.24	< 10.0	< 0.50	< 0.50	< 0.50
	6/14/2021	< 0.50	< 0.50	< 0.50	< 0.50	4.71	< 10.0	< 0.50	< 0.50	< 0.50
	9/21/2021	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 10.0	< 0.50	< 0.50	< 0.50
	12/16/2021	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 10.0	< 0.50	< 0.50	< 0.50
	7/12/2022	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 10.0	< 0.50	< 0.50	< 0.50
	9/16/2022	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 10.0	< 0.50	< 0.50	< 0.50
	11/16/2022	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 10.0	< 0.50	< 0.50	< 0.50
	3/21/2023	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 10.0	< 0.50	< 0.50	< 0.50

Appendix C
Report of Analysis & Chain of Custody Record

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-1	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A038

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-1	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A038

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%		121	EPA 8260
Dibromofluoromethane	%		112	EPA 8260
TFT	%		119	EPA 8015B
Toluene-d8	%		86	EPA 8260
Bromofluorobenzene	%		97	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-2	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A039

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-2	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A039

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	125	EPA 8260
Dibromofluoromethane		%	114	EPA 8260
TFT		%	125	EPA 8015B
Toluene-d8		%	87	EPA 8260
Bromofluorobenzene		%	100	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A040

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A040

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	124	EPA 8260
Dibromofluoromethane	%	114	EPA 8260
TFT	%	127	EPA 8015B
Toluene-d8	%	87	EPA 8260
Bromofluorobenzene	%	102	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-4	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A041

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	28.2	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	3.84	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-4	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A041

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	130	EPA 8260
Dibromofluoromethane		%	117	EPA 8260
TFT		%	124	EPA 8015B
Toluene-d8		%	88	EPA 8260
Bromofluorobenzene		%	100	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-5S	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A042

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	22.2	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	4.49	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	1.31	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-5S	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A042

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	128	EPA 8260
Dibromofluoromethane		%	116	EPA 8260
TFT		%	122	EPA 8015B
Toluene-d8		%	86	EPA 8260
Bromofluorobenzene		%	103	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-5D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A043

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-5D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A043

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	130	EPA 8260
Dibromofluoromethane	%	116	EPA 8260
TFT	%	122	EPA 8015B
Toluene-d8	%	88	EPA 8260
Bromofluorobenzene	%	105	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-6D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A044

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-6D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A044

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	131	EPA 8260
Dibromofluoromethane		%	116	EPA 8260
TFT		%	123	EPA 8015B
Toluene-d8		%	88	EPA 8260
Bromofluorobenzene		%	102	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-7D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A045

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-7D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A045

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%		135	EPA 8260
Dibromofluoromethane	%		122	EPA 8260
TFT	%		123	EPA 8015B
Toluene-d8	%		88	EPA 8260
Bromofluorobenzene	%		105	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-8D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A046

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-8D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A046

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	134	EPA 8260
Dibromofluoromethane		%	119	EPA 8260
TFT		%	123	EPA 8015B
Toluene-d8		%	89	EPA 8260
Bromofluorobenzene		%	105	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-9D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A047

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-9D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A047

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	133	EPA 8260
Dibromofluoromethane		%	120	EPA 8260
TFT		%	125	EPA 8015B
Toluene-d8		%	88	EPA 8260
Bromofluorobenzene		%	101	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	PW-1	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A048

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	PW-1	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	3/22/2023	Analyst:	MM
Analysis Date:	3/22/2023	Lab File:	32223A048

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	132	EPA 8260
Dibromofluoromethane		%	117	EPA 8260
TFT		%	122	EPA 8015B
Toluene-d8		%	87	EPA 8260
Bromofluorobenzene		%	102	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	PW-1A	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	3/28/2023	Lab File:	32823A007

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	PW-1A	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	3/28/2023	Lab File:	32823A007

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	77	EPA 524.2
Dibromofluoromethane	%	95	EPA 524.2
Toluene-d8	%	89	EPA 524.2
Bromofluorobenzene	%	94	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	3/28/2023	Lab File:	32823A006

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	3/21/2023	Client Telephone:	
Date Received:	3/22/2023	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	3/28/2023	Lab File:	32823A006

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	77	EPA 524.2
Dibromofluoromethane	%	95	EPA 524.2
Toluene-d8	%	88	EPA 524.2
Bromofluorobenzene	%	96	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207
 Phone: 410-939-5550 Fax: 410-939-5552
 www.AECEnviro.com

Chain of Custody Record

Client: Tevis		Project Name: Winfield BP				SDG#				
Address:		Project Location:				Preservatives				
		1631 West Liberty Rd Sykesville, MD				1:1 HCL				
Contact: Todd Staub		Email:				Requested Analysis				Observation
Sample By:		Receive Completed Report Via (Circle One) U.S. Mail Email Fax				8260	8015			
	Sample #	Sample ID	Date	Time	Matrix	pH	DRO	GRO		
	1	MW-1	3/21/23							
	2	MW-2								
	3	MW-3								
	4	MW-4								
	5	MW-5s								
	6	MW-5d								
	7	MW-6d								
	8	MW-7d								
	9	MW-8d								
	10	MW-9d								
Relinquished/Received By Signature			Date	Time	Delivery Method	Lab Use Only				
Relinquished By: <i>Nay AR</i>						Temp of Cooler				
Received By: <i>Nay AR</i>						49°C				
Relinquished By: <i>[Signature]</i>			3/22/23			Ice Present (Y/N) <input checked="" type="radio"/>				
Received By: <i>[Signature]</i>						Custody Seal (Y/N) <input checked="" type="radio"/>				
Relinquished By:						Date of Extraction 3/22/23				
Received By:										
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other										
Special Instructions / Comments / QC Requirements:						Turn Around Time: <input checked="" type="radio"/> 1 Day <input type="radio"/> 2 Day <input type="radio"/> 3 Day <input type="radio"/> Other				

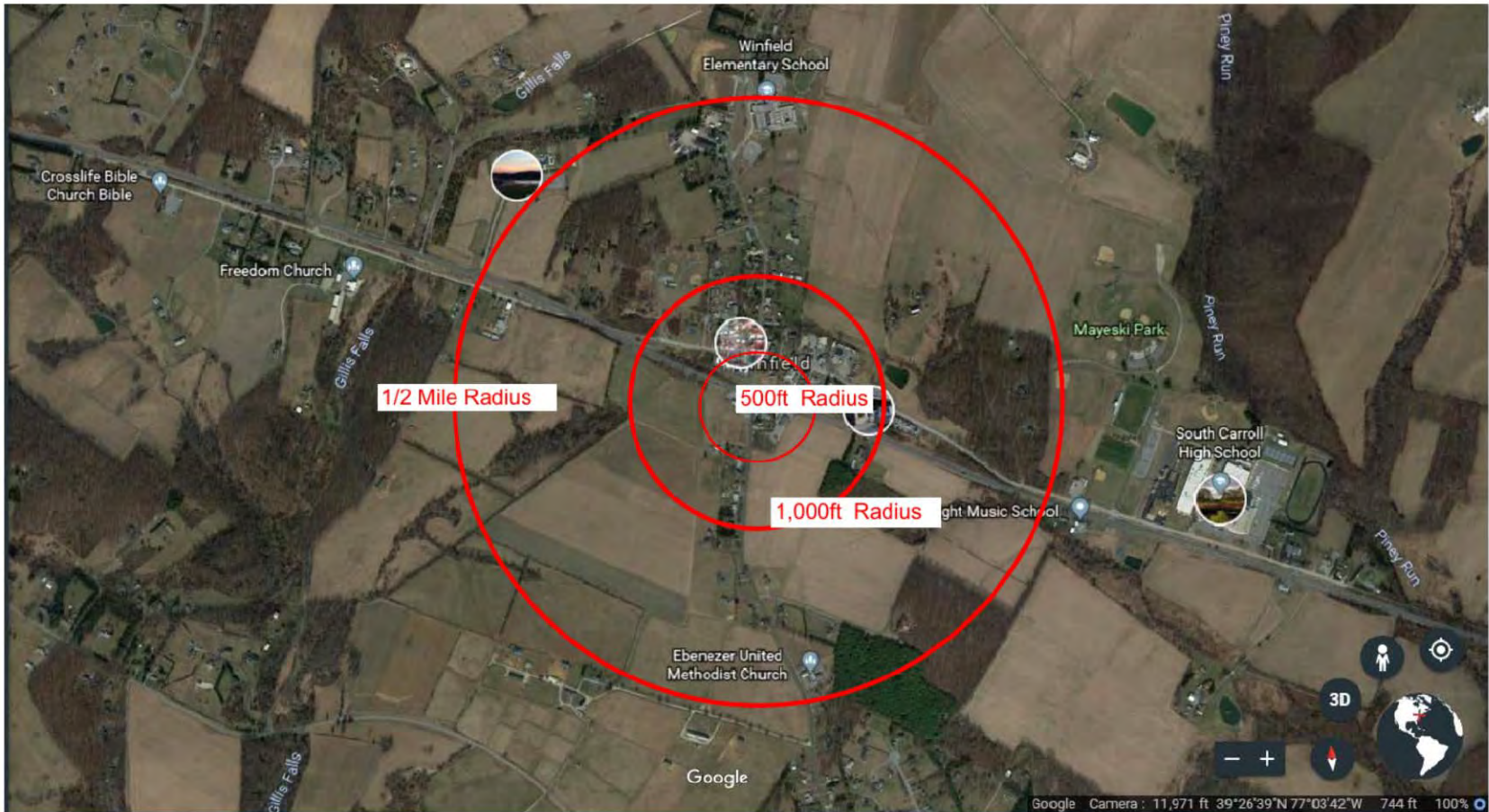
ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207
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 www.AECEnviro.com

Chain of Custody Record

Client: Tevis			Project Name: Winfield BP				SDG#					
Address:			Project Location:				Preservatives					
			1631 West Liberty Rd Sykesville, MD				1:1 HCL					
Contact: Todd Staub			Phone: Fax:				Requested Analysis					
			Email:				8260	8015	524.2			
Sample By:			Receive Completed Report Via (Circle One) U.S. Mail Email Fax					DRO				no chloride
								GRO				
Sample #	Sample ID	Date	Time	Matrix	pH							
1	PW-1	3/21/23										
2	PW-1A				LL							
3	Trip				LL							
4												
5												
6												
7												
8												
9												
10												
Relinquished/Received By Signature			Date	Time	Delivery Method	Lab Use Only						
Relinquished By: <i>[Signature]</i>						Temp of Cooler						
Received By: <i>[Signature]</i>						24°C						
Relinquished By: <i>[Signature]</i>						Ice Present (Y/N)						
Received By: <i>[Signature]</i>			3/22/23			Custody Seal (Y/N)						
Relinquished By: <i>[Signature]</i>						Date of Extraction						
Received By: <i>[Signature]</i>						3/22						
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other						Turn Around Time: <input checked="" type="radio"/> STD 1 Day 2 Day 3 Day Other						
Special Instructions / Comments / QC Requirements:												

Appendix D
Well Receptor Survey Data



Tevis Winfield BP
Radius Map
April 2019

Winfield BP DSW Field Inspection



Google Earth

© 2017 Google



1000 ft

MDE provided data from PIA Request

PERMIT	Address	City	Property Owner	TAX MAP	PARCEL	TOTAL_DE PTH	TOP SCREEN	BOTTOM SCREEN
CL739673	1900 Liberty Rd	Sykesville	S Carroll Swim Club	62	424	260	20	260
CL740072	5176 Stone House Village Ct	Sykesville	James Kleinschmidt	67	481	440	20	440
CL739869	1623 W Old Liberty Rd	Sykesville	Mathew Pollack	67	229	167	156	167
CL813434	1830 Liberty Rd	Sykesville	Timothy Bauerlien	61	461	340	19	340
CL880284	1630 W Old Liberty Rd	Sykesville	Terry Livesay	67	516	95	63	95
CL881738	2605 Bollinger Mill Rd.	Sykesville	Paul Kuegler	69	296	200	141	200
CL930541	1630 W Old Liberty Rd	Sykesville	Terry Livesay (restaurant)	67	516	165	128	165
CL930725	1715 W Old Liberrty Rd	Sykesville	Kamaleer Mini Storage	67	321	152	64	152
CL-94-0953	4559 Salem Bottom	Westminster	Brooke Meeley	62	172	105	58	105
CL942111	4525 Salem Bottom Rd	Westminster	Katherine Little	62	188	170	76	170
CL944581	1615 W Old Liberty Rd	Sykesville	1615 Old Liberty LLC	67	223	300	147	300
CL945574	4707 Woodbine Rd.	Winfield	Casey Forsythe, Josh Alvandi (adjacent)	67	3	180	70	80
CL950003	1631 Liberty Rd	Winfield	SMO Inc.	67	221	80	50	80
CL950004	1631 Liberty Rd	Winfield	SMO Inc.	67	221	80	50	80
CL950002	1631 Liberty Rd	Winfield	SMO Inc.	67	221	120	90	120
CL950387	1631 Liberty Rd	Winfield	SMO Inc.	67	221	85	10	85
CL950399	1631 Liberty Rd	Winfield	SMO Inc.	67	221	305	178	305
CL950358	1707 W Liberty Rd	Winfield	Ameyyash Invest. LLC	67	267	246	66	246
CL950937	1626 W Old Liberty Rd	Winfield	Terry Livesay	67	306	280	173	280
CL950900	1631 Liberty Rd	Winfield	SMO Inc.	67	221	139		114
CL950901	1631 Liberty Rd	Winfield	SMO Inc.	67	221	85		10
CL952169/ CL140154	1750 Raydan Dr	Eldersburg	John Downs	67	526	260	86	260
CL110160	4544 Salem Bottom Rd	Westminster	Jeffrey Goodman	0062	0133	175	67	175
CL160130	2825 Old Liberty Rd	Sykesville	John Keyser	74	729	267	0	0

Wells Observed During Field Inspection With No Associated PIA Data

CL-16-0137	1623 1625 Old Liberty Rd	Sykesville	Mathew Pollack	67	229
CL-73-2680	1636 Old Liberty	Sykesville	Classic Exterior Solutions	67	152
CL-95-0597	1610 W Old Liberty Rd	Sykesville	Sams Plaza Body Wachter Auctions	67	79
CL-95-0937	1626 W Old Liberty Rd	Sykesville	Terry Livesay	67	306
CL-93-0541	1630 W Old Liberty Rd	Sykesville	Terry Livesay	67	516
No Tag	1730 W Old Liberty Rd	Sykesville	Mary Grubs	62	226
No Tag	1726 W Old Liberty Rd	Sykesville	Michael Keller	62	140
No Tag	1744 W Old Liberty Rd	Sykesville	Stephen Bruha	62	420
CL-73-6597	4561 Salem Bottom	Westminster	Eric Kissell	62	71
Not visible	4562 Salem Bottom	Westminster	Robert Mercer	62	131
CL-94-0953	4559 Salem Bottom	Westminster	Brooke Meeley	62	172
CL-94-1701	4555 Salem Bottom	Westminster	William Odonnell	62	163
CL-16-0172	4901 Woodbine RD	Sykesville	Ebenezer UMC	67	220
CL-73-8498	4820 Woodbine Rd	Sykesville	Mark Herbolt	67	148
CL-94-1015	4812 Woodbine Rd	Sykesville	Bobbi Cabral	67	444
CL-94-5584	1705 Charles Ray Acres	Eldersburg	Vourlous Kirkner	67	625
CL-94-5583	1700 Charles Ray Acres	Eldersburg	Timothy Brown	67	625
CL-94-5585	1711 Charles Ray Acres	Eldersburg	Scott Hanel	67	625
CL-81-3586	1720 Charles Ray Acres	Eldersburg	Joseph Pavlock	67	513
CL-14-0155	1740 Ray Dan Rd	Sykesville	Mitchell Richards	67	562
CL-14-0154	1750 Ray Dan Rd.	Sykesville	John Downs	67	526
CL-95-2169	1720 Ray Dan Rd.	Sykesville	Brandon Webb	67	562

Area Properties Without Well Data

4716 Woodbine Rd	Sykesville	Phyllis Gilliss	67	198
4720 Woodbine Rd	Sykesville	Brian Cunningham	67	60
4724 Woodbine Rd	Sykesville	Geraldine Gordon	67	61
4728 Woodbine Rd	Sykesville	John Schulze	67	62
4732 Woodbine Rd	Sykesville	James Fogle	67	63
4736 Woodbine Rd	Sykesville	Ann Kern	67	173
4800 Woodbine Rd	Sykesville	Hamilton Snowden	67	445
4740 Woodbine Rd	Sykesville	Rod Fansler	67	193
4746 Woodbine Rd	Sykesville	Erman Will	67	64
1621 W Liberty Rd	Sykesville	Westminster Trust (bank)	67	50

Appendix E
Mann Kendall Analysis

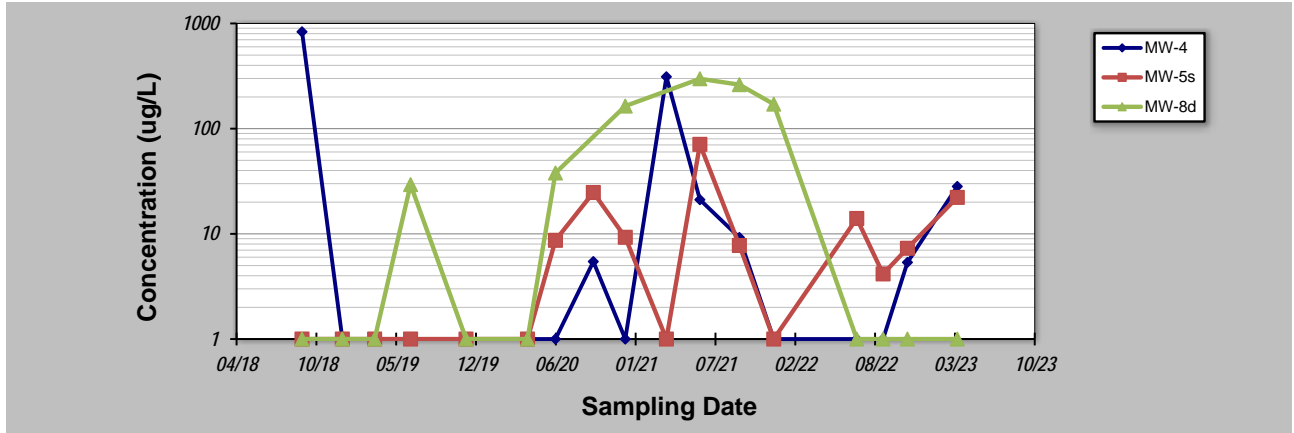
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: Greg Beal
 Facility Name: Tevis Winfield BP
 Conducted By: Greg Beal

Job ID: Tevis Winfield BP
 Constituent: MTBE
 Concentration Units: ug/L

Sampling Point ID: MW-4 MW-5s MW-8d _____ _____

Sampling Event	Sampling Date	MTBE CONCENTRATION (ug/L)					
		MW-4	MW-5s	MW-8d			
1	9/21/2018	833	1	1			
2	12/31/2018	1	1	1			
3	3/22/2019	1	1	1			
4	6/20/2019	1	1	29.40			
5	11/6/2019	1	1	1			
6	4/8/2020	1	1	1			
7	6/17/2020	1	8.68	37.90			
8	09/20/20	5.45	24.7	0			
9	12/09/20	1	9.27	164			
10	03/22/21	311	1	0			
11	06/14/21	21.1	70.9	298			
12	09/21/21	9.23	7.75	262			
13	12/16/2021	1	1	171			
14	7/12/2022	1	14.0	1			
15	9/16/2022	1	4.16	1			
16	11/16/2022	5.35	7.29	1			
17	3/21/2023	28.20	22.20	1			
18							
19							
20							
Coefficient of Variation:		2.91	1.66	1.75			
Mann-Kendall Statistic (S):		17	50	11			
Confidence Factor:		74.2%	97.9%	65.7%			
Concentration Trend:		No Trend	Increasing	No Trend			



- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
 - Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
 - Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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