

November 1, 2017

TECHNICAL MEMORANDUM

To: Steve Clough
Nevada Environmental Response Trust

From: Jessica Donovan, Ramboll Environ
John Pekala, CEM#2347, Expires 9/20/2018, Ramboll Environ

Re: **RI Phase 2 Modification No. 9
Nevada Environmental Response Trust Site
Henderson, Nevada
Ramboll Environ Project No. 21-41400C, M03C**

This Technical Memorandum presents Ramboll Environ's recommended Modification No. 9 to the scope of work for the Remedial Investigation (RI) Phase 2 Investigation currently in progress at the Nevada Environmental Response Trust Site (the "Site") located in Henderson, Nevada. In order to obtain additional data on current concentrations of volatile organic compounds (VOCs) in the vicinity of the Interceptor Well Field (IWF), we are recommending the collection of groundwater samples from the 17 IWF monitoring wells (identified in Table 1) and analysis for VOCs. These wells are currently used for water level monitoring only. These monitoring wells are located close to the IWF extraction wells, which are already analyzed for chromium, hexavalent chromium, perchlorate, total dissolved solids, chlorate, and nitrate on a routine basis. The proposed monitoring well sampling will be conducted in accordance with the procedures in the approved Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP).

The IWF monitoring well construction details are summarized in Table 1, and the well locations are shown on Figure 1.

Please contact us should you have any questions about the additional wells identified for VOC sampling as presented in this technical memorandum.

Attachments

Table 1 IWF Monitoring Well Construction Details
Figure 1 RI Phase 2 Investigation - Modification No. 9

TABLE 1. IWF GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS
RI Phase 2 Modification No. 9
Nevada Environmental Response Trust Site; Henderson, Nevada

Monitoring Well ID	IWF Monitoring Well Construction Details												Notes
	Elevation		Depth to Qa/UMCf Contact (ft bgs)	Total Well Depth (ft bgs)	Casing Diameter and Type	Screen Size (inches)	Screened Interval		Sand Pack Interval (ft bgs)	2017 Groundwater Elevation			
	Top of Casing (ft msl)	Ground Surface (ft msl)					Top (ft bgs)	Bottom (ft bgs)		GW Elevation (ft msl)	Bottom of Screen (ft msl)	Saturated Screen (feet)	
Interceptor Well Field Monitoring Wells													
M-55	1750.88	1749.43	31.0	44.6	2" PVC	0.01	14.6	44.6	13-46	1723.20	1704.83	18.37	
M-56	1750.83	1749.65	24.5	40.0	2" PVC	0.01	15.0	40.0	13-40	1720.77	1709.65	11.12	
M-58	1751.25	1748.72	29.5	45.0	2" PVC	0.01	15.0	45.0	13-45	1722.00	1703.72	18.28	
M-60	1750.94	1749.31	27.5	43.0	2" PVC	0.01	17.8	42.8	16-43	1719.68	1706.51	13.17	
M-78	1751.50	1749.54	31.5	43.6	2" PVC	0.01	21.5	41.5	14-44	1721.22	1708.04	13.18	
M-131	1754.13	1751.05	30.0	40.0	2" PVC	0.01	28.7	38.7	23-40	1719.65	1712.35	7.30	[a]
M-166	1751.09	1751.49	27.5	32.0	2" PVC	0.01	21.7	31.7	19-32	1723.10	1719.79	3.31	
M-167	1749.95	1749.84	24.5	30.0	2" PVC	0.01	19.7	29.7	15-30	1721.97	1720.14	1.83	
M-168	1748.46	1748.71	26.5	32.0	2" PVC	0.01	21.7	31.7	17-35	1723.00	1717.01	5.99	
M-169	1750.22	1750.64	27.0	35.0	2" PVC	0.01	24.7	34.7	20-35	1723.09	1715.94	7.15	
M-170	1750.66	1750.51	29.0	35.0	2" PVC	0.01	24.7	34.7	18-42	1722.77	1715.81	6.96	
M-172	1750.58	1750.39	30.5	37.0	2" PVC	0.01	26.7	36.7	21-38	1720.31	1713.69	6.62	
M-173	1749.88	1749.83	29.5	40.0	2" PVC	0.01	24.7	39.7	20-40	1721.44	1710.13	11.31	
M-174	1742.29	1742.16	24.5	28.0	2" PVC	0.01	17.7	27.7	13-30	1722.17	1714.46	7.71	
M-175	1742.74	1742.79	25.0	29.0	2" PVC	0.01	18.7	28.7	14-30	1721.61	1714.09	7.52	
M-176	1745.35	1745.45	30.0	30.0	2" PVC	0.01	19.7	29.7	15-30	1721.51	1715.75	5.76	
M-177	1743.23	1743.26	24.5	30.0	2" PVC	0.01	19.7	29.7	15-35	1721.63	1713.56	8.07	

Notes:

ft bgs: feet below ground surface

ft msl: elevation in feet, mean sea level datum

[a] Well M-131 groundwater elevation measured in May 2016.

