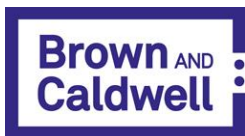


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December 7, 2018

## Letter Report

Tasha Lewis  
Greenfield Environmental Multistate Trust LLC

151737.063

Subject: Caselton Wash Monitoring Well CM-MW-2

Dear Ms. Lewis

In 2017, Brown and Caldwell oversaw the drilling and installation of an alluvial groundwater monitoring well pursuant to the *Caselton Wash Tailings (OU-5) Characterization Work Plan*<sup>1</sup> (OU-5 Work Plan) activities on behalf of the Greenfield Environmental Multistate Trust, LLC. The work was conducted for the purpose of determining what, if any, impacts have occurred to the alluvial groundwater aquifer in the vicinity of the OU-5 Off-Site Tailings in the Caselton Wash.

During drilling, alluvial groundwater was encountered at the CM-MW-2 location at a depth of 328 feet below ground surface (bgs), and a well was constructed with a 2-inch diameter schedule-80 polyvinyl chloride (PVC) casing and a 10-foot screen interval (0.02-inch slot size with 10/20 mesh silica sand) in accordance with Nevada Department of Water Resources (NDWR) requirements. Figure 1 displays the well construction diagram. Forty-eight hours following well development, an initial groundwater sample from CM-MW-2 was collected on October 20, 2017 via low-flow, minimal drawdown purge and sample method using a dedicated bladder pump. The intake of the pump was placed at 333 feet bgs, in the middle of the screened interval and 5 feet below static water level encountered during drilling. Because of the anticipated depth to water of more than 300 feet bgs, a high pressure nitrogen gas cylinder was used to actuate the bladder pump. Results of the initial groundwater sample collection are summarized in the *Caselton Wash Tailings (OU-5) Characterization Field Data Summary Report*.<sup>2</sup>

Brown and Caldwell travelled to the Site in March 2018, and again in November 2018, to sample CM-MW-2 for the required semi-annual monitoring. During the March sampling event, groundwater was not detected above the top of the pump at 330 feet bgs and a sample was not collected. During the November sampling event, again groundwater was not encountered above the top of the installed pump. The additional

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<sup>1</sup> Brown and Caldwell, 2017. *Caselton Wash Tailings (OU-5) Characterization Work Plan*. Prepared for Greenfield Environmental Multistate Trust, LLC, June 15.

<sup>2</sup> Brown and Caldwell, 2017. *Caselton Wash Tailings (OU-5) Characterization Field Data Summary Report*. Prepared for Greenfield Environmental Multistate Trust, LLC, December 12.

step of removing the pump from the well was completed and the water level sounder was again lowered again into the well. No groundwater was encountered and the bottom of the well sump was tagged and mud was observed on the sounder probe confirming there was no water in the well to a total depth of 343 feet bgs. Copies of field notes and field sampling forms are provided in Attachment 1.

Future semi-annual sampling events are planned for April and October 2019. If you have any questions or concerns, please contact me.

Very truly yours,

**Brown and Caldwell**



Penny Bassett, Project Manager

Attachments

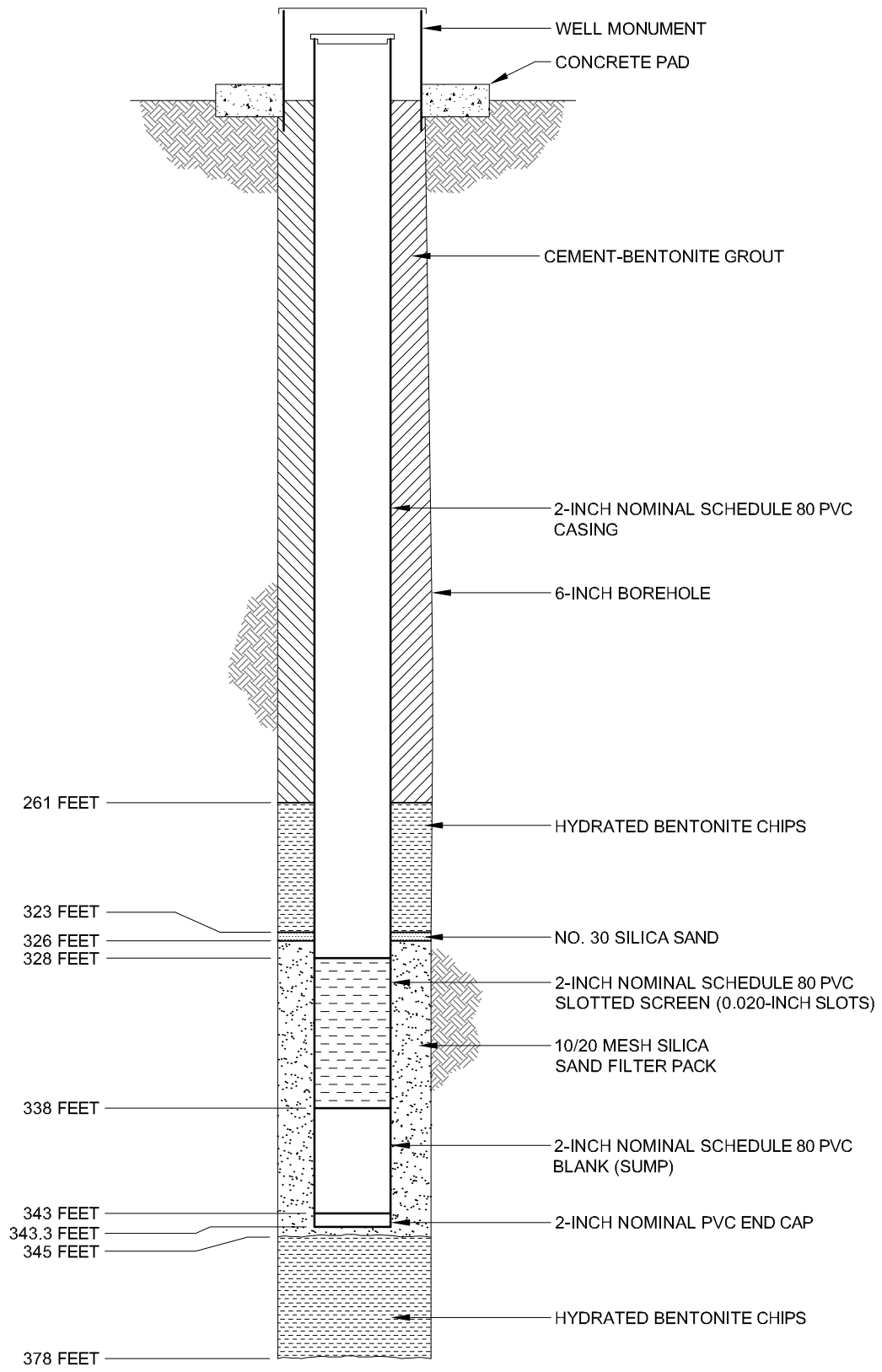
- Figure 1 – CM-MW-2 Well Construction Details
- Attachment A – Field Documentation

Copy: Jeryl Gardner, NDEP AML, Engineering Supervisor  
Jonathan Zittel, NDEP AML, Staff Engineer

*Limitations:*

*This document was prepared solely for Greenfield Environmental Multistate Trust, LLC in accordance with professional standards at the time the services were performed and in accordance with the contract between Greenfield Environmental Multistate Trust, LLC and Brown and Caldwell. This document is governed by the specific scope of work authorized by Greenfield Environmental Multistate Trust, LLC; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. We have relied on information or instructions provided by Greenfield Environmental Multistate Trust, LLC and other parties and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.*

Dec. 05, 2018 - 3:48pm  
 R:Johnson  
 P:\Caselton Mine - Greenfield Env. Trust\151737 - 2018 Caselton Mine RIFS\CAD\Dec2018\Figure 1 - CM-MW-2 Well Constr Details.dwg



NOT TO SCALE



Date: Dec. 2018  
 Project: 151737

**Figure 1**  
**CM-MW-2 Well Construction Details**

# Groundwater Sampling Log

## Attachment 1

Project: CASATA  
 Client: \_\_\_\_\_  
 Project #: 151937.063

Event: Nov. 2018 SAMPLING  
 Date: 11/16/18

Well ID: CM-MW-2  
 Static Water Level: - DRY.  
 Top of Screen: 328



Time	Pump Rate	Vol removed	Temperature		SC		DO		pH		ORP		Turbidity		Depth to Water	
			min	m/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU
Previous event field parameters:																
Criteria:	60 max	Min. purge volume		3%		3%		10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		10% or Δ10mV if <100 mV		< 10 NTU or 10%		<0.3 ft

Sample Date and Time: _____					Sampler: <u>Craig Strauss C. Strauss</u>					
Analysis Requested:		Volume:	Filtered	Preservative:	QC Sample ID:	Pump Information:				
						Dedicated	Non-Ded.	Pump/tubing deconned before use: Yes <u>NA</u>		
						<b>X</b>		Bladder pump: DC CO <sub>2</sub> gas <u>NO<sub>2</sub> gas</u>		
								PSI:	Refill:	Disch:
								Peristaltic		
								Production Pump		
							Other:			
						<b>333</b>	←Pump depth (based on project records)			

Comments: NO WATER IN WELL. DRY.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Field Review: \_\_\_\_\_ QA/QC Review: \_\_\_\_\_

%RPD = 200 X  $\frac{\text{Read 1} - \text{Read 2}}{\text{Read 1} + \text{Read 2}}$   
 3 consecutive stable readings before sampling  
 Form Revised 4/11/2013

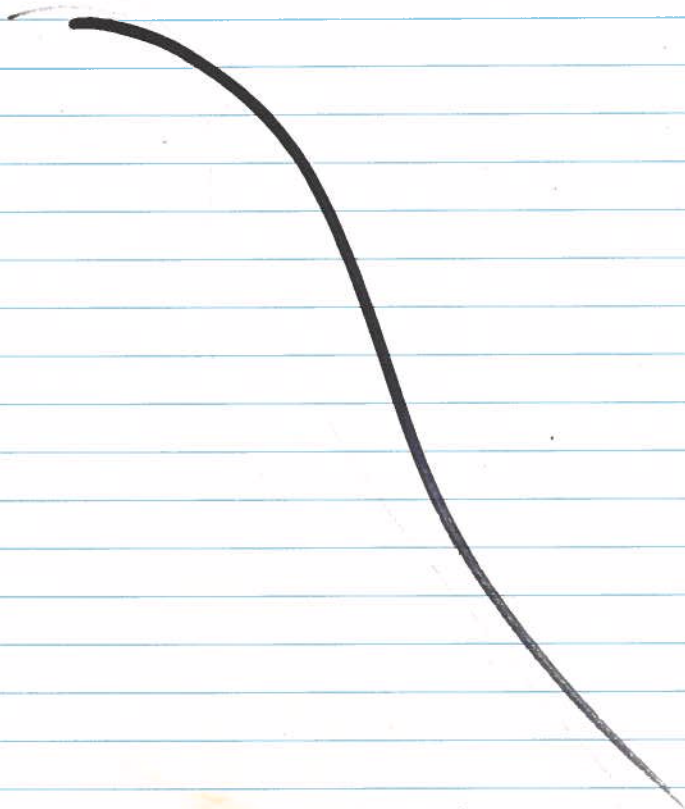
Attachment 1

2

Caseltown

3/4/18

- 0700 Pick up truck
- 0810 Pick up Nitro tanks
- 0830 head to Pöcher
- 1630 Pöcher



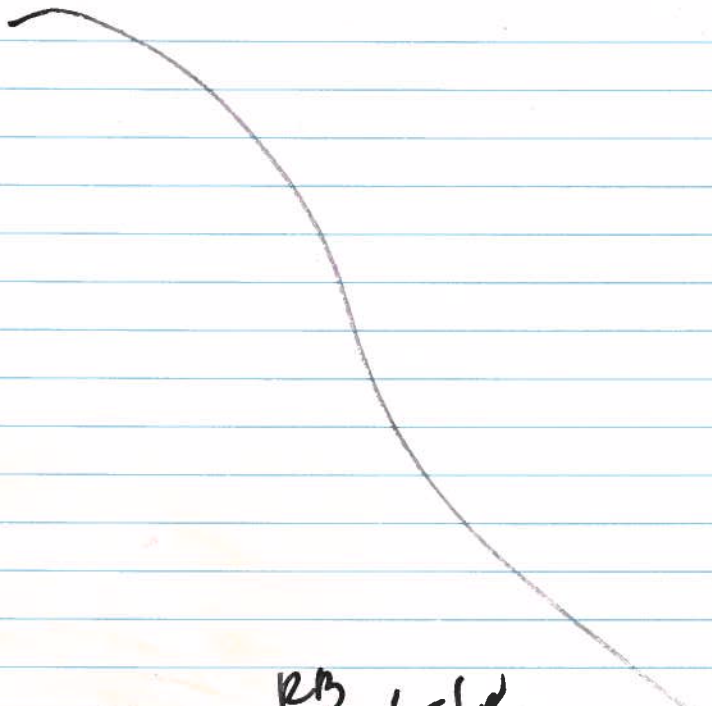
RB 3/4/18

3

Caseltown

3/5/18

- 0730 head to well
- 0804 start Calibration  
Wendy + Matt McCrosky  
on site
- 0840 No water  
Call Penny
- 0915 head back to cc
- 1830 cl.



RB 3/5/18

4

11/16/18 CM-MW-2 MONITORING  
 1300 ARRIVE DOWN AT CM-MW-2. ATTEMPT TO TAG WATER.  
 NO WATER ABOVE TOP OF DEDICATED BLADDER PUMP. PULL OUT PUMP.  
 1400 NO WATER IN WELL. TAGGED SOFT BOTTOM. PROBE CAME UP MUDDY.  
 1410. RE-INSTALL PUMP.  
 1515. OFF SITE.

11/16/18 Camp Stream