FIVE-YEAR REVIEW REPORT FOR SOUTH MAYBE CANYON MINE CROSS VALLEY FILL CARIBOU COUNTY, IDAHO

Prepared by

U.S. Forest Service
Region 4
Caribou-Targhee National Forest
Idaho Falls, Idaho

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LIST OF ABBREVIATIONS & ACRONYMS

ARAR	Applicable or Relevant and Appropriate Requirement
ASAOC/CO	Administrative Settlement Agreement and Order on Consent/Consent Order
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CFS	Cubic Feet per Second
COPC	Constituent of Potential Concern
CVF	Cross Valley Fill
DER	Data Evaluation Report
EE/CA	Engineering Evaluation/Cost Analysis
EPA	United States Environmental Protection Agency
ESL	Ecological Screening Level
FYR	Five-Year Review
HHSL	Human Health Screening Level
IDEQ	Idaho State Department of Environmental Quality
ICs	Institutional Controls
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPL	National Priorities List
NTCRA	Non-Time Critical Removal Aciton
MCL	Maximum Contaminant Level
mg/L	Milligrams per Litre
MCOU	Maybe Creek Operable Unit
OPOU	Open Pits Operable Unit
OSC	On-Scene Coordinator
OU	Operable Unit
PRSC	Post-Removal Site Control
RAO	Removal Action Objectives
RI/FS	Remedial Investigation/Feasibility Study
RSL	Regional Screening Level
SI	Site Investigation
SMCM	South Maybe Canyon Mine
ug/L	Micrograms per Litre
USFS	United States Forest Service

I. INTRODUCTION

The purpose of this Five-Year Review (FYR) is to evaluate the implementation and performance of the Non-Time Critical Removal Action (NTCRA) to determine if the NTCRA is, and will continue to be, protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in five-year review reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

The United States Forest Service (Forest Service) is preparing this Five-Year Review in accordance with the approved Post-Removal Site Control Plan, South Maybe Canyon Mine (SMCM), Cross Valley Fill (CVF). This FYR is not required by statute, EPA policy, or Forest Service policy.

The triggering action for this review is the construction completion date of SMCM CVF. The FYR was prepared at the request of NuWest and because hazardous substances, pollutants, or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure (UU/UE).

The CVF addresses exposure to nearby human populations, animals or the food chain from hazardous substances or pollutants or contaminants in the surface water, soils, and prevents infiltration of water into waste rock.

The SMCM CVF Site FYR was led by the On-Scene Coordinator (OSC), Brian Deeken (Forest Service). Participants included Stan Christensen (Idaho State Department of Environmental Quality), Jon Bronson (NuWest Industries, Inc.), Susan Hanson (Shoshone-Bannock Tribes), and Ryan Braham (US Fish & Wildlife Service). The review began on February 24, 2022.

Site Background

The SMCM CVF (consisting of a waste rock dump), is located on National Forest System lands administered by the Caribou-Targhee National Forest. The SMCM CVF is located approximately 26 miles to the northeast of the City of Soda Springs, Idaho (Appendix B – Figure 1). The Site consists of an Open Pit, the CVF (a waste dump), former mining roads, and Maybe Creek (Appendix B – Figure 2).

Maybe Creek flows through a French drain system under the CVF onto private property. The private property belongs to NuWest Industries Inc. and is located to the west adjacent to the National Forest boundary in Dry Valley. No residents (current or future) live on the National Forest or in Dry Valley,though workers frequent the nearby Dry Valley Mine shop area.

Mining began at the Site from 1976 to 1978 then again from 1979 through 1984. The leaseholders constructed the CVF over Maybe Creek to store waste rock generated from mining operations at the Site. The CVF waste rock dump is about 1.0 mile long, 0.3 miles wide, and 425 feet deep. The miners segregated waste rock into two general categories, chert and shale. The miners constructed an approximately 50 foot deep/mile long French drain over Maybe Creek as the base of the CVF with coarse and durable chert. The drain was designed to accommodate water flows of 200 cubic feet per second (CFS) under the CVF. Miners also dumped chert along the western aspect of South Maybe Canyon, creating a blanket of durable chert to serve as a drain for the runoff. While the chert blanket feature was designed to be shale-free, in one incident the miners deposited approximately 30,000 cubic yards of waste shale in the blanket. Once substantial completion of the drain occurred, miners began

placing waste shale on the pit and the drain. Approximately 29 million cubic yards of chert and shale are contained in the CVF.

In 1996, six horses pastured about 1.5 miles downstream of the CVF developed selenosis. Subsequently, the owner euthanized five of the horses because it was unlikely that the horses would fully recover.

NuWest conducted a Site Investigation (SI) under Forest Service oversight from 1999 to 2009 (the SI includes nine annual supplements). An Engineering Evaluation/Cost Analysis (EE/CA) for an Interim Removal Action for the CVF was prepared in 2011. An Action Memorandum selecting grading, terracing, and cap/cover for the top deck and slope of CVF with grazing restrictions was signed in 2012. An Administrative Settlement Agreement and Order on Consent/Consent Order (ASAOC/CO) for implementation of the Non-Time-Critical Removal Aciton (NTCRA) was signed in 2013. NuWest constructed cap /cover for SMCM CVF under Forest Service oversight from 2014 to 2017. NuWest performed Post-Removal Site Control (PRSC) activities under Forest Service oversight for the CVF cap / cover from 2017 to present.

No other removal actions have been conducted at SMCM CVF.

Table 1: FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION		
Site Name: South Maybe Canyon Mine, Cross Valley Fill		
EPA ID: IDN001002957		
Region: 4	**State:** ID	**City/County:** Soda Springs, Caribou County
SITE STATUS		
NPL Status: Non-NPL		
Multiple OUs? Yes	**Has the site achieved construction completion?** Yes	
REVIEW STATUS		
Lead agency: Other Federal Agency ***[If "Other Federal Agency", enter Agency name]*:** US Forest Service		
Author name (Federal or State Project Manager): Brian Deeken		
Author affiliation: US Forest Service		
Review period: 1/25/2022 - 12/31/2022		
Date of site inspection: 6/28/2022		
Type of review: Discretionary		
Review number: 1		
Triggering action date: 9/29/2017		

Due date *(five years after triggering action date)*: 9/30/2022

II. REMOVAL ACTION SUMMARY

Basis for Taking Action

The constituents of potential concern (COPCs) for the SMCM CVF listed in the Action Memorandum include selenium, cadmium, chromium, nickel, and zinc – all of which are hazardous substances as defined by CERCLA 42 U.S.C. section 9601(14). These COPCs are found above health-based standards in surface water, groundwater, and vegetation. The COPCs are associated primarily with the waste shale; the chert has relatively low levels of COPCs. Selenium is the most widespread and concentrated COPC at the Site.

The principal source of metal contamination is from the CVF waste rock dump. The primary exposure pathways include ingestion and dermal contact with contaminated surface water, groundwater, or vegetation. Concentrations of COPCs exceeded the screening level benchmarks, indicating a potential for unacceptable risks to human health and ecological receptors.

Removal Actions

The Forest Service selected a removal action for the SMCM in an Action Memorandum dated January 4, 2012 for the CVF. There were no previous CERCLA removal or remedial actions prior to the Action Memorandum. The lessee conducted storm water management maintenance activities on the CVF in 2008 and 2011. These activities were conducted in accordance with the Bureau of Land Management's (BLM) SMCM Mine and Reclamation Plan and Storm Water Pollution Prevention Plan.

The Removal Action Objectives (RAOs) included the following:

- Minimize infiltration on the surface of the CVF to reduce the load (concentration times volume) of selenium and other hazardous substances into Maybe Creek;
- Prevent exposure of human and ecological receptors to hazardous substances in vegetation on the surface of the CVF; and
- Capture and isolate precipitation runoff from the CVF surface to reduce flow from within the fill. Smaller emergent flows will be easier to manage if further treatment is determined to be necessary.

No cleanup values were selected in the Action Memorandum.

The elements of the removal action included:

- Grading the CVF top deck and terracing the north slope.
- Capping and covering the top deck and north slope to minimize infiltration.

- Diverting runoff from the top deck and north slope to the toe of the CVF to minimize infiltration and protect the constructed removal action.
- Applying institutional controls (ICs) to grazing permits restricting sheep and cattle access to protect the constructed removal action at CVF.
- Accessing controls included fencing and gates to protect the removal action from recreationalists.

Status of Implementation

In May of 2015, NuWest's contractor mobilized and began Site preparation activities that included the following: installing access gates and signage, conducting a preconstruction site survey, completing an annual bird survey, implementing road closures, and mobilizing project trailers. A project kickoff meeting was conducted on June 1, 2015. Mobilization completed in June 2015.

NuWest's contractor (Envirocon) conducted the following construction activities between 2015 and 2017 (Arcadis 2018a):

- Five local borrow areas were developed and two offsite supplier borrow pits were used for fill material procurement during construction activities between 2015 and 2016. The borrow sources included:
    - South Borrow Area – general fill
    - West Hillside Borrow Area – aggregates and general fill
    - South Ridge/Chert Borrow Area – chert
    - Aggregate Borrow Area – aggregate
    - Anderson Ranch Borrow Area – topsoil and clay
    - Staker Parson Companies – imported drainage stone
    - Vaughn Smith Construction – imported aggregate drainage material
- The cover system was generally constructed in the following steps on the top deck and north slope of SMCM CVF between 2015 and 2017:
    - Regrading of the existing CVF surface
    - Placement of the subcushion
    - Installation of the FML and overlying GDC
    - Installation of the underdrain system
    - Placement of the general fill
    - Placement of the topsoil.
- Following completion of the cover system the top deck was drill seeded in November 2016 and September 2017. The north slope was hydroseeded in November 2016. Remaining areas on the north slope and select areas were reseeded in September 2017. Borrow areas were reseeded between 2016 and 2017.
- 500 cubic yards of sediment was removed from the upper sediment pond of Maybe Creek and placed in a bermed area adjacent to the ponds in October 2017.

Following the construction season in November of 2015 and 2016, construction equipment and work trailers were removed from the Site for the winter. Final construction demobilization was completed in November 2017 with all equipment, storage units, personnel, and work trailers being removed from the site. Remaining aggregate materials and topsoil were stockpiled off the west side of the north slope and the West Hillside Borrow area for use in future repairs (stockpiled topsoil was reseeded to prevent erosion).

IC Summary Table

Table 2: Summary of Planned and/or Implemented ICs

Media, engineered controls, and areas that do not support UU/UE based on current conditions	ICs Needed	ICs Called for in the Decision Documents	Impacted Parcel(s)	IC Objective	Title of IC Instrument Implemented and Date (or planned)
Soils and Vegetation	Yes	Yes	Maybe Canyon Allotment	Grazing Restriction on SMCM CVF to protect cap & cover	Annual Operating Instructions for Allottee

Post-Removal Site Control

The Post-Removal Site Control (PRSC) Plan was approved in November 2018 (Arcadis 2018b). Monitoring and maintenance of the CVF was completed each year from 2018 to 2022 in accordance with the PRSC Plan. The PRSC Plan included:

- Inspection and maintenance activities each year – Inspections include: cover vegetation, temporary erosion and sediment controls, undesirable vegetation removal (weeds, shrubs, & trees), site infrastructure (e.g. access roads, signage, fencing), recreational damage, drainage features (e.g. check dams, outfalls, settling ponds, flume, & piping), settlement monuments, and other general cover issues (e.g. erosion, ponding, settlement, instability, exposed geosynthetics, & damage).
- Corrective actions – Corrective actions are defined as non-routine repairs that may be needed for larger repairs or emergencies. Inspections noted above are intended to manage issues before they result in significant damage or a release.
- Water quality monitoring activities – Water quality monitorting requirements include surface water and groundwater monitoring. Surface water monitoring will assess the effectiveness of the cover system in mitigating the transport of seleniumk and other COPCs in surface water and reducing selenium loading to Maybe Creek. Groundwater monitoring will assess the groundwater response to reduced infiltration through CVF and reduced loading in Maybe Creek.
- Health and safety – NuWest will provide a Health and Safety Plan that addresses all SMCM Operable Units including CVF.

- Notifications and reporting – NuWest will make the following notifications to the Agencies and OSC seven days before activities: Field work and maintenance activities. An annual PRSC Report will be prepared annually to describe completed inspection and maintenance activities for the corresponding year. An annual Data Evaluation Report (DER) will be prepared annually for Maybe Creek to summarize the annual surface water and groundwater monitoring events, present sampling results, and include concentration trends with time. A PRSC Plan Addendum will also be submitted to propose changes to the inspection procedures including: decreases in inspection frequencies based on achieving criteria, increases in inspections frequencies based on change of conditions observed in the previous year, and changes in inspection personnel.

A new open channel spring formed east of the headwall structure following construction of the CVF cover system in late 2016. When the spring initially developed, the flow resulted in erosion of native material adjacent to the capped CVF. Eroded material was contained within the settling ponds downgradient of the CVF. The channel was armored with rock in the summer to prevent further erosion. Based on sample results, the water is believed to originate from the chert blanket beneath the CVF (Arcadis 2018).

In 2018, concentrated flows resulting from snow and ice backup resulted in runoff overtopping several benches. These areas of concentrated flow created several large gullies through the cap and cover down to the liner and required repair (the liner was not damaged). Due to the recent completion of the CVF construction, vegetation had not fully established by 2018, likely worsening the erosion that had occurred. Eroded material was contained on the slope and the settling ponds downgradient of the CVF. The gullies were repaired to as-built conditions and reseeded. Benches and slopes were armored with straw wattles, bonded fiber matrix mulch, and temporary erosion control matting to prevent significant erosion in case of overtopping in future years. Snow plowing of the benches was conducted in subsequent years to prevent snow and ice backup in the future (Arcadis 2019).

In September 2018, inadvertent sheep grazing occurred in the South Borrow Area. Although the flock was immediately relocated, damage had occurred, including trampling of vegetation and removal of he grass/vegetative cover (Arcadis 2019). The South Borrow Area reached the target vegetation standard of 70% set in the approved PRSC Plan in 2020 (Arcadis 2021).

In 2018, volunteer sagebrush was observed on the top deck and north slope of CVF. A Sagebrush Colonization Technical Evaluation was submitted in August 2019 stating woody shrubs such as sagebrush are not anticipated to compromise cap integrity (Arcadis 2020). An evaluation of sage brush rooting depth on and off the cover system conducted in spring 2020 found that sagebrush roots were not affecting liner integrity at CVF (Arcadis 2021). Agencies decided not to remove sagebrush from the CVF based on the data provided.

III. PROGRESS SINCE THE LAST REVIEW

Not applicalbe. No prior FYR have been conducted at SMCM CVF.

IV. FIVE-YEAR REVIEW PROCESS

Community Notification, Involvement & Site Interviews

A public notice was made available by a newspaper posting in the Idaho State Journal (Pocatello) and the Caribou County Sun (Soda Springs) on 6/1/2022 and 6/2/2022 respectively, stating that there was a five-year review and inviting the public to submit any comments to the Forest Service. To date, the Forest Service has not received any comments.

During the FYR process, written interviews were conducted to document any perceived problems or successes with the Removal Action implemented to date**.** Written interview questions were sent to NuWest, Soda Springs District Ranger, Idaho State Department of Environmental Quality, and Shoshone-Bannock Tribes representatives. Three written interview responses were received by the Forest Service. The results of these interviews are summarized below:

- Overall, interviewees felt well informed regarding CVF activities and the removal action reductions in surface water and groundwater contamination exceeded expectations.
- Interviewees noted some minor recreational use damages that were repaired during annual maintenance activities.
- One interviewee recommended removal of the project signage as it has limited current use and suggested improvements to the drainage system to better accommodate spring snow-melt flows.

The results of the review and the report will be made available at the Site information repository located at the Soda Springs Ranger District office, located at 410 E. Hooper Ave., Soda Springs, ID 83276. The results of this report will be available on the Caribou-Targhee National Forest's website.

In July 2019, EPA approved the acute and chronic Aquatic Life Criterion for selenium change for surface water found in IDAPA 58.01.02.287.01. This change consists of the following tissue and water column elements for ascertaining Clean Water Act compliance for selenium:

Table 3: IDEQ Site-Specific Selenium Criteria for Aquatic Life (Subsection of Blackfoot Subbasin)

Egg-Ovary (mg/kg dw)	Fish Tissue (mg/kg dw)		Water Column (ug/L)
Egg-Ovary[1]	Whole Body[2]	Muscle[2]	Water Lotic[3, 4, 5]
24.5	12.5	12.8	11.9

1. Egg-ovary supersedes any whole-body, muscle, or water column element when fish egg-ovary concentrations are measured. Single measurement of an average or composite sample of at least five (5) individuals of the same species. Not to be exceeded; DEQ will evaluate all representative egg-ovary data to determine compliance with this criterion element.
2. Fish whole-body or muscle tissue supersedes water column element when both fish tissue and water concentrations are measured. Single measurement of an average or composite sample of at least five (5) individuals of the same species where the smallest individual is no less than seventy-five percent (75%) of the total length (size)

of the largest individual. Not to be exceeded; DEQ will evaluate all representative whole-body or muscle data to determine compliance with this criterion element.

3. Water column values are derived using the empirical BAF method. For comparative purposes only, the example value displayed in this table represents the lotic water column value for Sheep Creek based on the average BAF for Cutthroat Trout among all sampling locations and years.

4. Lotic Water Column Equation= $Tissue_{criterion}$/BAF
where Tissue criterion is the fish tissue element (whole-body), and BAF is the bioaccumulation factor derived by dividing site-specific field-collected samples of fish tissue (whole-body) by site-specific field-collected samples of water.

5. Water column values are the applicable criterion element in the absence of steady-state condition fish tissue data. In fishless waters, surface water from the fishless waters and fish tissue from the nearest downstream waters are used for bioaccumulation modeling. Fish tissue supersedes any site-specific water column values when fish are sampled downstream of fishless waters.

In May 2022, Idaho Department of Environmental Quality (IDEQ) released for public comment the *Implementation Guidance for the Idaho Selenium Criteria for Aquatic Life* (IDEQ 2022). The guidance document details sampling and monitoring requirements to implement the new selenium criterion. The new selenium criterion will be implemented at SMCM CVF when the guidance document is finalized.

Data Review

The Forest Service reviewed recent surface water and groundwater monitoring reports for the SMCM CVF. The review primarily focused on the annual Data Evaluation Reports and Post Removal Site Control Reports from 2016 through 2022. The surface water and groundwater sampling procedures appear to be consistent with approved work plans.

Historically, total selenium has been the primary COPC associated with mining-related impacts at the Site. Therefore, selenium will be used in contaminant discussions to represent other metals present at the CVF.

Surface Water

Surface water sampling locations relative to SMCM CVF are shown in Appendix B Figure 3-2. Total selenium concentrations are compared to the US EPA Tapwater Regional Screening Level (RSL) of 0.01 milligram per liter. Maybe Creek selenium loads and COPC concentrations are summarized in Appendix E Tables 5-4 and 5-3 respectively. For each monitoring location, the total decrease in total selenium concentration from 2016 to 2021 is calculated by subtracting the most recent concentration from the 2016 concentration. The following observations were made relative to total selenium concentrations (Arcadis 2022):

- Consistent with the results of previous years, total selenium concentrations exceed the surface water screening level at all surface water monitoring locations, except monitoring locations SW-1 and North Fork, which are located upstream of the CVF and upstream of the confluence with Maybe Creek respectively.
- Total selenium concentrations in Maybe Creek near the toe of the CVF (SW-2R) continued to decrease following construction of the CVF cover system during high-flow conditions. The selenium load in 2021 (0.34 pound per day [lb/day]) was 59 percent less than the 2020 selenium

load (0.81 lb/day) (Arcadis 2022) and 99 percent less than the 2016 preconstruction selenium load (22.5 lb/day) (Arcadis 2017).

- Between 2016 and 2021, total selenium concentrations at SW-2R decreased 98 percent during high-flow conditions and 86 percent during low-flow conditions, as shown in Table 4 below.

Monitoring Location	Monitoring Event	Total Selenium Concentration (mg/L)						Total Decrease	
		2016	2017	2018	2019	2020	2021	mg/L	% Decrease
SW-2R	High Flow	2.130	0.127	0.213	0.101	0.062	0.034	2.100	98%
	Low Flow	1.200	0.290	0.263	0.168	0.138	0.165	1.040	86%
SW-13	High Flow	1.580	0.081	0.102	0.141	0.055	0.069	1.510	96%
	Low Flow	0.760	0.189	0.172	0.108	0.089	0.102	0.658	87%
SW-14	High Flow	1.370	0.089	0.100	0.148	0.071	0.075	1.290	95%
	Low Flow	0.727	0.184	0.162	0.101	0.084	0.949	0.632	87%
SW-5	High Flow	1.400	0.087	0.094	0.133	0.070	0.060	1.340	96%
	Low Flow	0.717	0.189	0.158	0.097	0.081	0.073	0.644	90%

Table 4: Total Selenium Concentrations in Maybe Creak Downstream of CVF (2016 to 2021)

- At the CVF spring locations (BS-1R and CD-1R;North Spring R was dry), selenium concentrations at BS-1R were similar during 2021 as in previous years, and concentrations were less than concentrations in 2016, as shown in Table 5 below.

Monitoring Location	Monitoring Event	Total Selenium Concentration (mg/L)						Total Decrease	
		2016	2017	2018	2019	2020	2021	mg/L	% Decrease
BS-1R	High Flow	1.480	0.081	0.078	0.065	0.053	0.046	1.430	97%
	Low Flow	0.165	0.073	0.045	0.038	0.036	0.041	0.124	75%
N Spring R	High Flow	1.770	0.218	0.184	0.296	0.295	--	1.480	83%
	Low Flow	0.581	0.429	0.343	0.356	--	--	0.225	39%
CD-1R	High Flow	2.530	0.100	0.116	0.182	0.063	0.105	2.430	96%
	Low Flow	1.800	0.494	0.538	0.322	0.263	0.342	1.460	81%

Table 5: Total Selenium Concentrations at Spring Locations at the Toe of CVF (2016 to 2021)

- Total selenium concentrations at Maybe Creek spring locations SP-3, located near SW-2R, continued to decrease during high-flow and low-flow conditions compared to previous years.

Monitoring Location	Monitoring Event	Total Selenium Concentration (mg/L)						Total Decrease	
		2016	2017	2018	2019	2020	2021	mg/L	% Decrease
SP-3	High Flow	1.380	0.158	0.127	0.106	0.086	0.065	1.320	95%
	Low Flow	0.390	0.063	0.050	0.031	0.027	0.026	0.364	93%
SP-9	High Flow	0.024	0.006	0.012	0.012	0.005	0.029	0.005	19%
	Low Flow	0.088	0.010	0.026	0.016	0.010	0.038	0.050	56%

Table 6: Total Selenium Concentrations at Spring Locations Near Mabye Creek (2016 to 2021)

The following observations were made relative to other COPCs (non-selenium) concentrations (Appendix E Table 5-3):

- In 2021, concentrations of select COPCs (arsenic, cadmium, chromium, and vanadium) behaved similar to selenium concentrations. During high-flow conditions, concentrations generally decreased compared to previous years;
- In 2021, concentrations of the following COPCs exceeded the Human Health Screening Level (HHSL) and/or Ecological Screening Level (ESL) at one or more surface water monitoring locations: total aluminum, total arsenic, total barium, total boron, total and dissolved cadmium, total iron, total manganese, total thallium, total uranium, total vanadium, alkalinity, and nitrate/nitrite.
    - In 2021, concentrations of total arsenic, total barium, and total boron exceeded the HHSL and/or ESL at all surface water monitoring locations. Concentrations of these three COPCs have exceeded the HHSL and/or ESL at all or most surface water monitoring locations since 2013.

Groundwater

Groundwater sampling locations relative to SMCM CVF are shown in Appendix B Figure 3-2. Groundwater COPC concentrations are summarized in Appendix E Table 5-9. Total selenium concentrations in groundwater were compared to the HHSL of 0.05 milligrams per litre (mg/L) based on the US EPA Maximum Contaminant Level (MCL). For each monitoring well, the total decrease in total selenium concentration from 2016 to 2021 is calculated by subtracting the most recent concentration from the 2016 concentration. The following observations were made relative to total selenium concentrations (Arcadis 2022):

- Total selenium concentrations exceeded the groundwater screening level at all alluvial monitoring wells, except monitoring wells PZ-1 and MC-8, which are located upgradient of the CVF and upgradient of the confluence of Maybe Creek and North Fork, respectively.
- At monitoring well MC-1, which is located near and downgradient of the toe of the CVF North Slope, total selenium concentrations in 2021 were higher than concentrations observed in 2019 and 2020, but were lower than concentrations observed from 2016 through 2018, as shown in Table 7 below.

- Total selenium concentrations at this location behave similar to those at surface water monitoring location SW-2R because of the strong surface water-groundwater connection near the CVF toe.
- Between 2016 and 2021, total selenium concentrations at monitoring well MC-1 decreased 95 percent during high-flow conditions and 80 percent during low-flow conditions, as shown in Table 7 below.

Monitoring Well	Monitoring Event	Total Selenium Concentration (mg/L)						Total Decrease	
		2016	2017	2018	2019	2020	2021	mg/L	% Decrease
MC-1	High Flow	2.110	0.202	0.141	0.106	0.086	0.112	2.000	95%
	Low Flow	1.060	0.335	0.308	0.178	0.142	0.211	0.850	80%

Table 7: Total Selenium Concentrations Downgradient of the CVF Toe (2016 to 2021)

- Farther downgradient from the CVF toe, total selenium concentrations in alluvial groundwater monitored at wells MC-13 and MC-11 generally continued to decrease in 2021 compared to previous years, as shown in Table 8 below.

Monitoring Location	Monitoring Event	Total Selenium Concentration (mg/L)						Total Decrease	
		2016	2017	2018	2019	2020	2021	mg/L	% Decrease
MC-13	High Flow	1.600	0.343	0.229	0.219	0.125	0.137	1.460	91%
	Low Flow	0.954	0.205	0.162	0.105	0.088	0.088	0.867	91%
MC-11	High Flow	1.130	0.637	0.348	0.246	0.173	0.125	1.010	89%
	Low Flow	1.030	0.492	0.286	0.203	0.157	0.139	0.891	87%

Table 8: Total Selenium Concentrations at Wells MC-13 and MC-11 (2016 to 2021)

- Approximately 9,500 feet and 12,800 feet downgradient fo the CVF toe, total selenium concentrations in alluvial groundwater monitored at wells DV-2 and DV-3, respectively, continued to decrease in 2021 compared to previous years, as shown in Table 9 below.

Monitoring Location	Monitoring Event	Total Selenium Concentration (mg/L)						Total Decrease	
		2016	2017	2018	2019	2020	2021	mg/L	% Decrease
DV-2	High Flow	1.020	0.771	0.602	0.434	0.411	0.162	0.858	84%
	Low Flow	0.950	0.381	0.492	0.375	0.284	--	0.666	70%
DV-3	High Flow	0.414	0.272	0.253	0.202	0.195	0.193	0.221	53%
	Low Flow	1.900	0.245	0.319	0.371	0.285	0.250	1.650	87%

Table 9: Total Selenium Concentrations at Wells DV-2 and DV-3 (2016 to 2021)

The following observations were made relative to other COPC (non-selenium) concentrations (Appendix E Table 5-9):

- Concentrations of select COPCs (arsenic, cadmium, chromium, and vanadium) in 2021 were similar to concentrations observed in previous years.

- Downgradient of the CVF, concentrations of total arsenic, total manganese, total uranium, and nitrate/nitrite exceeded the respective HHSLs in one or more monitoring wells.

Site Inspection

The inspection of the Site was conducted on 6/28/2022 (Appendix C). In attendance were Brian Deeken (USFS OSC), Stan Christensen (IDEQ), Nick Nielson (IDEQ), Ben Latham (Arcadis), Gastone Leone (Arcadis), James Williams (NuWest), Jon Bronson (NuWest), and Anjali MacDonald (NuWest). The purpose of the inspection was to assess the protectiveness of the Removal Action.

The surface water drainage features (underdrains, check dams, outfalls, flume, and piping) were all functioning as designed. The north spring outfall was not flowing. However, the new spring east of the headwall structure was observed to still be flowing. Bench armoring and snow removal had reduced most of the erosion on the north slope of CVF. Fencing was observed to be in good condition along the public access road over the top deck of CVF. Vegetation growing on CVF and the borrow areas were green and healthy. It was observed that the check dam improvements on the CVF top deck were functioning as intended to slow water velocity and reduce erosion to the north slope down chute.

It was noted during the inspection that the sign on the top deck of the CVF was deteriorated from weather and sun damage. The sign contained information regarding construction of the Removal Action and was no longer needed.

V. TECHNICAL ASSESSMENT

QUESTION A: Is the Removal Action functioning as intended by the decision documents?

Question A Summary:

Yes, the Interim Removal Action is functioning as intended. The engineered cap and cover system with drainage structures installed as part of the Removal action are performing as intended. The cap and cover system has reduced selenium concentrations in Maybe Creek by as much as 98 percent. Although residual selenium concentrations exceed surface water screening levels, the RAOs continue to be met minimize infiltration to reduce selenium loading, prevent exposure to hazardous substances in CVF, and isolate runoff to reduce flow within the fill). Cleanup levels are anticipated to be met in the future.

Annual PRSC inspections ensure the Interim Removal action is maintained and functioning properly.

Grazing allotment restrictions are in place to protect the Removal Action and allottees are informed of grazing restrictions each year. One grazing infraction occurred on a borrow area adjacent to CVF; however no damage to CVF occurred. Site inspections confirm that grazing is not occurring on CVF. Access controls, such as fencing, signage, and gates are in place and continue to be monitored by NuWest.

QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels, and removal action objectives (RAOs) used at the time of the Removal Action selection still valid?

Question B Summary:

Yes, the RAOs are still valid. RAOs are being met in the following ways:

- The selenium loading to Maybe Creek has been reduced by as much as 99% since the Removal Action was constructed.
- The new cap and cover system prevents exposure of human and ecological receptors to hazardous substances in vegetation in the CVF.
- The cap and cover system with its associated drainage systems isolates and captures precipitation runoff from the CVF to reduce flow from within the fill. This is evident at the the spring, with the 95-98% reduction in concentrations in surface water and groundwater at the toe of CVF.

Although selenium concentrations are significantly reduced, selenium and other COPCs continue to exceed HHSL and ESL in surface water and groundwater.

While there have been changes in Idaho Selenium Criterion for Aquatic Life since the 2012 Action Memorandum was signed, these changes do not affect the protectiveness of the Removal Action because the effectiveness of the remedy is measured against RAOs; sampling of surface water and groundwater have shown a 95-98 percent reduction in contaminants.

QUESTION C: Has any **other** information come to light that could call into question the protectiveness of the Removal Action?

No. One significant maintenance issue was encountered from overtopping of benches due to snowmelt, rilling, and slow vegetation growth, which caused significant erosion. However, this issue was corrected during annual PRSC activities. Annual snow removal on the benches has prevented overtopping of benches due to snowmelt to present. A work plan to armor the benches will be submitted to armor benches and remove the need for annual snow removal in the future.

VI. ISSUES/RECOMMENDATIONS

Table 10: Issues/Recommendations

Issues/Recommendations
OU(s) without Issues/Recommendations Identified in the Five-Year Review:
none

OTHER FINDINGS

In addition, the following are recommendations identified during the FYR that may improve performance of the Removal Action and reduce costs, but do not affect current and/or future protectiveness:

- It was nted during the site inspection that the sediment ponds do not receive much use as there is very little erosion coming from SMCM CVF. Therefore, removal of the sediment pond(s) will be proposed in the future.

- It was noted during the site inspection that one of the signs was degraded by sun damage. Signs at CVF were for informational purposes only. Therefore, degraded signs may be removed as they are no longer needed and not connected to an IC.
- Annual snow removal on the benches was conducted to prevent overtopping of benches due to snow melt each spring. A Bench Armoring Work Plan will be submitted as a more permanent solution to the overtopping issue, removing the need for annual snow removal along the benches.

VII. PROTECTIVENESS STATEMENT

Table 11: Protectiveness Statement

Protectiveness Statement(s)	
Operable Unit: CVF	*Protectiveness Determination:* Short-term Protective
Protectiveness Statement: The Removal Action at the CVF currently protects human health and the environment because it meets RAOs for surface water and groundwater by reducing contamination by as much as 95-98%. Further, the Removal Action at CVF prevents human and ecological exposure to contaminated surface soils and vegetation. Although RAOs are being met at the SMCM CVF, monitoring data shows surface water and groundwater quality standards are not being met. In order for the Removal Action to be protective in the long-term, the following follow-up actions need to be taken: Complete the RI/FS investigation at Maybe Creek and select a remedy that protects human and ecological receptors from remaining surface water and groundwater risks from the CVF.	

VIII. NEXT REVIEW

The next anticipated five-year review report for the SMCM CVF Site will be part of the five year review of the SMCM site-wide remedy.

APPENDIX A – REFERENCE LIST

Arcadis, 2017. *Final 2016 Data Evaluation Report*, South Maybe Canyon Mine, Maybe Creek. Prepared for NuWest Industries, Inc. October 2017.

Arcadis, 2018. *Final 2017 Data Evaluation Report*, South Maybe Canyon Mine, Maybe Creek. Prepared for NuWest Industries, Inc. May 2018.

Arcadis, 2018a. *Final Removal Action Report*, South Maybe Canyon Mine, Cross Valley Fill. Prepared for NuWest Industries, Inc. November 2018.

Arcadis, 2018b. *Final Post-Removal Site Control Plan*, South Maybe Canyon Mine, Cross Valley Fill. Prepared for NuWest Industries, Inc. November 2018.

Arcadis, 2019. *Final 2018 Annual Post-Removal Site Control Report*, South Maybe Canyon Mine, Cross Valley Fill. Prepared for NuWest Industries, Inc. July 2019.

Arcadis, 2019a. *Final 2018 Data Evaluation Report*, South Maybe Canyon Mine, Maybe Creek. Prepared for NuWest Industries, Inc. May 2019.

Arcadis, 2020. *Final 2019 Annual Post-Removal Site Control Report*, South Maybe Canyon Mine, Cross Valley Fill. Prepared for NuWest Industries, Inc. May 2020.

Arcadis, 2020a. *Final 2019 Data Evaluation Report*, South Maybe Canyon Mine, Maybe Creek. Prepared for NuWest Industries, Inc. June 2020.

Arcadis, 2021. *Final 2020 Annual Post-Removal Site Control Report*, South Maybe Canyon Mine, Cross Valley Fill. Prepared for NuWest Industries, Inc. March 2021.

Arcadis, 2021a. *Final 2020 Data Evaluation Report*, South Maybe Canyon Mine, Maybe Creek. Prepared for NuWest Industries, Inc. April 2021.

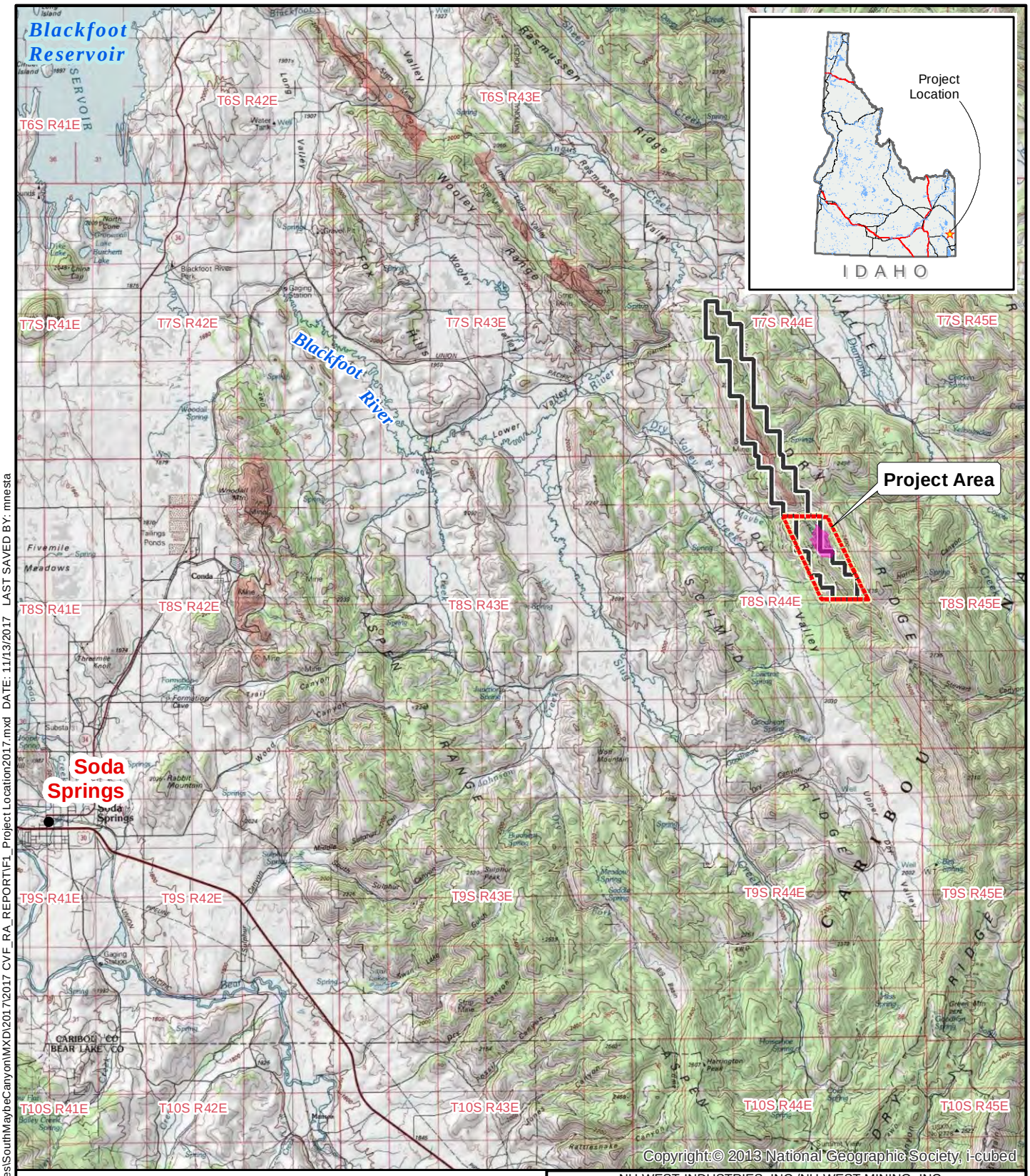
Arcadis, 2022. *Final 2021 Data Evaluation Report*, South Maybe Canyon Mine, Maybe Creek. Prepared for NuWest Industries, Inc. June 2022.

IDEQ, 2022. Implementation Guidance for the Idaho Selenium Criteria for Aquatic Life. State of Idaho Department of Environmental Quality. May 2022.

Millenium Science & Engineering, Inc. (MSE), 2011. *Engineering Evaluation/Cost Analysis*, South Maybe Canyon Mine, Cross Valley Fill. Prepared for the USFS. February 2011.

United States Forest Service (USFS), 2012. *Action Memorandum*, South Maybe Canyon Mine, Cross Valley Fill. January 2012.

APPENDIX B – FIGURES



LEGEND

- PROJECT AREA
- CROSS VALLEY FILL
- MAYBE CANYON EXPLORATION ON-LEASE (I-04)

N

0 1.5 3 Miles

Projection: North America Datum 1983, State Plane, Idaho East Zone
Source: USGS 1:250,000 Scale DRG - Preston (1978), Idaho

NU-WEST INDUSTRIES, INC./NU-WEST MINING, INC.
SOUTH MAYBE CANYON MINE SITE, CROSS VALLEY FILL
CARIBOU COUNTY, IDAHO
REMOVAL ACTION REPORT

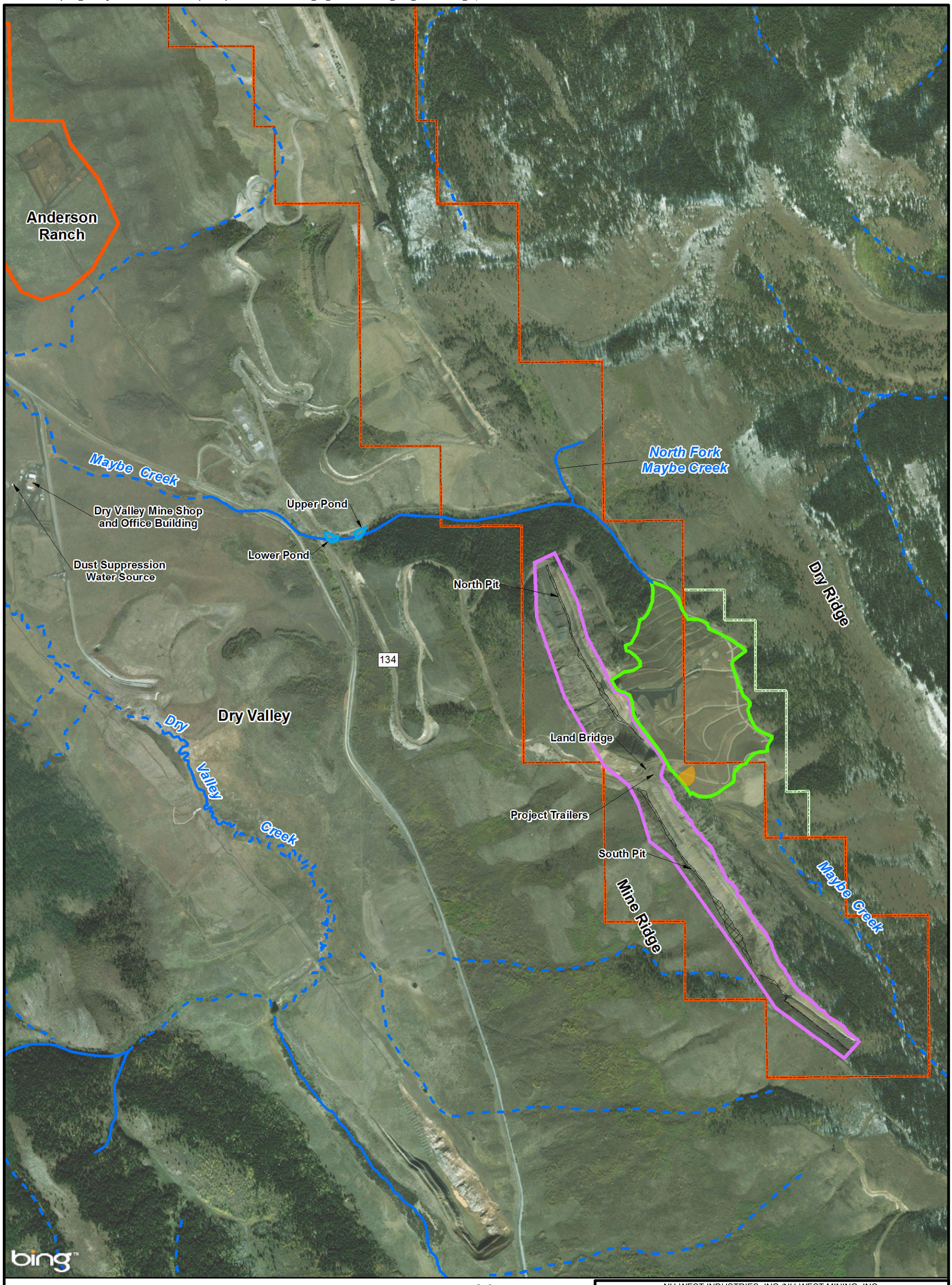
PROJECT LOCATION

ARCADIS

FIGURE 1

CITY: Highlands Ranch,CO DIV/GROUP: IM/DV DB: LD: PIC: PM: SHandy GIS: JChen
PATH: Z:\GISProjects_ENVAgrium\IdahoMines\SouthMaybeCanyon\MXD\2017\2017 CVF_RA_REPORT\F1_Project Location2017.mxd DATE: 11/13/2017 LAST SAVED BY: mnesta

CITY: Highlands Ranch,CO DIV/GROUP: IM/DV DB: LD: PIC: PM: SHandy GIS: JChen
PATH: Z:\GISProjects_ENV\Agrium\IdahoMines\SouthMaybeCanyon\MXD\2017\2017 CVF_RA_REPORT\10.3\F2_SITE_LAYOUT2017_10p3.mxd DATE: 1/5/2018 LAST SAVED BY: mnesta



LEGEND

- PERENNIAL STREAM/RIVER
- INTERMITTENT STREAM/RIVER
- LEASES
- SPECIAL USE PERMIT AREA
- ANDERSON RANCH BORROW AREA
- CROSS VALLEY FILL CONSTRUCTION AREA
- LARGE DEPRESSION
- SOUTH MAYBE PIT LOCATION
- PIT FLOOR
- SETTLING POND
- 134 U.S. FOREST SERVICE ROAD 134

N

0 1,500 3,000

Feet

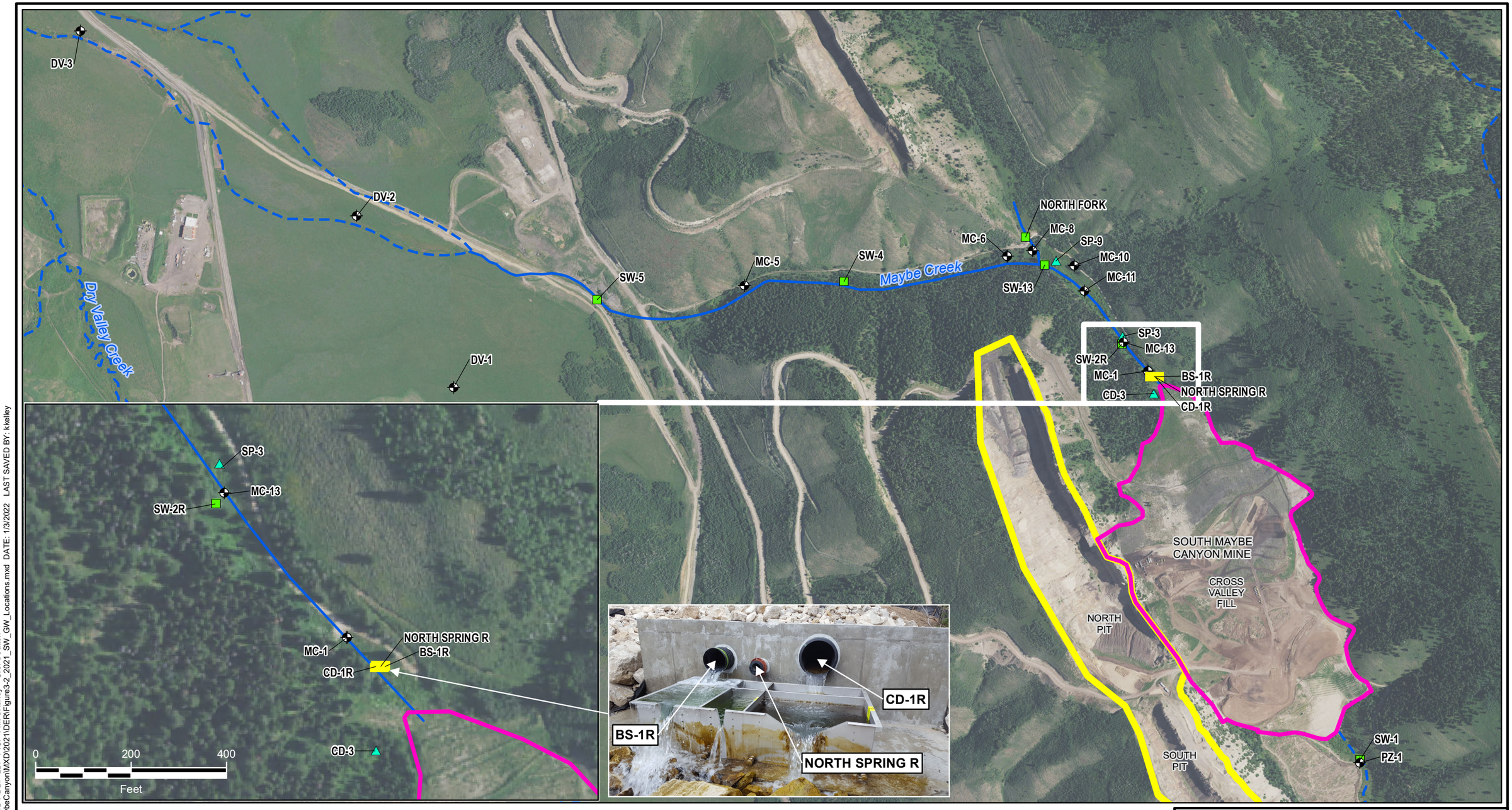
Projection: North America Datum 1983, State Plane, Idaho East Zone

NU-WEST INDUSTRIES, INC./NU-WEST MINING, INC.
SOUTH MAYBE CANYON MINE SITE, CROSS VALLEY FILL
CARIBOU COUNTY, IDAHO
REMOVAL ACTION REPORT

SITE LAYOUT MAP

ARCADIS

FIGURE 2



LEGEND

- SPRING/SEEP
- STREAM
- MONITORING WELL
- CROSS VALLEY FILL
- SOUTH MAYBE CANYON MINE PIT LOCATION
- HEADWALL OUTFALL PIPES
- PERENNIAL STREAM
- INTERMITTENT STREAM

Projection: North America Datum 1983, State Plane, Idaho East Zone
Source: 2015 NAIP Imagery

N

0 1,000 2,000
Feet

NU-WEST INDUSTRIES, INC./NU-WEST MINING, INC.
SOUTH MAYBE CANYON MINE, MAYBE CREEK
CARIBOU COUNTY, IDAHO
2021 DATA EVALUATION REPORT

SURFACE WATER AND GROUNDWATER MONITORING LOCATIONS

ARCADIS

FIGURE 3-2

CITY: Highlands Ranch,CO DIV/GROUP: IM/DV DB: LD: PIC: PM: SHandy GIS: SSutton
PATH: I:_ENV\Agrium\IdahoMines\SouthMaybeCanyon\MXD\2021\DER\Figure3-2_2021_SW_GW_Locations.mxd DATE: 1/3/2022 LAST SAVED BY: kkelley

APPENDIX C – SITE INSPECTION & PHOTOS

South Maybe Canyon Mine (SMCM) Cross Valley Fill (CVF)
Five Year Inspection, June 28, 2022
Field Notes to File

Brian Deeken
USFS Remedial Project Manager

I arrived at the mouth of Maybe Creek at approximately 8:50 am and began the inspection with introductions, safety brief, and an overview of the 5-Year Inspection for SMCM CVF. The weather was warm, clear, and partly cloudy.

The inspection was completed over a series of six stops to observe conditions at various features associated with the 5-Year Review of the SMCM CVF Removal Action.

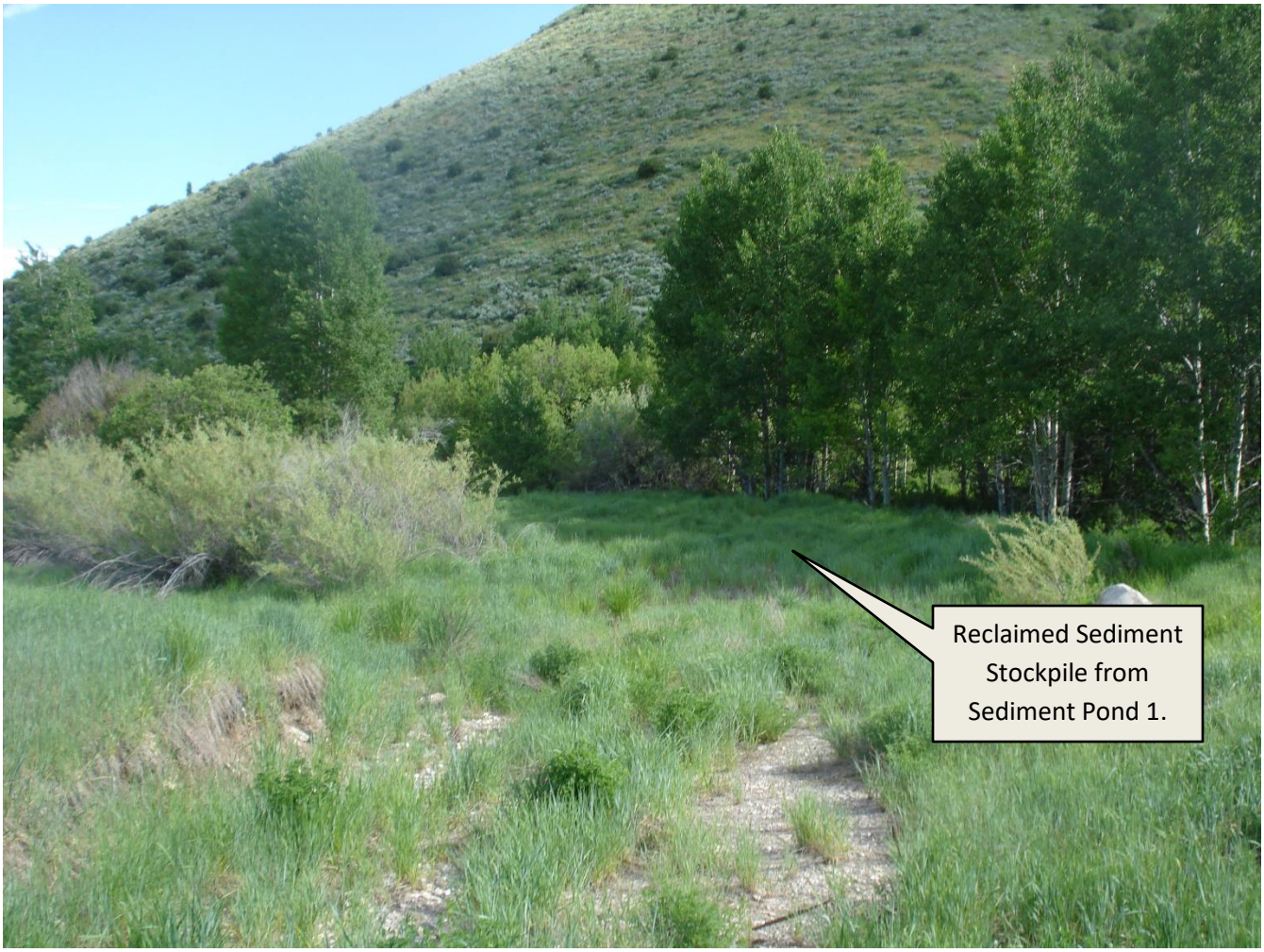
The 5-Year Inspection for the SMCM CVF was attended by the following individuals other than myself:

James Williams – NuWest
Jon Bronson – NuWest
Anjali MacDonald – NuWest
Ben Latham – Arcadis
Gastone Leone – Arcadis
Nick Nielson – IDEQ
Stan Christensen - IDEQ

We then began the inspection at the sediment ponds used for the SMCM CVF at the mouth of Maybe Canyon.

Picture 1 (facing southeast): Sediment pond 2 with grasses, cattails, and clear shallow water. Culvert that routs water under the road is in the bottom left portion of the picture.

Jon Bronson stated that the sediment ponds do not receive much use as there is very little erosion coming from SMCM CVF. Removal of the sediment pond(s) will be proposed in the future.



Picture 2 (facing North): Reclaimed sediment stockpile from Sediment Pond 1. Sediment was removed from Sediment Pond 1 to create more capacity. Removal of the sediment stockpile will occur when the sediment pond(s) are removed.

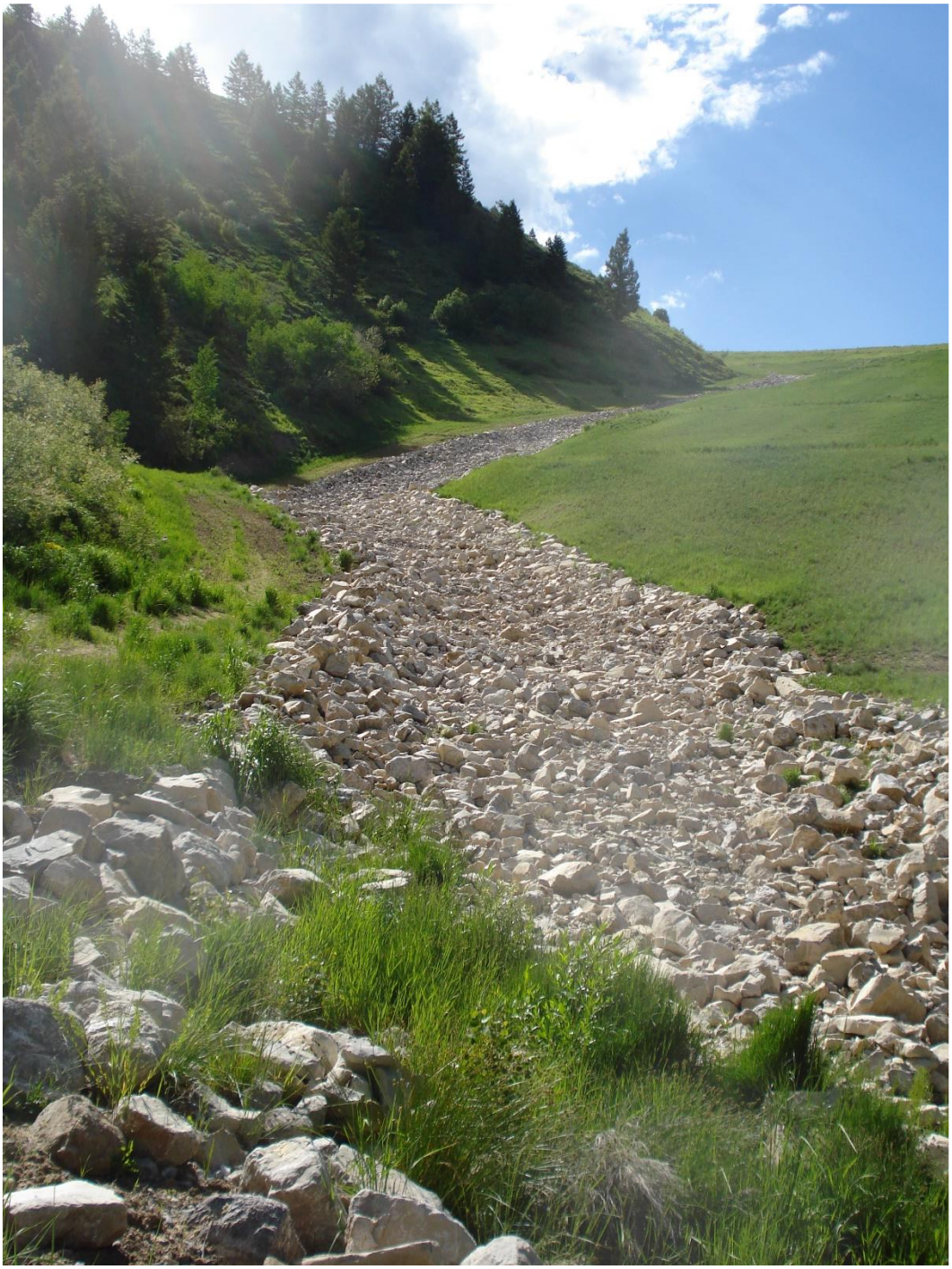
Picture 3 (facing South): Sediment Pond 1 with clear water, insects and some algae. Very little erosion is observed as evidenced by the clear water. Removal of the sediment pond(s) will be proposed in the future.

We then moved to stop 1.

Stop 1 (9:34 am)

The first stop was located at the toe of SMCM CVF. Ben Latham discussed selenium surface water trends at SW-2R and groundwater trends at MC-13. Selenium in general has obtained an approximately 95-98% reduction in both surface water and groundwater. Selenium was noted that it is still trending downward each year. More reductions in surface water and groundwater may occur in future years.

Picture 4 (facing southeast): Toe of SMCM CVF pointed up the face of the revegetated cap and cover.



Picture 5 (facing southeast): Down-chute of the SMCM CVF that routs water from the top deck and toe of the dump down and into Maybe Creek just below the outfall. It was noted that the down-chute was damaged last year from water leaving the top deck too quickly moving some of the rip rap out down the chute. Repairs to the down-chute were successful and future potential damage will be mitigated by check dam improvements made in 2021.

Picture 6: Picture of the outfall for SMCM CVF. The outfall routs water from Maybe Creek that flows under the CVF, the boxed spring, and the north spring (not flowing).

Picture 7 (facing South): Picture of new spring that is still flowing.

Picture 8 (facing northwest): Picture of replacement flume to gauge water flow and sample location SW-2R. Rip-Rap armoring and rechannelization of Maybe Creek reduces the chances of clogging and erosion around the flume.

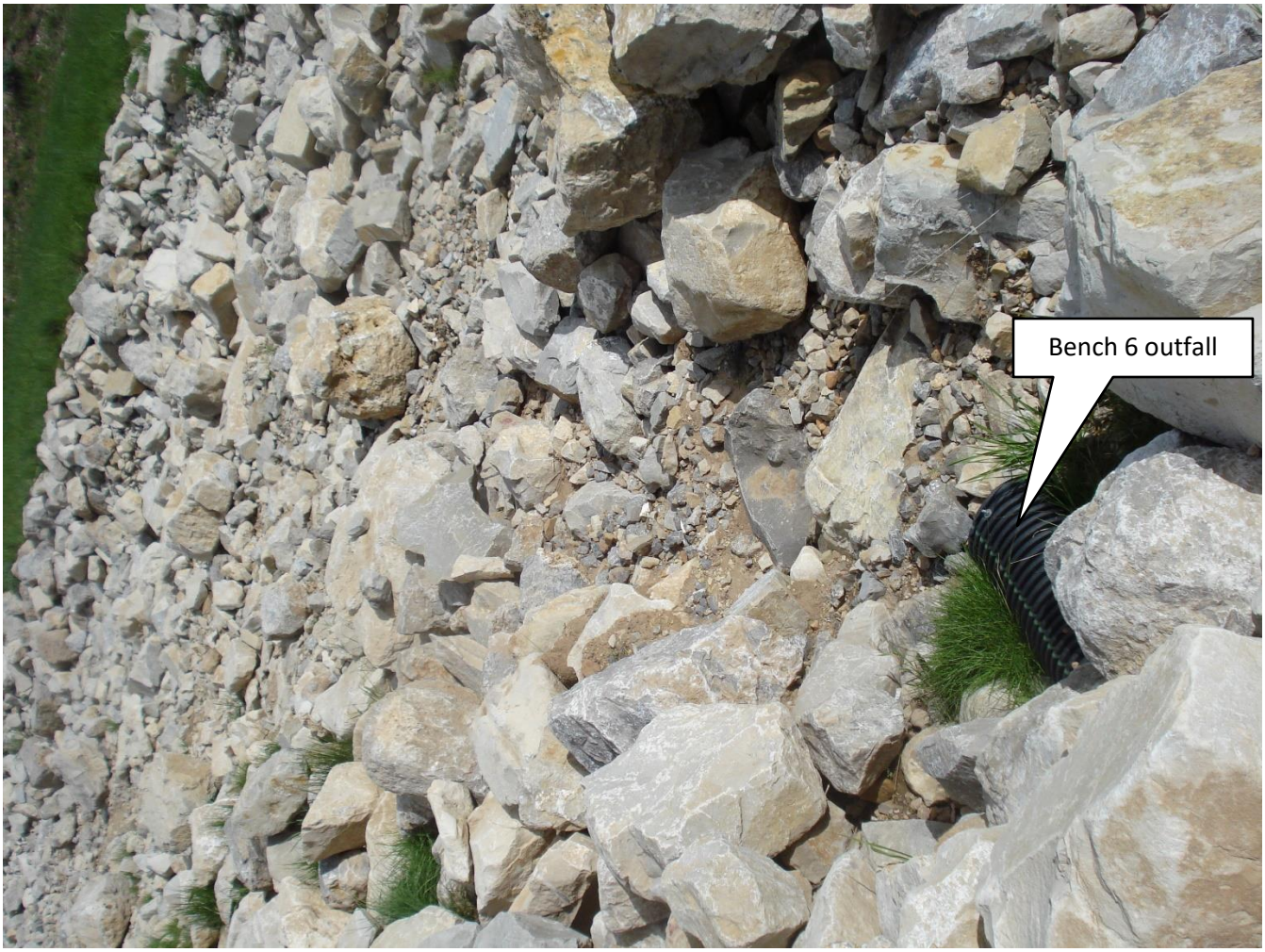
We then moved to stop 2.

Stop 2 (10:27am)

The second stop was located midway up the north slope of the CVF where the benches could be observed. Vegetation was observed growing up through protective mats. Minimal erosion was observed with no significant erosion.

Picture 9 (facing southeast): Picture of the upper north slope of SMCM CVF with vegetation growing.

Picture 10 (facing East): Benches 4 & 5 with vegetation growing up through protective mats. White poles were for snow plowing in the spring to prevent significant erosion.



Picture 11 (facing Northwest): Picture of bench 6 outfall into down-chute.

Picture 12 (facing sourhtwest): Picture of bench 6 with minimal erosion and vegetation growing up through protective mats.

Jon Bronson noted that there may be a proposal to place rock armoring and French drains in each of the benches to encourage drainage during the spring snowmelt and reduce future needs for snow plowing.

We then moved to stop three.

Stop 3 (11:10am)

Stop three was located at an overlook of the SMCM CVF where project trailers were located during construction of the SMCM CVF. It was noted that the sign on the top deck was deteriorated by the weather and

sun damage. The sign contained information regarding construction of the Removal Action and was no longer needed. It was decided that the sign could be removed as it was no longer needed and it was not connected to an Institutional Control.

Picture 13 (facing East): Picture of the top deck of SMCM CVF with armored drainage features and check dams in the background. Vegetation was observed to be growing across the top deck of CVF. Fencing was observed to be in good condition along the roads.

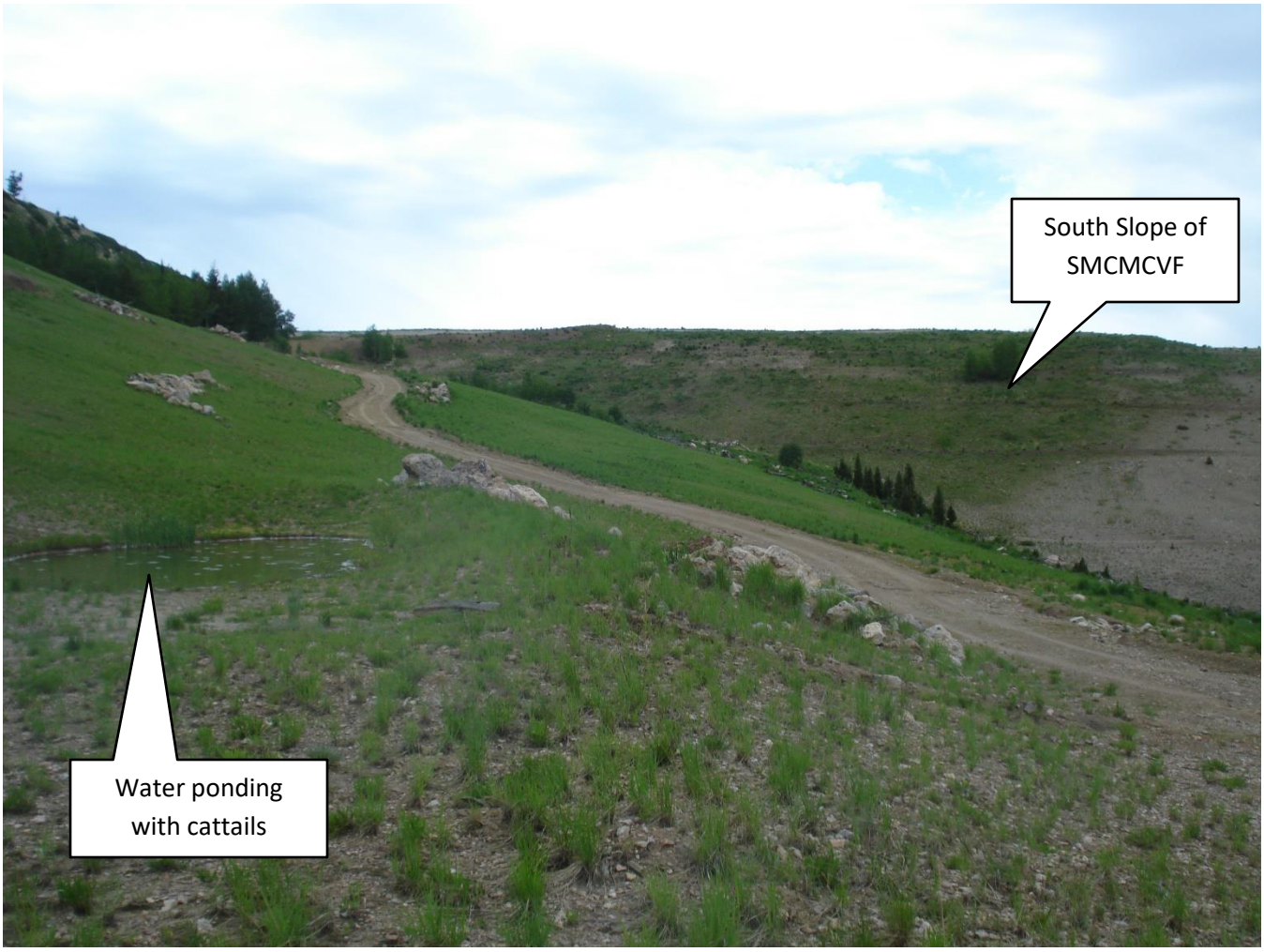
Picture 14 (facing northwest): Picture of the reclaimed West Hillside borrow area. Soil and rock storage piles are in the foreground for maintenance needs.

We then moved to stop 4.

Stop 4 (11:21am)

Stop 4 included the south slope of SMCM CVF and the southern borrow area for cover material at SMCM CVF. Vegetation was growing well. Some minor slumping was observed, but these areas are stable as of the inspection.

Picture 15 (facing south): Picture of vegetation on the south borrow area. Slash from former trees was spread out to prevent erosion after reclamation of the borrow area.

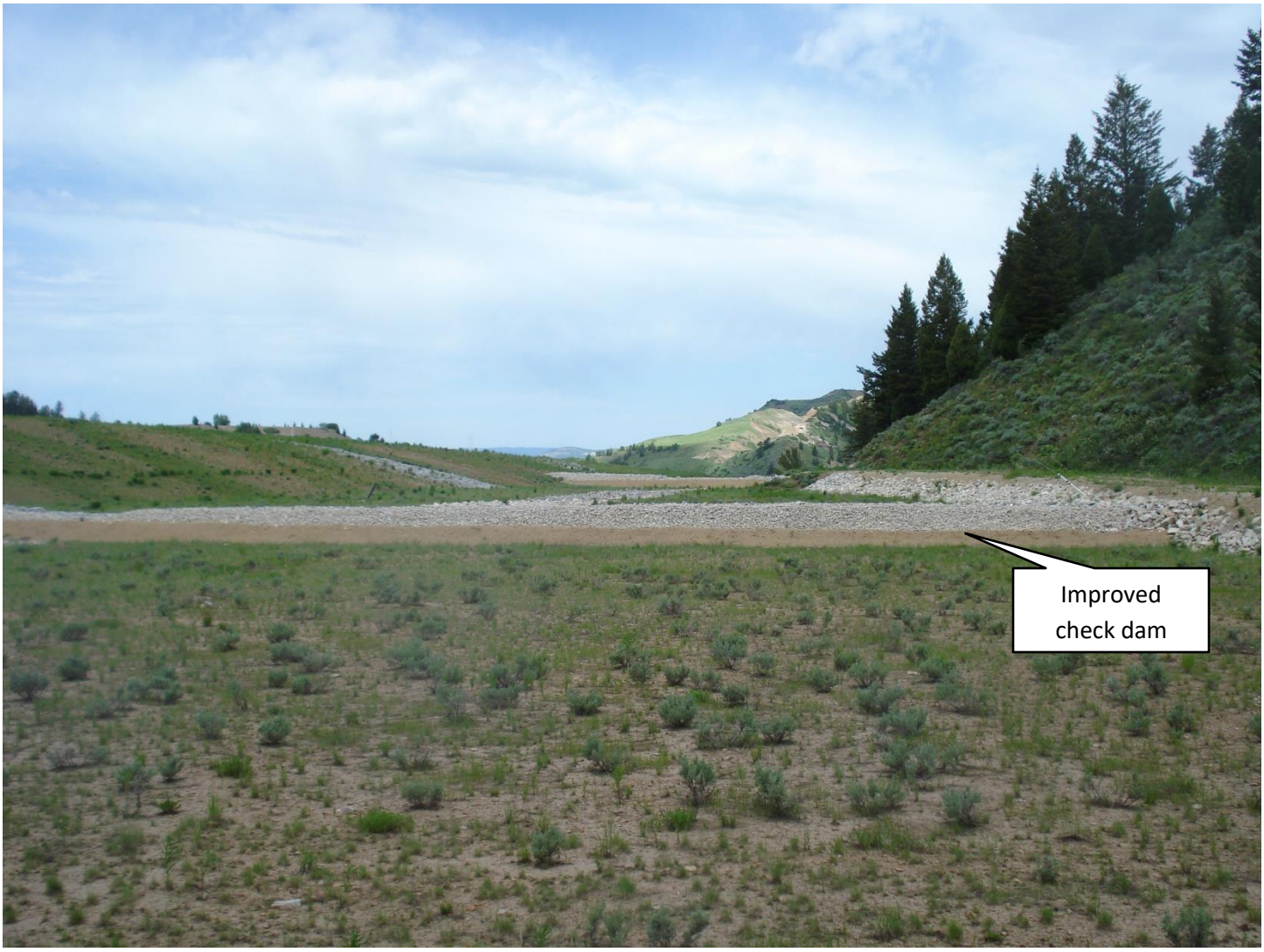


Picture 16 (facing northwest): Picture of the base of the southern borrow area with the south slope of SMCM CVF in the background. Some water ponding was observed at the base of the borrow area with cattails growing.

We then move to stop 5 with some light rain.

Stop 5 (11:36am)

Picture 17 (facing southeast): Picture of the top deck of SMCM CVF with vegetation growing and drainage features. Various grasses were observed with some sagebrush growing.



Picture 18 (facing northwest): Picture of improved check dam. The check dams were improved with a geotextile fabric covered with soil/rock to slow water movement through the check dams. This reduced water moving through the down chute at one time reducing maintenance.

We then moved to stop 6.

Stop 6 (12:08pm):

Stop 6 included the Anderson Ranch borrow area with its reclamation.

Picture 19 (facing north): Picture of the Anderson Ranch borrow area with vegetation growing. Some sagebrush was observed to grow in the reclaimed area.

We then returned to our starting locations where I concluded the inspection of the SMCM CVF for the 5-Year Review at approximately 12:24pm.

A photolog was created (Figures 1 & 2) to show the locations of the pictures taken during the inspection. Approximate picture locations are denoted by the picture number with the direction of the photo shown with an arrow.

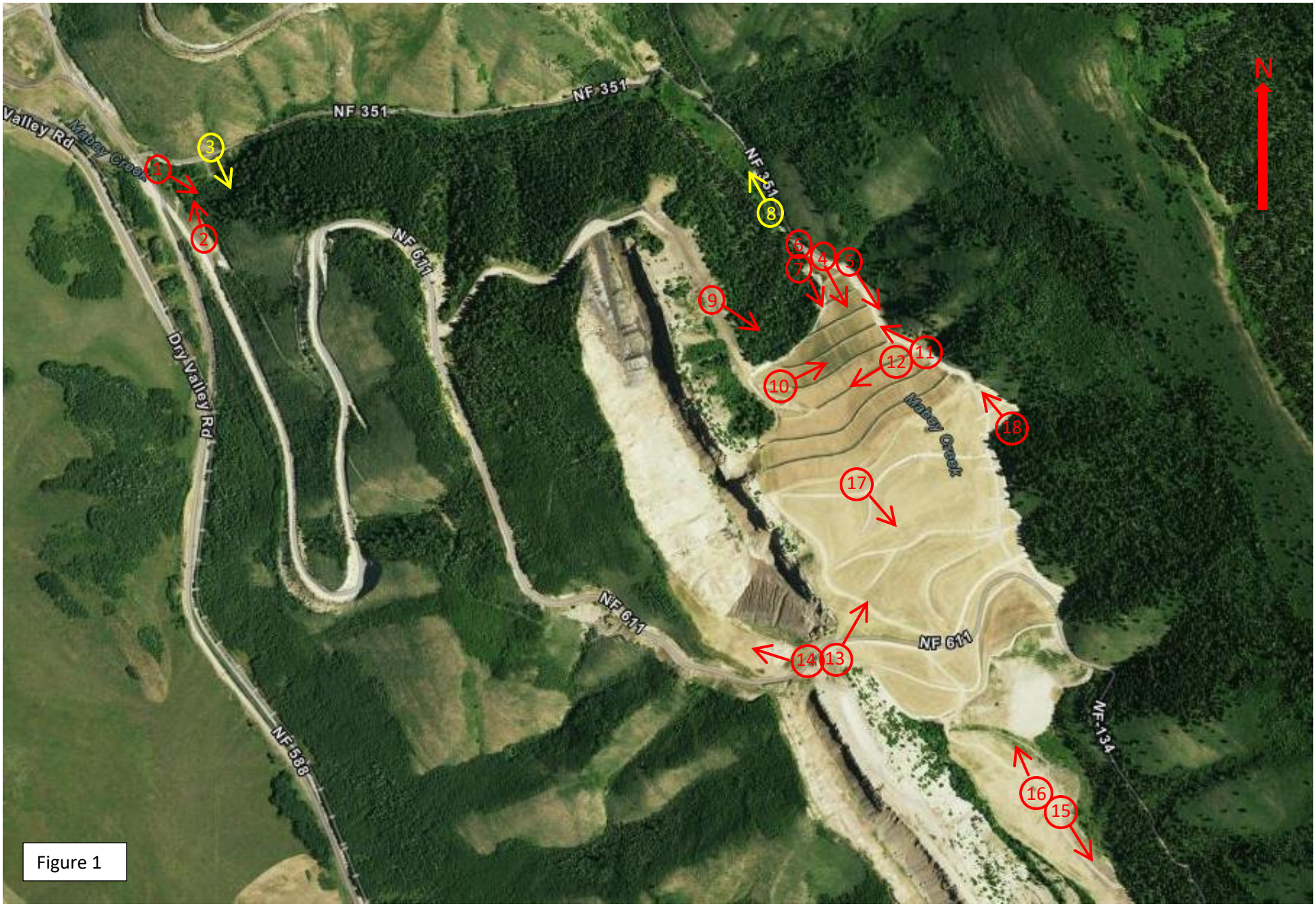

N
NF 351
NF 351
NF 351
Valley Rd
Mabey Creek
NF 611
Dry Valley Rd
NF 611
NF 611
NF 611
Mabey Creek
NF 588
NF-134
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

Figure 1


19
N
Maybe Creek
Dry Valley Rd
Stewart Canyon Rd
Dry Valley Rd
Stewart Canyon Rd
Stewart Canyon Rd
Maybe Creek
Stewart Canyon Rd
Dry Valley Rd

Figure 2

APPENDIX D – SITE INSPECTION CHECKLIST

Five-Year Review Site Inspection Checklist

I. SITE INFORMATION	
Site name: South Maybe Canyon Mine, Cross Valley Fill	**Date of inspection:** June 28, 2022
Location and Region: Soda Springs, Idaho Region 4	**EPA ID:** IDN001002957
Agency, office, or company leading the five-year review: United States Forest Service	**Weather/temperature:** Warm & sunny

Remedy Includes: (Check all that apply)

☒ Landfill cover/containment
☒ Access controls
☒ Institutional controls
☐ Groundwater pump and treatment
☐ Surface water collection and treatment
☐ Other_____
_____

☐ Monitored natural attenuation
☐ Groundwater containment
☐ Vertical barrier walls

Attachments: ☐ Inspection team roster attached ☐ Site map attached

II. INTERVIEWS (Check all that apply)

1. **O&M site manager** ___Jon Bronson, NuWest_____ _Manager, Remediation __06/21/2022_
   Name Title Date
   Interviewed ☐ at site ☒ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____
   _____

2. **O&M staff** _____ _____ _____
   Name Title Date
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____
   _____

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency Idaho Department of Environmental Quality
Contact Stan Christensen Mining Project Coordinator 6/22/2022 _____
Name Title Date Phone no.
Problems; suggestions; ☐ Report attached _____
_____

Agency United States Fish and Wildlife Service
Contact Ryan Braham Env. Contaminants Biologist 06/23/2022 _____
Name Title Date Phone no.
Problems; suggestions; ☐ Report attached _____
_____

Agency Shoshone-Bannock Tribes
Contact Susan Hanson _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐ Report attached _____
_____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐ Report attached _____
_____

4. **Other interviews** (optional) ☐ Report attached.

III. DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **O&M Documents**

☒ O&M manual	☒ Readily available	☒ Up to date	☐ N/A
☒ As-built drawings	☒ Readily available	☒ Up to date	☐ N/A
☒ Maintenance logs	☒ Readily available	☒ Up to date	☐ N/A

Remarks_____

2. **Site-Specific Health and Safety Plan** ☒ Readily available ☒ Up to date ☐ N/A
☐ Contingency plan/emergency response plan ☐ Readily available ☐ Up to date ☒ N/A
Remarks_____

3. **O&M and OSHA Training Records** ☒ Readily available ☒ Up to date ☐ N/A
Remarks Operators and O&M personnel have 40 hour HAZWOPER training.

4. **Permits and Service Agreements**

☐ Air discharge permit	☐ Readily available	☐ Up to date	☒ N/A
☐ Effluent discharge	☐ Readily available	☐ Up to date	☒ N/A
☐ Waste disposal, POTW	☐ Readily available	☐ Up to date	☒ N/A
☐ Other permits_____	☐ Readily available	☐ Up to date	☒ N/A

Remarks Facility operations are in substantive compliance with local requirements.

5. **Gas Generation Records** ☐ Readily available ☐ Up to date ☒ N/A
Remarks_____

6. **Settlement Monument Records** ☒ Readily available ☒ Up to date ☐ N/A
Remarks Settlement monitoring was completed on CVF according to the PRSC Plan.

7. **Groundwater Monitoring Records** ☒ Readily available ☒ Up to date ☐ N/A
Remarks Groundwater monitoring reports are completed annually. 2021 Data Evaluation Report showed up to a 95% decrease in selenium concentrations at the toe of Cross Valley Fill.

8. **Leachate Extraction Records** ☐ Readily available ☐ Up to date ☒ N/A
Remarks_____

9. **Discharge Compliance Records**

☐ Air	☐ Readily available	☐ Up to date	☒ N/A
☒ Water (effluent)	☒ Readily available	☒ Up to date	☐ N/A

Remarks Surface water monitoring reports are completed annually. 2021 Data Evaluation Report showed up to a 98% reduction in selenium concentrations at the toe of Cross Valley Fill.

10. **Daily Access/Security Logs** ☐ Readily available ☐ Up to date ☒ N/A
Remarks_____

IV. O&M COSTS

1. **O&M Organization**

☐ State in-house ☐ Contractor for State
☒ PRP in-house ☐ Contractor for PRP
☐ Federal Facility in-house ☐ Contractor for Federal Facility
☐ Other_____

2. **O&M Cost Records**

☐ Readily available ☒ Up to date
☒ Funding mechanism/agreement in place
Original O&M cost estimate_____ ☐ Breakdown attached

Total annual cost by year for review period if available

From 01/01/2018 (Date)	To 12/31/2018 (Date)	$559,765 (Total cost)	☒ Breakdown attached
From 01/01/2019 (Date)	To 12/31/2019 (Date)	$146,064 (Total cost)	☒ Breakdown attached
From 01/01/2020 (Date)	To 12/31/2020 (Date)	$206,351 (Total cost)	☒ Breakdown attached
From 01/01/2021 (Date)	To 12/31/2021 (Date)	$96,950 (Total cost)	☒ Breakdown attached
From 01/01/2022 (Date)	To 06/30/2022 (Date)	$48,705 (Total cost)	☒ Breakdown attached

3. **Unanticipated or Unusually High O&M Costs During Review Period**

Describe costs and reasons: High O&M costs in 2018 were encountered due to overtopping of benches causing significant erosion to the liner through several benches. Remaining O&M costs for 2022 are anticipated to be minor (reporting costs).

V. ACCESS AND INSTITUTIONAL CONTROLS ☒ Applicable ☐ N/A

A. Fencing

1. **Fencing damaged** ☐ Location shown on site map ☒ Gates secured ☐ N/A

Remarks Fencing is in good repair.

B. Other Access Restrictions

1. **Signs and other security measures** ☐ Location shown on site map ☒ N/A

Remarks Signs are for informational purposes only.

C. Institutional Controls (ICs)

1. **Implementation and enforcement**

Site conditions imply ICs not properly implemented ☐ Yes ☒ No ☐ N/A

Site conditions imply ICs not being fully enforced ☐ Yes ☒ No ☐ N/A

Type of monitoring (*e.g.*, self-reporting, drive by) Self-reporting

Frequency Annually in Data Evaluation Report

Responsible party/agency NuWest Inc.

Contact Jon Bronson (Name) Manager, Remediation (Title) _____ (Date) _____ (Phone no.)

Reporting is up-to-date ☒ Yes ☐ No ☐ N/A

Reports are verified by the lead agency ☒ Yes ☐ No ☐ N/A

Specific requirements in deed or decision documents have been met ☐ Yes ☐ No ☒ N/A

Violations have been reported ☒ Yes ☐ No ☐ N/A

Other problems or suggestions: ☐ Report attached

Inadvertent sheep grazing on reclaimed borrow area was encountered in past years. The Allottee was contacted and this problem was not encountered in subsequent years.

2. **Adequacy** ☒ ICs are adequate ☐ ICs are inadequate ☐ N/A

Remarks_____

D. General

1. **Vandalism/trespassing** ☐ Location shown on site map ☒ No vandalism evident

Remarks_____

2. **Land use changes on site** ☒ N/A

Remarks_____

3. **Land use changes off site** ☒ N/A

Remarks_____

VI. GENERAL SITE CONDITIONS

A. Roads ☒ Applicable ☐ N/A

1. **Roads damaged** ☐ Location shown on site map ☒ Roads adequate ☐ N/A

Remarks_____

B. Other Site Conditions

Remarks __Groundwater wells, gates, sediment ponds, and fencing are properly maintained._____

VII. LANDFILL COVERS ☒ Applicable ☐ N/A

A. Landfill Surface

1. **Settlement** (Low spots) ☐ Location shown on site map ☒ Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____
   _____

2. **Cracks** ☐ Location shown on site map ☒ Cracking not evident
   Lengths_____ Widths_____ Depths_____
   Remarks_____
   _____

3. **Erosion** ☒ Minor ☐ Location shown on site map ☐ Erosion not evident
   Areal extent_____ Depth_____
   Remarks_Minor erosion rills evident during inspection, however rills were not active as vegetation was growing in rills. Significant erosional events in past years were addressed during O&M activities.
   _____

4. **Holes** ☐ Location shown on site map ☒ Holes not evident
   Areal extent_____ Depth_____
   Remarks_____
   _____

5. **Vegetative Cover** ☒ Grass ☒ Cover properly established ☒ No signs of stress
   ☐ Trees/Shrubs (indicate size and locations on a diagram)
   Remarks_____
   _____

6. **Alternative Cover (armored rock, concrete, etc.)** ☐ N/A
   Remarks__Armored drainage channels and check dams were maintained._____
   _____

7. **Bulges** ☐ Location shown on site map ☒ Bulges not evident
   Areal extent_____ Height_____
   Remarks_____
   _____

8. **Wet Areas/Water Damage** ☒ Wet areas/water damage not evident
   ☐ Wet areas ☐ Location shown on site map Areal extent_____
   ☐ Ponding ☐ Location shown on site map Areal extent_____
   ☐ Seeps ☐ Location shown on site map Areal extent_____
   ☐ Soft subgrade ☐ Location shown on site map Areal extent_____
   Remarks_____
   _____

9. **Slope Instability** ☐ Slides ☐ Location shown on site map ☒ No evidence of slope instability
Areal extent_____
Remarks_____
_____

B. Benches ☒ Applicable ☐ N/A
(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

1. **Flows Bypass Bench** ☐ Location shown on site map ☒ N/A or okay
Remarks_____
_____

2. **Bench Breached** ☐ Location shown on site map ☒ N/A or okay
Remarks___Benches were breached in the past. However, it was repaired to as-built conditions with bench armoring and snow removal to prevent breaching in the future. No significant erosion present during inspection_____

3. **Bench Overtopped** ☐ Location shown on site map ☒ N/A or okay
Remarks___Benches were overtopped during bench breach in the past. Benches were repaired to as-built conditions with bench armoring and snow removal to prevent overtopping in the future. No overtopping events have occurred since repairs were made._____
_____

C. Letdown Channels ☒ Applicable ☐ N/A
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)

1. **Settlement** ☐ Location shown on site map ☒ No evidence of settlement
Areal extent_____ Depth_____
Remarks_____
_____

2. **Material Degradation** ☐ Location shown on site map ☒ No evidence of degradation
Material type_____ Areal extent_____
Remarks_____
_____

3. **Erosion** ☐ Location shown on site map ☒ No evidence of erosion
Areal extent_____ Depth_____
Remarks____Some rip-rap erosion occurred in past years, However, it was repaired to as-built conditions and does not show any further erosional damage._____
_____

4. **Undercutting** ☐ Location shown on site map ☒ No evidence of undercutting
Areal extent_____ Depth_____
Remarks_____
_____

5. **Obstructions** Type_____ ☒ No obstructions
☐ Location shown on site map Areal extent_____
Size_____
Remarks_____
_____

6. **Excessive Vegetative Growth** Type_____
☒ No evidence of excessive growth
☐ Vegetation in channels does not obstruct flow
☐ Location shown on site map Areal extent_____
Remarks_____
_____

D. Cover Penetrations ☐ Applicable ☒ N/A

1. **Gas Vents** ☐ Active☐ Passive
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☐ Needs Maintenance
☐ N/A
Remarks_____
_____

2. **Gas Monitoring Probes**
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A
Remarks_____
_____

3. **Monitoring Wells** (within surface area of landfill)
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A
Remarks_____
_____

4. **Leachate Extraction Wells**
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A
Remarks_____
_____

5. **Settlement Monuments** ☐ Located ☐ Routinely surveyed ☐ N/A
Remarks_____
_____

E. Gas Collection and Treatment ☐ Applicable ☒ N/A

1. **Gas Treatment Facilities**
   ☐ Flaring ☐ Thermal destruction ☐ Collection for reuse
   ☐ Good condition ☐ Needs Maintenance
   Remarks_____
   _____

2. **Gas Collection Wells, Manifolds and Piping**
   ☐ Good condition ☐ Needs Maintenance
   Remarks_____
   _____

3. **Gas Monitoring Facilities** (*e.g.*, gas monitoring of adjacent homes or buildings)
   ☐ Good condition ☐ Needs Maintenance ☐ N/A
   Remarks_____
   _____

F. Cover Drainage Layer ☒ Applicable ☐ N/A

1. **Outlet Pipes Inspected** ☒ Functioning ☐ N/A
   Remarks_____
   _____

2. **Outlet Rock Inspected** ☒ Functioning ☐ N/A
   Remarks_____
   _____

G. Detention/Sedimentation Ponds ☒ Applicable ☐ N/A

1. **Siltation** Areal extent_____ Depth_____ ☐ N/A
   ☐ Siltation not evident
   Remarks Sediment ponds are inspected annually. Sediment ponds were cleaned out in 2017 and stockpiled nearby._____
   _____

2. **Erosion** Areal extent_____ Depth_____
   ☒ Erosion not evident
   Remarks_____
   _____

3. **Outlet Works** ☒ Functioning ☐ N/A
   Remarks_____
   _____

4. **Dam** ☒ Functioning ☐ N/A
   Remarks_____
   _____

H. Retaining Walls ☐ Applicable ☒ N/A

1. **Deformations** ☐ Location shown on site map ☐ Deformation not evident
   Horizontal displacement_____ Vertical displacement_____
   Rotational displacement_____
   Remarks_____

2. **Degradation** ☐ Location shown on site map ☐ Degradation not evident
   Remarks_____

I. Perimeter Ditches/Off-Site Discharge ☒ Applicable ☐ N/A

1. **Siltation** ☐ Location shown on site map ☒ Siltation not evident
   Areal extent_____ Depth_____
   Remarks Surface water drainage is conveyed away from the landfill in ditches along the top deck toward a down chute along the east side of the north slope.

2. **Vegetative Growth** ☐ Location shown on site map ☐ N/A
   ☒ Vegetation does not impede flow
   Areal extent_____ Type_____
   Remarks_____

3. **Erosion** ☐ Location shown on site map ☒ Erosion not evident
   Areal extent_____ Depth_____
   Remarks_____

4. **Discharge Structure** ☒ Functioning ☐ N/A
   Remarks_____

VIII. VERTICAL BARRIER WALLS ☐ Applicable ☒ N/A

1. **Settlement** ☐ Location shown on site map ☐ Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Performance Monitoring** Type of monitoring_____
   ☐ Performance not monitored
   Frequency_____ ☐ Evidence of breaching
   Head differential_____
   Remarks_____

IX. GROUNDWATER/SURFACE WATER REMEDIES ☐ Applicable ☒ N/A

A. Groundwater Extraction Wells, Pumps, and Pipelines ☐ Applicable ☒ N/A

1. **Pumps, Wellhead Plumbing, and Electrical**
   ☐ Good condition☐ All required wells properly operating ☐ Needs Maintenance ☐ N/A
   Remarks_____
   _____
   _____

2. **Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
   ☐ Good condition☐ Needs Maintenance
   Remarks_____
   _____

3. **Spare Parts and Equipment**
   ☐ Readily available ☐ Good condition☐ Requires upgrade ☐ Needs to be provided
   Remarks_____
   _____

B. Surface Water Collection Structures, Pumps, and Pipelines ☐ Applicable ☒ N/A

1. **Collection Structures, Pumps, and Electrical**
   ☐ Good condition☐ Needs Maintenance
   Remarks_____
   _____

2. **Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
   ☐ Good condition☐ Needs Maintenance
   Remarks_____
   _____

3. **Spare Parts and Equipment**
   ☐ Readily available ☐ Good condition☐ Requires upgrade ☐ Needs to be provided
   Remarks_____
   _____

C. Treatment System ☐ Applicable ☒ N/A

1. **Treatment Train** (Check components that apply)
   ☐ Metals removal ☐ Oil/water separation ☐ Bioremediation
   ☐ Air stripping ☐ Carbon adsorbers
   ☐ Filters_____
   ☐ Additive (*e.g.*, chelation agent, flocculent)_____
   ☐ Others_____
   ☐ Good condition ☐ Needs Maintenance
   ☐ Sampling ports properly marked and functional
   ☐ Sampling/maintenance log displayed and up to date
   ☐ Equipment properly identified
   ☐ Quantity of groundwater treated annually_____
   ☐ Quantity of surface water treated annually_____
   Remarks_____
   _____

2. **Electrical Enclosures and Panels** (properly rated and functional)
   ☐ N/A ☐ Good condition☐ Needs Maintenance
   Remarks_____
   _____

3. **Tanks, Vaults, Storage Vessels**
   ☐ N/A ☐ Good condition☐ Proper secondary containment ☐ Needs Maintenance
   Remarks_____
   _____

4. **Discharge Structure and Appurtenances**
   ☐ N/A ☐ Good condition☐ Needs Maintenance
   Remarks_____
   _____

5. **Treatment Building(s)**
   ☐ N/A ☐ Good condition (esp. roof and doorways) ☐ Needs repair
   ☐ Chemicals and equipment properly stored
   Remarks_____
   _____

6. **Monitoring Wells** (pump and treatment remedy)
   ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
   ☐ All required wells located ☐ Needs Maintenance ☐ N/A
   Remarks_____
   _____

D. Monitoring Data

1. Monitoring Data
   ☒ Is routinely submitted on time ☒ Is of acceptable quality

2. Monitoring data suggests:
   ☐ Groundwater plume is effectively contained ☒ Contaminant concentrations are declining

D. Monitored Natural Attenuation

1. **Monitoring Wells** (natural attenuation remedy)
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ All required wells located ☐ Needs Maintenance ☒ N/A
Remarks_____
_____

X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).
The 95% reduction in surface water and groundwater concentrations indicate the cap and cover system is functioning as intended. The cap and cover system is intact and any signs of damage have been repaired._____
_____

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.
The O&M is adequate and the cap and cover continues to function as designed._____
_____

C.	Early Indicators of Potential Remedy Problems
	Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. Unexpected costs were encountered in 2018 when overtopping of the benches due to snowmelt created a significant erosional event. This was repaired to as-built conditions and benches were armored with annual snow removal to prevent overtopping in the future. No significant erosion has occurred since this time.
D.	**Opportunities for Optimization**
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. During inspection on 06/28/2022 Jon Bronson noted that the benches could be further armored to remove the need for future snow plowing of the benches. It was also noted that the informational signs could be removed as they were no longer needed.

APPENDIX E - SUPPORTING TABLES

Table 5-3
Surface Water Analytical Sample Results
2021 Data Evaluation Report
South Maybe Canyon Mine, Maybe Creek
Caribou County, Idaho

			Analyte	Chloride		Nitrate/Nitrite		Sulfate		A/C Balance (+/- 5)		Alkalinity		Alkalinity, Bicarbonate		Alkalinity, Carbonate	
			Fraction														
			HHSL	250		3.2/0.2[a]		250		--		--		--		--	
			HHSL Source	Secondary MCL		Tapwater RSL		Secondary MCL		--		--		--		--	
			ESL	230		--		370		--		20		--		--	
			ESL Source	NRWQC		--		MDEQ		--		NRWQC		--		--	
			Unit	mg/L		mg/L		mg/L		%		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cross Valley Fill Springs																	
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	**1.42**		**0.509**		**25.6**		**0.8**		**198**		**198**		3	U
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	**1.40**		**0.497**		**22.2**		**4.1**		**210**		**210**		0.6	U
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**1.58**		**0.760**		**48.0**		**1.3**		**170**		**170**		3	U
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	**3.85**		**0.658**		**177**		**2.1**		**237**		**237**		0.6	U
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**1.65**		**0.789**		**49.0**		**3.5**		**167**		**167**		3	U
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	**3.86**		**0.648**		**163**		**3.4**		**239**		**239**		0.6	U
Maybe Creek Springs																	
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	**1.48**		**1.31**		**42.9**		**0.8**		**205**		**205**		3	U
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	**1.38**		**0.237**		**21.3**		**2.4**		**201**		**201**		0.6	U
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**2.37**		**0.141**		**25.5**		**0.8**		**196**		**196**		3	U
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**1.90**		**0.132**		**44.4**		**2.7**		**222**		**222**		0.6	U
Maybe Creek																	
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**1.03**		**0.221**		**8.31**		**1.5**		**158**		**158**		3	U
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**0.97**		**2.25**		**39.3**		**3.7**		**105**		**105**		3	U
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**0.82**		**2.23**		**39.0**		**3.2**		**106**		**106**		3	U
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	**2.39**		**0.529**		**87**		**2.3**		**224**		**224**		0.6	UJ
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	**2.39**		**0.527**		**85.2**		**2.4**		**222**		**216**		**6.8**	J
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**1.39**		**1.71**		**51.6**		**2.8**		**157**		**157**		3	U
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**1.86**		**0.372**		**58.8**		**3.8**		**211**		**211**		0.6	U
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**1.43**		0.006	U	**5.75**		**1.9**		**200**		**190**		**10.0**	
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**1.41**		**1.77**		**52.5**		**2.1**		**161**		**158**		**3**	J
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**1.92**		**0.347**		**57.5**		**2.3**		**204**		**193**		**11.0**	
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**1.17**		**1.96**		**47.9**		**3**		**140**		**139**		3	U
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**2.17**		0.006	U	**56.3**		**3.1**		**190**		**190**		0.6	U

Table 5-3
Surface Water Analytical Sample Results
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South Maybe Canyon Mine, Maybe Creek
Caribou County, Idaho

			Analyte	Alkalinity, Hydroxide		Anions		Cations		Solids, Total Dissolved Calculated		Total Dissolved Solids		Total Dissolved Solids Balance		Hardness	
			Fraction													Total	
			HHSL	--		--		--		--		500		--		--	
			HHSL Source	--		--		--		--		Secondary MCL		--		--	
			ESL	--		--		--		--		--		--		--	
			ESL Source	--		--		--		--		--		--		--	
			Unit	mg/L		meq/L		meq/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cross Valley Fill Springs																	
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	3	U	**4.47**		**4.54**		**228.79**		**252**		**1.10**		**219**	
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	0.6	U	**4.63**		**5.02**		**241.80**		**238**		**0.98**		**239**	
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	3	U	**4.39**		**4.5**		**233.08**		**251**		**1.08**		**219**	
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	0.6	U	**8.46**		**8.82**		**481.48**		**470**		**0.98**		**425**	
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	3	U	**4.35**		**4.67**		**235.769**		**251**		**1.06432852**		**223**	
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	0.6	U	**8.2**		**8.77**		**468.06**		**493**		**1.05**		**425**	
Maybe Creek Springs																	
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	3	U	**4.97**		**4.88**		**257.34**		**275**		**1.06835952**		**237**	
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	0.6	U	**4.44**		**4.65**		**229.01**		**229**		**1.00**		**228**	
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	3	U	**4.45**		**4.53**		**229.071**		**244**		**1.06488866**		**216**	
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	0.6	U	**5.34**		**5.64**		**283.59**		**301**		**1.06**		**271**	
Maybe Creek																	
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	3	U	**3.31**		**3.41**		**165.001**		**175**		**1.06023457**		**166**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	3	U	**2.91**		**3.13**		**162.95**		**190**		**1.16**		**146**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	3	U	**2.92**		**3.11**		**162.66**		**190**		**1.17**		**151**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	0.6	U	**6.28**		**6.59**		**343.44**		**352**		**1.02**		**318**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	0.6	U	**6.23**		**6.53**		**338.89**		**350**		**1.03**		**315**	
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	3	U	**4.20**		**4.44**		**229.46**		**257**		**1.11950013**		**213**	
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	0.6	U	**5.43**		**5.85**		**294.28**		**322**		**1.09**		**279**	
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	0.6	U	**4.1**		**4.25**		**205.55**		**214**		**1.04**		**204**	
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	3	U	**4.3**		**4.49**		**233.74**		**253**		**1.08**		**212**	
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	0.6	U	**5.27**		**5.51**		**282.66**		**304**		**1.08**		**268**	
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	3	U	**3.78**		**4.01**		**208.16**		**233**		**1.12**		**192**	
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	0.6	U	**4.97**		**5.29**		**268.52**		**291**		**1.08**		**252**	

Table 5-3
Surface Water Analytical Sample Results
2021 Data Evaluation Report
South Maybe Canyon Mine, Maybe Creek
Caribou County, Idaho

			Analyte	Hardness		Total Suspended Solids		Aluminum		Aluminum		Antimony		Antimony		Arsenic	
			Fraction	Dissolved				Total		Dissolved		Total		Dissolved		Total	
			HHSL	--		--		0.05		--		0.00078		--		0.000052	
			HHSL Source	--		--		Secondary MCL		--		Tapwater RSL		--		Tapwater RSL	
			ESL	--		--		0.49[b]		--		0.03		--		0.15	
			ESL Source	--		--		CDPHE		--		ORNL Tier II		--		IDWQS	
			Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cross Valley Fill Springs																	
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	**218**		5.0	U	0.0080	UB	0.0027	UB	**0.000029**	J	**0.000035**	J	**0.00023**	J
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	**241**		5.0	U	0.0018	UB	0.0016	UB	0.000020	U	0.000025	UB	**0.00011**	J
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**216**		5.0	U	**0.0119**		0.0019	UB	**0.000121**		**0.000132**		**0.00048**	J
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	**426**		5.0	U	0.0024	UB	0.0015	UB	0.000153	UB	0.000125	UB	**0.00043**	J
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**225**		5.0	U	**0.0451**		0.0018	UB	**0.000130**		**0.000122**		**0.00046**	J
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	**424**		5.0	U	0.0061	UB	0.0016	UB	0.000126	UB	0.000134	UB	**0.00042**	J
Maybe Creek Springs																	
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	**235**		5.0	U	**0.0141**		0.0017	UB	0.000034	UB	0.000033	UB	**0.00015**	J
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	**224**		5.0	U	**0.0420**		0.0020	UB	0.000026	UB	0.000028	UB	**0.00017**	J
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**216**		**14.5**		**0.0564**		0.0029	UB	0.000020	U	0.000020	U	**0.00014**	J
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**271**		5.0	U	**0.0519**		0.0021	UB	0.000032	UB	0.000020	U	**0.00021**	J
Maybe Creek																	
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**164**		**6.0**		**0.229**		0.0027	UB	**0.000046**	J	**0.000037**	J	**0.00032**	J
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**151**		**24.5**		**0.799**		0.0025	UB	**0.000077**		**0.000057**		**0.00071**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**149**		**24.0**		**0.863**		0.0027	UB	**0.000099**		**0.000084**		**0.00073**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	**318**		5.0	U	**0.0658**	J	0.0019	UB	0.000073	UB	0.000072	UB	**0.00028**	J
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	**314**		5.0	U	**0.0468**	J	0.0020	UB	0.000077	UB	0.000120	UB	**0.00025**	J
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**214**		**8.0**		**0.188**		0.0040	UB	0.000079	UB	0.000074	UB	**0.00049**	J
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**282**		5.0	U	**0.157**		0.0031	UB	0.000064	UB	0.000055	UB	**0.00036**	J
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**202**		**21.0**		**0.422**		0.0026	UB	0.000026	UB	0.000020	UB	**0.00028**	J
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**216**		**11.0**		**0.302**		0.0024	UB	**0.000081**		**0.000073**		**0.00051**	
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**266**		5.0	U	**0.231**		0.0038	UB	0.000058	UB	0.000059	UB	**0.00042**	J
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**193**		**6.5**		**0.417**		0.0031	UB	**0.000068**		**0.000093**		**0.00054**	
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**252**		**17.5**		**0.443**		0.0032	UB	0.000095	UB	0.000071	UB	**0.00086**	

Table 5-3
Surface Water Analytical Sample Results
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			Analyte	Arsenic		Barium		Barium		Beryllium		Beryllium		Boron		Boron	
			Fraction	Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved	
			HHSL	--		0.38		--		0.0025		--		0.4		--	
			HHSL Source	--		Tapwater RSL		--		Tapwater RSL		--		Tapwater RSL		--	
			ESL	0.15		0.0040		--		0.00066		--		0.0016		--	
			ESL Source	NRWQC		ORNL Tier II		--		ORNL Tier II		--		ORNL Tier II		--	
			Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cross Valley Fill Springs																	
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	**0.00019**	J	**0.0148**		**0.0148**		0.000005	U	0.000005	U	**0.0142**		**0.0135**	
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	**0.00016**	J	**0.0156**		**0.0153**		0.000005	U	0.000005	U	**0.0142**		**0.0128**	
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**0.00047**	J	**0.0135**		**0.0133**		0.000005	U	0.000005	U	**0.0169**		**0.0170**	
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	**0.00044**	J	**0.0253**		**0.0255**		0.000005	U	0.000005	U	**0.0225**		**0.0222**	
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**0.00048**	J	**0.0132**		**0.0134**		0.000005	U	0.000005	U	**0.0164**		**0.0163**	
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	**0.00047**	J	**0.0246**		**0.0251**		0.000005	U	0.000005	U	**0.0222**		**0.0205**	
Maybe Creek Springs																	
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	**0.00014**	J	**0.0177**		**0.0177**		0.000005	U	0.000005	U	**0.0138**		**0.0136**	
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	**0.00018**	J	**0.0165**		**0.0164**		0.000005	U	0.000005	U	**0.0125**		**0.0127**	
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**0.00013**	J	**0.0205**		**0.0195**		0.000005	U	0.000005	U	**0.0151**		**0.0168**	
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**0.00024**	J	**0.0278**		**0.0273**		**0.000007**	J	0.000005	U	**0.0162**		**0.0167**	
Maybe Creek																	
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**0.00027**	J	**0.0164**		**0.0142**		**0.000014**	J	0.000005	U	**0.0138**		**0.0142**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**0.00058**		**0.0188**		**0.0137**		**0.000046**		0.000005	U	**0.0122**		**0.0118**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**0.00056**		**0.0194**		**0.0135**		**0.000056**		0.000005	U	**0.0133**		**0.0129**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	**0.00028**	J	**0.0217**		**0.0214**		0.000005	U	0.000005	U	**0.0165**		**0.0171**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	**0.00027**	J	**0.0218**		**0.0211**		**0.000006**	J	0.000005	U	**0.0169**		**0.0178**	
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**0.00042**	J	**0.0205**		**0.0192**		**0.000009**	J	0.000005	U	**0.0149**		**0.0144**	
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**0.00029**	J	**0.0268**		**0.0249**		**0.000011**	J	0.000005	U	**0.0170**		**0.0170**	
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**0.00022**	J	**0.0198**		**0.0170**		**0.000026**		0.000005	U	**0.0156**		**0.0151**	
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**0.00045**	J	**0.0216**		**0.0192**		**0.000019**	J	0.000005	U	**0.0144**		**0.0144**	
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**0.00034**	J	**0.0232**		**0.0215**		**0.000016**	J	0.000005	U	**0.0175**		**0.0180**	
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**0.00051**		**0.0200**		**0.0172**		**0.000025**		0.000005	U	**0.0136**		**0.0131**	
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**0.00059**		**0.0304**		**0.0269**		**0.000029**		0.000005	U	**0.0213**		**0.0215**	

Table 5-3
Surface Water Analytical Sample Results
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			Analyte	Cadmium		Cadmium			Calcium		Calcium		Chromium		Chromium	
			Fraction	Total		Dissolved			Total		Dissolved		Total		Dissolved	
			HHSL	0.00018		--			--		--		0.1		--	
			HHSL Source	Tapwater RSL		--			--		--		Primary MCL		--	
			ESL	--		0.0006[c]			--		--		--		0.011[d]	
			ESL Source	--		IDWQS			--		--		--		NRWQC, IDWQS	
			Unit	mg/L		mg/L			mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Hardness Corrected ESL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cross Valley Fill Springs																
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	**0.000165**		**0.000173**		0.0009	**63.8**		**63.6**		**0.00051**		**0.00042**	
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	0.000008	U	0.000008	U	0.0009	**71.3**		**71.6**		0.00041	UB	0.00045	UB
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**0.00161**		**0.00160**		0.0009	**60.8**		**60.3**		**0.00117**		**0.00114**	
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	**0.00263**		**0.00266**		0.0013	**119**		**119**		0.00107	UB	0.00108	UB
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**0.00130**		**0.00130**		0.0009	**62.9**		**63.6**		**0.00113**		**0.00105**	
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	**0.00263**		**0.00263**		0.0013	**119**		**119**		0.00107	UB	0.00119	UB
Maybe Creek Springs																
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	0.000008	U	0.000008	U	0.0009	**68.9**		**68.4**		**0.00056**		**0.00057**	
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	0.000008	U	0.000008	U	0.0009	**69.1**		**67.9**		0.00050	UB	0.00049	UB
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**0.000014**	J	0.000008	U	0.0009	**65.4**		**65.8**		**0.00032**		0.00019	UB
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**0.000017**	J	0.000008	U	0.0010	**83.2**		**83.1**		**0.00036**		**0.00018**	J
Maybe Creek																
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**0.000087**		**0.000330**		0.0008	**45.0**		**44.0**		**0.00074**		**0.00047**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**0.000411**		**0.000309**		0.0007	**42.6**		**44.6**		**0.00165**		**0.00084**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**0.000410**		**0.000322**		0.0007	**43.9**		**44.1**		**0.00177**		**0.00079**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	**0.000806**		**0.000783**		0.0011	**91.7**		**91.9**		0.00093	UB	0.00077	UB
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	**0.000824**		**0.000797**		0.0011	**90.9**		**89.5**		0.00092	UB	0.00089	UB
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**0.000373**		**0.000272**		0.0009	**60.8**		**61.6**		**0.00103**		**0.00084**	
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**0.000185**		**0.000140**		0.0010	**82.2**		**82.9**		**0.00119**		**0.00100**	
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**0.000051**		**0.000009**	J	0.0009	**61.0**		**60.7**		**0.00077**		**0.00031**	
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**0.000248**		**0.000149**		0.0009	**61.4**		**62.5**		**0.00121**		**0.00076**	
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**0.000091**		**0.000053**		0.0010	**78.6**		**78.0**		**0.00146**		**0.00120**	
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**0.000210**		**0.000077**		0.0008	**55.6**		**56.3**		**0.00141**		**0.00078**	
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**0.000215**		**0.000087**		0.0010	**71.1**		**71.1**		**0.00107**		**0.00033**	

Table 5-3
Surface Water Analytical Sample Results
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			Analyte	Cobalt		Cobalt		Copper		Copper			Iron		Iron	
			Fraction	Total		Dissolved		Total		Dissolved			Total		Dissolved	
			HHSL	0.0006		--		0.08		--			0.3		--	
			HHSL Source	Tapwater RSL		--		Tapwater RSL		--			Secondary MCL		--	
			ESL	0.023		--		--		0.0076[c]			1		--	
			ESL Source	ORNL Tier II		--		--		IDWQS			NRWQC		--	
			Unit	mg/L		mg/L		mg/L		mg/L			mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Hardness Corrected ESL	Result	Qualifier	Result	Qualifier
Cross Valley Fill Springs																
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	**0.000009**	J	0.000009	U	**0.00013**		**0.00026**		0.022	**0.0048**		**0.0005**	J
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	**0.000013**	J	0.000009	U	**0.00006**	J	**0.00019**		0.024	0.0009	UB	0.0012	UB
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**0.000023**		**0.000017**	J	**0.00053**		**0.00048**		0.022	**0.0080**		**0.0004**	J
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	**0.000032**		**0.000025**		**0.00047**		**0.00042**		0.039	0.0013	UB	0.0011	UB
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**0.000043**		**0.000015**	J	**0.00058**		**0.00050**		0.023	**0.0362**		0.0011	UB
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	**0.000025**		**0.000025**		**0.00045**		**0.00050**		0.039	0.0051	UB	0.0010	UB
Maybe Creek Springs																
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	**0.000014**	J	0.000009	U	**0.00009**	J	**0.00099**		0.024	**0.0135**		**0.0004**	J
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	**0.000038**		**0.000010**	J	**0.00012**		**0.00014**		0.023	**0.0491**		0.0003	U
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**0.000048**		**0.000021**		**0.00014**		**0.00015**		0.022	**0.134**		**0.0044**	
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**0.000151**		**0.000124**		**0.00022**		**0.00011**		0.027	**0.381**		**0.190**	
Maybe Creek																
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**0.000104**		**0.000012**	J	**0.00047**		**0.00063**		0.018	**0.218**		0.0015	UB
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**0.000236**		**0.000019**	J	**0.00102**		**0.00056**		0.016	**0.562**		**0.0006**	J
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**0.000240**		**0.000018**	J	**0.00111**		**0.00058**		0.016	**0.595**		**0.0006**	J
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	**0.000033**		**0.000021**		**0.00029**		**0.00028**		0.031	**0.0495**		0.0005	UB
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	**0.000041**		**0.000024**		**0.00028**		**0.00032**		0.030	**0.0394**		0.0005	UB
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**0.000100**		**0.000030**		**0.00057**		**0.00037**		0.022	**0.166**		**0.0013**	J
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**0.000096**		**0.000044**		**0.00048**		**0.00079**		0.027	**0.147**		0.0046	UB
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**0.000289**		**0.000020**		**0.00102**		**0.00025**		0.021	**0.478**		0.0021	UB
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**0.000157**		**0.000019**	J	**0.00066**		**0.00052**		0.022	**0.277**		**0.0007**	J
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**0.000105**		**0.000029**		**0.00066**		**0.00031**		0.026	**0.199**		0.0014	UB
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**0.000153**		**0.000026**		**0.00084**		**0.00122**		0.020	**0.360**		**0.0014**	J
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**0.000220**		**0.000073**		**0.00109**		**0.00052**		0.025	**0.470**		0.0049	UB

Table 5-3
Surface Water Analytical Sample Results
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South Maybe Canyon Mine, Maybe Creek
Caribou County, Idaho

			Analyte	Lead		Lead			Magnesium		Magnesium		Manganese		Manganese		
			Fraction	Total		Dissolved			Total		Dissolved		Total		Dissolved		
			HHSL	0.015		--			--		--		0.043		--		
			HHSL Source	Primary MCL, Tapwater RSL		--			--		--		Tapwater RSL		--		
			ESL	--		0.0025[c]			--		--		0.12		1.650[c]		
			ESL Source	--		NRWQC, IDWQS			--		--		ORNL Tier II		CDPHE		
			Unit	mg/L		mg/L			mg/L		mg/L		mg/L		mg/L		
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Hardness Corrected ESL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Hardness Corrected ESL
Cross Valley Fill Springs																	
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	0.000006	U	**0.000009**	J	0.0058	**14.4**		**14.3**		**0.00060**		**0.00022**	J	2.1
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	0.000012	UB	0.000012	UB	0.0064	**14.8**		**15.2**		0.00029	UB	0.00029	UB	2.2
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**0.000010**	J	0.000006	U	0.0058	**16.2**		**16.0**		**0.00111**		**0.00024**	J	2.1
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	0.000008	UB	0.000008	UB	0.0116	**31.0**		**31.4**		0.00070	UB	0.00056	UB	2.7
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**0.000044**		**0.000007**	J	0.0060	**16.0**		**16.0**		**0.00376**		**0.00022**	J	2.2
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	0.000008	UB	0.000008	UB	0.0116	**31.0**		**30.9**		0.00092	UB	0.00042	UB	2.7
Maybe Creek Springs																	
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	**0.000015**	J	**0.000047**		0.0063	**15.8**		**15.5**		**0.00134**		**0.00009**	J	2.2
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	0.000048	UB	0.000008	UB	0.0061	**13.4**		**13.2**		0.00513	UB	0.00036	UB	2.2
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**0.000046**		**0.000010**	J	0.0058	**12.7**		**12.6**		**0.0946**		**0.0593**		2.1
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**0.000062**		**0.000010**	J	0.0073	**15.4**		**15.4**		**0.510**		**0.494**		2.3
Maybe Creek																	
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**0.000173**		**0.000019**	J	0.0043	**13.1**		**13.1**		**0.0248**		**0.00078**		2.0
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**0.000437**		0.000006	U	0.0038	**9.73**		**9.51**		**0.0221**		**0.00038**	J	1.9
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**0.000473**		**0.000010**	J	0.0039	**10.0**		**9.53**		**0.0243**		**0.00037**	J	1.9
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	0.000054	UB	0.000006	U	0.0086	**21.7**		**21.5**		0.00623	UB	0.00310	UB	2.4
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	0.000050	UB	0.000010	UB	0.0086	**21.4**		**22.1**		0.00625	UB	0.00310	UB	2.4
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**0.000144**		**0.000009**	J	0.0057	**14.9**		**14.5**		**0.0159**		**0.00659**		2.1
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**0.000138**		**0.000012**	J	0.0075	**18.0**		**18.2**		**0.0452**		**0.0381**		2.3
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**0.000490**		**0.000032**		0.0054	**12.5**		**12.3**		**0.0314**		**0.00130**		2.1
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**0.000224**		**0.000018**	J	0.0056	**14.3**		**14.5**		**0.0247**		**0.00280**		2.1
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**0.000181**		**0.000008**	J	0.0072	**17.5**		**17.2**		**0.0154**		**0.00460**		2.3
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**0.000272**		**0.000014**	J	0.0051	**12.8**		**12.7**		**0.0258**		**0.00559**		2.0
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**0.000324**		**0.000008**	J	0.0068	**18.2**		**18.1**		**0.141**		**0.0674**		2.2

Table 5-3
Surface Water Analytical Sample Results
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			Analyte	Mercury		Mercury		Molybdenum		Molybdenum		Nickel		Nickel		
			Fraction	Total		Dissolved		Total		Dissolved		Total		Dissolved		
			HHSL	0.000063		--		0.01		--		0.039		--		
			HHSL Source	Tapwater RSL		--		Tapwater RSL		--		Tapwater RSL		--		
			ESL	0.0013		0.00077		0.37		--		--		0.052[c]		
			ESL Source	ORNL Tier II		NRWQC		ORNL Tier II		--		--		NRWQC, IDWQS		
			Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Hardness Corrected SL
Cross Valley Fill Springs																
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	0.00002	U	0.00002	U	**0.00036**		**0.00036**		**0.00195**		**0.00194**		0.10
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	0.00007	UB	0.00003	UB	**0.00006**	J	**0.00005**	J	0.00015	UB	0.00010	UB	0.11
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	0.00002	U	0.00002	U	**0.00327**		**0.00327**		**0.0171**		**0.0170**		0.10
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	0.00007	UB	0.00002	U	**0.00391**		**0.00394**		**0.0319**		**0.0317**		0.18
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	0.00002	U	0.00002	U	**0.00279**		**0.00293**		**0.0152**		**0.0150**		0.10
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	0.00005	UB	0.00004	UB	**0.00387**		**0.00396**		**0.0312**		**0.0327**		0.18
Maybe Creek Springs																
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	0.00002	U	0.00002	U	**0.00164**		**0.00158**		**0.00005**	J	**0.00011**	J	0.11
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	0.00002	U	0.00004	UB	**0.00130**		**0.00121**		0.00019	UB	0.00009	UB	0.10
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	0.00002	U	0.00002	U	**0.00008**	J	**0.00010**	J	**0.00017**	J	**0.00013**	J	0.10
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	0.00002	U	0.00002	U	0.00009	UB	0.00008	UB	**0.00039**		**0.00028**		0.12
Maybe Creek																
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	0.00002	U	0.00002	U	**0.00024**		**0.00023**		**0.00055**		**0.00018**	J	0.08
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	0.00002	U	0.00002	U	**0.00135**		**0.00142**		**0.00491**		**0.00379**		0.07
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	0.00002	U	0.00002	U	**0.00140**		**0.00153**		**0.00493**		**0.00380**		0.07
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	0.00002	UB	0.00004	UB	**0.00238**		**0.00244**		**0.0105**		**0.0110**		0.14
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	0.00005	UB	0.00005	UB	**0.00246**		**0.00235**		**0.0113**		**0.0112**		0.14
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	0.00002	U	0.00002	U	**0.00192**		**0.00202**		**0.00447**		**0.00398**		0.10
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	0.00002	U	0.00002	U	**0.00182**		**0.00191**		**0.00299**		**0.00259**		0.12
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	0.00002	U	0.00002	U	0.00005	UB	0.00004	UB	**0.00093**		**0.00012**	J	0.10
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	0.00002	U	0.00002	U	**0.00192**		**0.00204**		**0.00357**		**0.00256**		0.10
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	0.00002	U	0.00002	U	**0.00222**		**0.00228**		**0.00140**		**0.00102**		0.12
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	0.00002	U	0.00002	U	**0.00172**		**0.00186**		**0.00278**		**0.00169**		0.09
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	0.00002	U	0.00002	U	**0.00285**		**0.00306**		**0.00265**		**0.00183**		0.11

Table 5-3
Surface Water Analytical Sample Results
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South Maybe Canyon Mine, Maybe Creek
Caribou County, Idaho

			Analyte	Potassium		Potassium		Selenium		Selenium		Silver		Silver		Sodium	
			Fraction	Total		Dissolved		Total		Dissolved		Total		Dissolved		Total	
			HHSL	--		--		0.05		--		0.0094		--		--	
			HHSL Source	--		--		EPA MCL		--		Tapwater RSL		--		--	
			ESL	--		--		0.0046[e]		--		0.00006		--		--	
			ESL Source	--		--		CDPHE		--		MDEQ		--		--	
			Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cross Valley Fill Springs																	
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	**0.69**		**0.66**		**0.0460**		**0.0450**		0.000009	U	0.000009	U	**3.93**	
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	0.64	UB	**0.73**		**0.0409**		**0.0387**		0.000009	U	0.000009	U	**4.06**	
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**1.03**		**1.01**		**0.105**		**0.106**		0.000009	U	0.000009	U	**3.47**	
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	**1.52**		**1.64**		**0.342**		**0.345**		0.000009	U	0.000009	U	**5.67**	
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**1.11**		**1.14**		**0.0983**		**0.0987**		0.000009	U	0.000009	U	**3.37**	
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	**1.55**		**1.58**		**0.338**		**0.324**		0.000009	U	**0.000010**	J	**5.68**	
Maybe Creek Springs																	
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	**0.67**		**0.64**		**0.0646**		**0.0629**		0.000009	U	0.000009	U	**4.14**	
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	0.73	UB	0.68	UB	**0.0262**		**0.0255**		0.000009	U	0.000009	U	**3.72**	
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**0.70**		**0.70**		**0.0286**		**0.0281**		0.000009	U	0.000009	U	**4.38**	
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**0.83**		**0.79**		**0.0382**		**0.0385**		0.000009	U	0.000009	U	**4.64**	
Maybe Creek																	
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**0.91**		**0.86**		**0.0008**	J	**0.0008**	J	0.000009	U	0.000009	U	**2.67**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**1.26**		**1.10**		**0.0338**		**0.0340**		0.000009	U	0.000009	U	**2.23**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**1.34**		**1.15**		**0.0342**		**0.0340**		0.000009	U	0.000009	U	**2.31**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	**1.16**		**1.09**		**0.165**		**0.157**		0.000009	U	0.000009	U	**4.64**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	**1.08**		**1.16**		**0.158**		**0.159**		0.000009	U	0.000009	U	**4.56**	
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**1.10**		**1.04**		**0.0686**		**0.0681**		0.000009	U	0.000009	U	**3.51**	
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**1.20**		**1.22**		**0.102**		**0.103**		0.000009	U	0.000009	U	**4.22**	
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**1.33**		**1.15**		0.0002	U	0.0002	U	0.000009	U	0.000009	U	**4.23**	
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**1.17**		**1.07**		**0.0751**		**0.0765**		0.000009	U	0.000009	U	**3.32**	
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**1.38**		**1.32**		**0.0949**		**0.0955**		0.000009	U	0.000009	U	**4.08**	
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**1.18**		**1.07**		**0.0603**		**0.0607**		0.000009	U	0.000009	U	**2.99**	
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**3.01**		**2.68**		**0.0733**		**0.0718**		0.000009	U	0.000009	U	**4.17**	

Table 5-3
Surface Water Analytical Sample Results
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				Analyte	Sodium		Thallium		Thallium		Uranium		Uranium			Vanadium	
				Fraction	Dissolved		Total		Dissolved		Total		Dissolved			Total	
				HHSL	--		0.00002		--		0.0004		--			0.0086	
				HHSL Source	--		Tapwater RSL		--		Tapwater RSL		--			Tapwater RSL	
				ESL	--		0.0072		--		0.0026		1.5005[c]			0.02	
				ESL Source	--		MDEQ		--		ORNL Tier II		CDPHE			ORNL Tier II	
				Unit	mg/L		mg/L		mg/L		mg/L		mg/L			mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Hardness Corrected ESL	Result	Qualifier
Cross Valley Fill Springs																
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	**3.90**		0.000009	U	0.000009	U	**0.000661**		**0.000645**		3.6	**0.00098**	
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	**4.17**		**0.000023**		0.000009	U	**0.000432**		**0.000423**		3.9	**0.00025**	
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**3.43**		**0.000017**	J	**0.000018**	J	**0.00190**		**0.00188**		3.6	**0.00575**	
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	**5.73**		**0.000028**		**0.000019**	J	**0.00449**		**0.00448**		7.4	**0.00627**	
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**3.39**		**0.000028**		**0.000023**		**0.00175**		**0.00177**		3.6	**0.00654**	
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	**5.67**		**0.000027**		**0.000022**		**0.00442**		**0.00436**		7.4	**0.00647**	
Maybe Creek Springs																
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	**4.11**		0.000009	U	0.000009	U	**0.00114**		**0.00116**		3.9	**0.00031**	
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	**3.71**		**0.000015**	J	0.000009	U	**0.000868**		**0.000868**		3.7	**0.00037**	J
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**4.36**		0.000009	U	0.000009	U	**0.000401**		**0.000379**		3.5	**0.00039**	
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**4.67**		0.000009	U	0.000009	U	**0.000444**		**0.000446**		4.5	**0.00034**	
Maybe Creek																
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**2.68**		**0.000021**		**0.000015**	J	**0.000298**		**0.000254**		2.6	**0.00107**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**2.22**		**0.000018**	J	0.000009	U	**0.00169**		**0.00155**		2.3	**0.0165**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**2.23**		**0.000038**		**0.000019**	J	**0.00172**		**0.00158**		2.4	**0.0166**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	**4.63**		0.000009	U	0.000009	U	**0.00229**		**0.00228**		5.4	**0.00587**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	**4.81**		**0.000020**	J	**0.000015**	J	**0.00225**		**0.00227**		5.3	**0.00609**	
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**3.42**		**0.000021**		0.000009	U	**0.00187**		**0.00179**		3.5	**0.0114**	
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**4.33**		0.000009	U	0.000009	U	**0.00168**		**0.00165**		4.6	**0.00661**	
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**4.22**		0.000009	U	0.000009	U	**0.000392**		**0.000367**		3.3	**0.00106**	
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**3.39**		0.000009	U	0.000009	U	**0.00185**		**0.00173**		3.4	**0.0108**	
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**3.97**		0.000009	U	0.000009	U	**0.00165**		**0.00158**		4.4	**0.00610**	
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**3.06**		**0.000010**	J	0.000009	U	**0.00180**		**0.00172**		3.1	**0.0119**	
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**4.17**		**0.000019**	J	**0.000012**	J	**0.00182**		**0.00173**		4.2	**0.00704**	

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			Analyte	Vanadium		Zinc		Zinc			Total Organic Carbon	
			Fraction	Dissolved		Total		Dissolved				
			HHSL	--		0.6		--			--	
			HHSL Source	--		Tapwater RSL		--			--	
			ESL	--		--		0.12[c]			--	
			ESL Source	--		--		NRWQC, IDWQS			--	
			Unit	mg/L		mg/L		mg/L			mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Hardness Corrected ESL	Result	Qualifier
Cross Valley Fill Springs												
BS-1R	SMCMCVFOU-SW-BS-1R-050521-0	05/05/2021	N	**0.00097**		**0.0095**		**0.0093**		0.23	**0.60**	
BS-1R	SMCMCVFOU-SW-BS-1R-091421-0	09/14/2021	N	**0.00030**	J	0.0007	UB	0.0010	UB	0.25	0.07	U
CD-1R	SMCMCVFOU-SW-CD-1R-050521-0	05/05/2021	N	**0.00575**		**0.0824**		**0.0838**		0.23	**1.50**	
CD-1R	SMCMCVFOU-SW-CD-1R-091421-0	09/14/2021	N	**0.00642**		**0.155**		**0.152**		0.40	**1.00**	
CD-3	SMCMCVFOU-SW-CD-3-050521-0	05/05/2021	N	**0.00652**		**0.0729**	J	**0.0718**		0.23	**1.50**	
CD-3	SMCMCVFOU-SW-CD-3-091421-0	09/14/2021	N	**0.00629**		**0.151**		**0.153**		0.40	**1.10**	
Maybe Creek Springs												
SP-3	SMCMMCOU-SW-SP-3-050421-0	05/04/2021	N	**0.00031**		0.0005	U	**0.0015**	J	0.25	**0.45**	J
SP-3	SMCMMCOU-SW-SP-3-091421-0	09/14/2021	N	**0.00031**	J	0.0007	UB	0.0010	UB	0.24	**0.07**	J
SP-9	SMCMMCOU-SW-SP-9-050421-0	05/04/2021	N	**0.00030**		**0.0007**	J	**0.0021**		0.23	**1.10**	
SP-9	SMCMMCOU-SW-SP-9-091321-0	09/13/2021	N	**0.00020**	J	0.0017	UB	0.0010	UB	0.27	**1.00**	
Maybe Creek												
SW-1	SMCMMCOU-SW-SW-1-050521-0	05/05/2021	N	**0.00069**		**0.0032**		**0.0013**	J	0.18	**1.60**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-0	05/04/2021	N	**0.0157**		**0.0219**		**0.0153**		0.16	**1.70**	
SW-2R	SMCMMCOU-SW-SW-2R-050421-2	05/04/2021	FD	**0.0152**		**0.0222**		**0.0149**		0.17	**1.70**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-0	09/14/2021	N	**0.00590**		**0.0466**		**0.0452**		0.31	**0.60**	
SW-2R	SMCMMCOU-SW-SW-2R-091421-2	09/14/2021	FD	**0.00607**		**0.0473**		**0.0449**		0.31	**0.80**	
SW-13	SMCMMCOU-SW-SW-13-050421-0	05/04/2021	N	**0.0111**		**0.0167**		**0.0136**		0.22	**1.40**	
SW-13	SMCMMCOU-SW-SW-13-091321-0	09/13/2021	N	**0.00628**		**0.0073**		0.0051	UB	0.28	**0.80**	
North Fork	SMCMMCOU-SW-NORTHFORK-091321-0	09/13/2021	N	**0.00052**		0.0058	UB	0.0009	UB	0.22	**0.80**	
SW-4	SMCMMCOU-SW-SW-4-050421-0	05/04/2021	N	**0.00964**		**0.0106**		**0.0051**		0.22	**1.40**	
SW-4	SMCMMCOU-SW-SW-4-091321-0	09/13/2021	N	**0.00572**		0.0045	UB	0.0012	UB	0.27	**1.10**	
SW-5	SMCMMCOU-SW-SW-5-050421-0	05/04/2021	N	**0.0107**		**0.0084**		**0.0030**		0.21	**1.50**	
SW-5	SMCMMCOU-SW-SW-5-091321-0	09/13/2021	N	**0.00554**		**0.0087**		0.0026	UB	0.26	**3.00**	

Notes:
1. **Bold** indicates detected values.
2. Values shaded with gray are detected results that exceed the lower of the HHSL and ESL.

[a] Values are the individual tapwater RSL values for nitrate and nitrite. The nitrate+nitrite RSL is based on the lesser of nitrate RSL and nitrite RSL.

[b] Screening level is pH-dependent.

[c] Value provided is the screening level for a hardness of 100 mg/L. The freshwater criterion for this metal is determined as a function of hardness (mg/L) in the water column calculated as S = exp(m*ln(H)+ b)*F where S is the screening level (micrograms per liter), H is the hardness (mg/L), F is the freshwater conversion factor, and m and b are metal-specific constants provided in Appendix B to the NRWQC (USEPA 2018; for lead, nickel, and zinc), Table 3 of CDPHE (CDPHE 2021; for manganese and uranium), Section 210 of IDAPA 58.01.02 (Idaho Department of Administration 2021; for cadmium and copper), and the Rule 57 Water Quality Values (MDEQ 2020; for barium). For samples with hardness greater than 400 mg/L, the correction was calculated using a hardness of 400 mg/L. For samples with hardness less than 25 mg/L, the correction factor was calculated using a hardness of 25 mg/L.

[d] For dissolved chromium, the criterion for hexavalent chromium is presented.

[e] For total selenium, the tapwater RSL is used for screening.

Acronyms and Abbreviations:
-- = not applicable
% = percent
CDPHE = Colorado Department of Public Health and Environment
ESL = ecological screening level
FD = field duplicate
HHSL = human health screening level
ID = identification
IDAPA = Idaho Department of Administrative Procedures Act
IDEQ = Idaho Department of Environmental Quality
IDWQS = Idaho water quality standard
MCL = maximum contaminant level
MDEQ = Michigan Department of Environmental Quality
meq/L = milliequivalent per liter
mg/L = milligram per liter
N = primary sample
NRWQC = national recommended water quality criteria
ORNL = Oak Ridge National Laboratory
RSL = regional screening level
USEPA = United States Environmental Protection Agency

Qualifiers:
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected. The associated value is the analyte method detection limit adjusted for sample variables such as volume, mass, moisture, and dilution.
UB = The analyte is considered nondetect at the listed value due to associated blank contamination.
UJ = The analyte was analyzed for but was not detected. The reported method detection limit (MDL) is approximate and may be inaccurate or imprecise.

Screening Level Hierarchy:
The lower of either the HHSL or ESL was selected for each analyte.
ESLs were selected according to the following hierarchy:
- Lower of the NRWQC for chronic exposure (USEPA 2018) or the Rules of the IDEQ IDAPA 58.01.02 water quality standards (Idaho Department of Administration 2021) as applied.
- If no NRWQC or IDAPA water quality standards were established, additional sources of state water quality criteria were used, including MDEQ Rule 57 value database for freshwater chronic values (MDEQ 2020), CDPHE water quality standards (CDPHE 2021), and ORNL Tier II secondary chronic values (ORNL 1996).

HHSLs were selected based on the lower of the following:
- Primary MCLs (USEPA 2009)
- Secondary MCLs (USEPA 2009)
- USEPA tapwater RSL for an estimated lifetime cancer risk of 1 x 10^{6} or a noncancer hazard quotient of 0.1 (USEPA 2021).

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Screening Level Sources:
Secondary MCL = USEPA secondary MCL (USEPA 2009).
Primary MCL = USEPA primary MCL (USEPA 2009).
Tapwater RSL = USEPA tapwater RSL for estimated lifetime cancer risk of 1 x 10^{6} or a noncancer hazard quotient of 0.1 (USEPA 2021).
NRWQC = Criterion continuous concentration (i.e., chronic exposures). For dissolved total chromium, the criterion for hexavalent chromium is presented (USEPA 2018).
MDEQ = MDEQ Rule 57 value database Water Quality Values (MDEQ 2020).
IDWQS = IDAPA 58.01.02 water quality standards; chronic criteria for aquatic life (Idaho Department of Administration 2021).
ORNL Tier II = ORNL Tier II values, Secondary Chronic Value (ORNL 1996).
CDPHE = CDPHE water quality standard (CDPHE 2021).

References:
CDPHE. 2021. Water Quality Control Commission Regulation No. 31. The Basic Standards and Methodologies for Surface Water (5 CCR 1002-31). Available online at: http://www.colorado.gov.
Idaho Department of Administration. 2021. Water Quality Standards. IDAPA 58.01.02. Available online at: https://adminrules.idaho.gov/rules/current/58/580102.pdf.
MDEQ. 2020. Rule 57 Water Quality Values. Available online at: http://www.michigan.gov/documents/deq/wrd-swas-rule57_372470_7.pdf
ORNL. 1996. Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision. ES/ER/TM-96/R2. Available online at: http://rais.ornl.gov/documents/tm96r2.pc
USEPA. 2009. List of Contaminants and their MCLs. USEPA. Web page. Updated May 2009. Available online at: http://water.epa.gov/drink/contaminants/.
USEPA. 2018. National Recommended Water Quality Criteria. USEPA Office of Water, Office of Science and Technology. Available online at: http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm.
USEPA. 2021. Regional Screening Levels for Residential Tapwater. May. Available online at: http://www2.epa.gov/risk/risk-based-screening-table-generic-table

Table 5-4
Surface Water Selenium Loads
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Caribou County, Idaho

Location ID	Measurement Date	Discharge	Dissolved Selenium	Dissolved Selenium Loading	Total Selenium	Total Selenium Loading
		cfs	mg/L	lb/day	mg/L	lb/day
Cross Valley Fill Springs and Seep						
BS-1R	05/05/2021	0.102	0.0450	0.025	0.0460	0.025
BS-1R	09/14/2021	0.0573	0.0387	0.012	0.0409	0.013
North Spring R	05/05/2021	DRY	--	NC	--	NC
North Spring R	09/14/2021	DRY	--	NC	--	NC
CD-1R	05/05/2021	0.205	0.106	0.12	0.105	0.12
CD-1R	09/14/2021	0.0104	0.345	0.019	0.342	0.019
CD-3	05/05/2021	0.0790	0.0987	0.042	0.0983	0.042
CD-3	09/14/2021	0.00147	0.324	0.003	0.338	0.003
Maybe Creek Springs						
SP-3	05/04/2021	0.103	0.0629	0.035	0.0646	0.036
SP-3	09/14/2021	0.0197	0.0255	0.003	0.0262	0.003
SP-9	05/04/2021	0.00480	0.0281	0.00073	0.0286	0.00074
SP-9	09/13/2021	0.000668	0.0385	0.00014	0.0382	0.00014
Maybe Creek						
SW-1	05/05/2021	0.0472	0.0008 J	0.0002	0.0008 J	0.0002
SW-1	09/14/2021	DRY	--	NC	--	NC
SW-2R	05/04/2021	1.84	0.0340	0.34	0.0338	0.34
SW-2R	09/14/2021	0.214	0.157	0.1812	0.165	0.1905
SW-13	05/04/2021	2.00	0.0681	0.73	0.0686	0.74
SW-13	09/13/2021	0.367	0.1030	0.20	0.102	0.20
North Fork	05/04/2021	DRY	--	NC	--	NC
North Fork	09/13/2021	0.000886	0.0002 U	NC	0.0002 U	NC
SW-4	05/04/2021	1.13	0.0765	0.47	0.0751	0.46
SW-4	09/13/2021	0.0599	0.0955	0.031	0.0949	0.031
SW-5	05/04/2021	0.884	0.0607	0.29	0.0603	0.29
SW-5	09/13/2021	0.0235	0.0718	0.009	0.0733	0.009

Notes:
1. If a field duplicate sample was collected, the highest selenium concentration of the parent sample and field duplicate sample was used in loading calculation.
2. If a selenium concentration was nondetect, then a selenium loading rate was not calculated.

Acronyms and Abbreviations:
-- = not applicable
cfs = cubic foot per second
DRY = location was dry
ID = identification
lb/day = pound per day
mg/L = milligram per liter
NC = not calculated

Qualifiers:
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected. The associated value is the analyte method detection limit adjusted for sample variables such as volume, mass, moisture, and dilution.

Table 5-9
Groundwater Analytical Sample Results
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				Analyte	Aluminum				Antimony				Arsenic				Barium			
				Method	SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A	
				Fraction	Total		Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved	
				HHSL	0.05		--		0.00078		--		0.000052		--		0.38		--	
				HHSL Source	Secondary MCL		--		Tapwater RSL		--		Tapwater RSL		--		Tapwater RSL		--	
				Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N	**0.0271**		0.0025	UB	**0.000041**	J	**0.000028**	J	**0.00020**	J	**0.00020**	J	**0.0117**		**0.0117**	
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N	**4.86**		0.0071	UB	0.000161	UB	0.000023	UB	**0.00252**		**0.00028**	J	**0.0859**		**0.0143**	
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N	0.0027	UB	0.0019	UB	**0.000150**		**0.000133**		**0.00033**	J	**0.00029**	J	**0.0154**		**0.0156**	
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD	0.0040	UB	0.0018	UB	**0.000132**		**0.000144**		**0.00031**	J	**0.00035**	J	**0.0156**		**0.0153**	
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N	0.0037	UB	0.0031	UB	0.000120	UB	0.000123	UB	**0.00030**	J	**0.00032**	J	**0.0281**		**0.0280**	
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N	**0.0209**		0.0021	UB	**0.000042**	J	**0.000033**	J	**0.00016**	J	**0.00016**	J	**0.0192**		**0.0189**	
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N	0.0114	UB	0.0018	UB	0.000037	UB	0.000035	UB	**0.00019**	J	**0.00017**	J	**0.0195**		**0.0195**	
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD	0.0129	UB	0.0014	UB	0.000044	UB	0.000074	UB	**0.00016**	J	**0.00021**	J	**0.0197**		**0.0193**	
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N	0.0059	UB	0.0016	UB	**0.000024**	J	**0.000035**	J	**0.00013**	J	**0.00014**	J	**0.0263**		**0.0263**	
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N	0.0024	UB	0.0017	UB	0.000035	UB	0.000022	UB	**0.00018**	J	**0.00016**	J	**0.0259**		**0.0252**	
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N	0.0020	UB	0.0030	UB	**0.000026**	J	**0.000023**	J	**0.00012**	J	**0.00011**	J	**0.0136**		**0.0137**	
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N	0.0060	UB	0.0017	UB	0.000022	UB	0.000020	U	**0.00015**	J	**0.00010**	J	**0.0151**		**0.0151**	
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N	0.0015	UB	0.0015	UB	**0.000032**	J	**0.000023**	J	**0.00013**	J	**0.00013**	J	**0.0153**		**0.0156**	
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N	0.0014	UB	0.0042	UB	0.000020	U	0.000020	U	**0.00013**	J	**0.00012**	J	**0.0158**		**0.0160**	
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N	0.0027	UB	0.0016	UB	0.000024	UB	0.000020	U	**0.00011**	J	**0.00013**	J	**0.0156**		**0.0154**	
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N	0.0066	UB	0.0018	UB	0.000020	U	0.000023	UB	**0.00015**	J	**0.00011**	J	**0.0173**		**0.0173**	
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N	**0.0162**		0.0019	UB	**0.000034**	J	**0.000036**	J	**0.00031**	J	**0.00032**	J	**0.0216**		**0.0221**	
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N	0.0028	UB	0.0018	UB	0.000027	UB	0.000031	UB	**0.00027**	J	**0.00026**	J	**0.0209**		**0.0206**	
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N	**0.0194**		0.0047	UB	0.000040	UB	0.000036	UB	**0.00026**	J	**0.00026**	J	**0.0239**		**0.0243**	

Table 5-9
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				Analyte	Beryllium				Boron				Cadmium				Calcium			
				Method	SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A	
				Fraction	Total		Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved	
				HHSL	0.0025		--		0.4		--		0.00018		--		--		--	
				HHSL Source	Tapwater RSL		--		Tapwater RSL		--		Tapwater RSL		--		--		--	
				Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N	**0.000006**	J	0.000005	U	**0.0137**		**0.0145**		**0.000012**	J	0.000029	UB	**54.6**		**52.4**	
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N	**0.000314**		0.000005	U	**0.0210**		**0.0193**		0.000440		**0.000036**		**105**		**66.7**	
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N	0.000005	U	0.000005	U	**0.0180**		**0.0185**		**0.000024**		0.000023	UB	**73.2**		**72.2**	
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD	0.000005	U	0.000005	U	**0.0184**		**0.0195**		**0.000022**		0.000027	UB	**73.5**		**73.8**	
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N	0.000005	U	0.000005	U	**0.0235**		**0.0238**		**0.000016**	J	**0.000016**	J	**115**		**114**	
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N	0.000005	U	0.000005	U	**0.0159**		**0.0156**		**0.000038**		0.000030	UB	**77.9**		**77.6**	
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N	0.000005	U	0.000005	U	**0.0166**		**0.0171**		**0.000029**		0.000037	UB	**77.1**		**78.0**	
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD	0.000005	U	0.000005	U	**0.0181**		**0.0172**		**0.000034**		0.000031	UB	**75.9**		**79.5**	
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N	0.000005	U	0.000005	U	**0.0180**		**0.0175**		**0.000088**		**0.000010**	J	**89.3**		**90.5**	
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N	0.000005	U	0.000005	U	**0.0180**		**0.0185**		**0.000016**	J	0.000010	UB	**92.0**		**91.5**	
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N	0.000005	U	0.000005	U	**0.0153**		**0.0156**		**0.000027**		**0.000012**	J	**68.2**		**67.5**	
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N	0.000005	U	0.000005	U	**0.0172**		0.0145	UB	**0.000016**	J	0.000008	U	**72.3**		**73.2**	
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N	0.000005	U	0.000005	U	**0.0203**		**0.0203**		**0.000008**	J	0.000008	U	**69.8**		**70.8**	
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N	0.000005	U	0.000005	U	**0.0195**		**0.0196**		0.000008	U	0.000008	U	**72.5**		**72.3**	
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N	0.000005	U	0.000005	U	**0.0150**		**0.0146**		0.000008	U	0.000008	U	**71.7**		**71.8**	
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N	0.000005	U	0.000005	U	**0.0181**		**0.0180**		**0.000014**	J	0.000008	U	**79.8**		**80.6**	
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N	0.000005	U	0.000005	U	**0.0143**		**0.0145**		**0.000027**		**0.000031**		**77.7**		**75.8**	
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N	0.000005	U	0.000005	U	**0.0149**		**0.0143**		**0.000013**	J	**0.000013**	J	**70.7**		**71.6**	
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N	0.000005	U	0.000005	U	**0.0156**		**0.0175**		**0.000025**		0.000022	UB	**90.6**		**89.8**	

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				Analyte	Chromium				Cobalt				Copper				Iron			
				Method	SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A	
				Fraction	Total		Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved	
				HHSL	0.1		--		0.0006		--		0.08		--		0.3		--	
				HHSL Source	Primary MCL		--		Tapwater RSL		--		Tapwater RSL		--		Secondary MCL		--	
				Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N	0.00067	UB	0.00059	UB	**0.000017**	J	0.000009	U	**0.00011**		**0.00011**		**0.0297**		0.0006	UB
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N	**0.00835**		**0.00142**		**0.00344**		0.000009	U	**0.00562**		**0.00020**		**8.17**		0.0028	UB
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N	0.00082	UB	0.00079	UB	**0.000015**	J	**0.000012**	J	**0.00021**		**0.00024**		0.0012	UB	0.0004	UB
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD	0.00081	UB	0.00078	UB	**0.000016**	J	**0.000013**	J	**0.00020**		**0.00020**		0.0011	UB	0.0008	UB
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N	**0.00100**		**0.00112**		**0.000019**	J	**0.000021**		**0.00028**		**0.00026**		0.0028	UB	0.0009	UB
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N	0.00076	UB	0.00066	UB	**0.000024**		0.000009	U	**0.00012**		**0.00011**		**0.0254**		0.0007	UB
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N	0.00070	UB	0.00069	UB	**0.000018**	J	0.000010	UB	**0.00010**	J	0.00008	UB	**0.0143**		0.0012	UB
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD	0.00077	UB	0.00068	UB	**0.000020**		0.000016	UB	**0.00034**	J	0.00012	UB	**0.0161**		0.0003	U
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N	**0.00059**		**0.00051**		**0.000024**		0.000009	U	**0.00008**	J	**0.00006**	J	**0.0109**		0.0003	U
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N	0.00067	UB	0.00067	UB	**0.000016**	J	0.000011	UB	**0.00007**	J	0.00011	UB	**0.0024**		0.0003	UB
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N	**0.00038**		**0.00039**		0.000009	U	0.000009	U	**0.00005**	J	**0.00008**	J	**0.0009**	J	**0.0007**	J
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N	0.00125	UB	0.00049	UB	**0.000017**	J	0.000014	UB	**0.00023**		0.00011	UB	**0.0019**	J	0.0006	UB
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N	**0.00050**		**0.00044**		0.000009	U	0.000009	U	**0.00007**	J	**0.00011**		**0.0004**	J	0.0003	U
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N	0.00056	UB	0.00058	UB	**0.000011**	J	0.000013	UB	**0.00015**		0.00011	UB	**0.0005**	J	0.0005	UB
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N	**0.00041**		**0.00045**		**0.000012**	J	**0.000011**	J	**0.00013**		**0.00010**		**0.0017**	J	**0.0022**	
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N	0.00070	UB	0.00062	UB	**0.000014**	J	0.000010	UB	**0.00022**		0.00011	UB	**0.0078**		0.0005	UB
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N	**0.00075**		**0.00078**		**0.000010**	J	**0.000013**	J	**0.00007**	J	**0.00011**		**0.0176**		**0.0006**	J
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N	**0.00072**		**0.00077**		0.000009	U	0.000009	U	**0.00008**	J	**0.00013**		**0.0022**		0.0003	U
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N	0.00080	UB	0.00095	UB	**0.000021**		0.000017	UB	**0.00015**		0.00028	UB	**0.0237**		0.0020	UB

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				Analyte	Lead				Magnesium				Manganese				Mercury			
				Method	SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW7470A		SW7470A	
				Fraction	Total		Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved	
				HHSL	0.015		--		--		--		0.043		--		0.000063		--	
				HHSL Source	Tapwater RSL		--		--		--		Tapwater RSL		--		Tapwater RSL		--	
				Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N	0.000070	UB	0.000091	UB	**14.9**		**14.8**		**0.00645**		**0.00013**	J	0.00002	U	0.00002	U
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N	**0.0237**		**0.00107**		**21.6**		**17.9**		**2.60**		**0.00144**		0.00002	U	0.00002	U
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N	0.000035	UB	0.000028	UB	**17.8**		**18.4**		**0.00095**	J	**0.00021**	J	0.00002	U	0.00002	U
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD	0.000012	UB	0.000043	UB	**18.1**		**18.3**		0.00004	UJ	**0.00008**	J	0.00002	U	0.00002	U
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N	**0.000034**		**0.000113**		**27.8**		**28.0**		**0.00062**		**0.00027**		0.00002	U	0.00002	U
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N	0.000042	UB	0.000015	UB	**20.2**		**20.7**		**0.00408**		**0.00006**	J	0.00002	U	0.00002	U
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N	0.000032	UBJ	0.000007	UB	**20.0**		**20.3**		**0.00267**		0.00026	UB	0.00002	U	0.00003	UB
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD	**0.000262**	J	0.000013	UB	**20.7**		**20.6**		**0.00280**		0.00165	UB	0.00004	UB	0.00002	U
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N	**0.000014**	J	**0.000007**	J	**21.6**		**22.1**		**0.0729**	J	**0.00035**	J	0.00002	U	0.00002	U
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N	0.000012	UB	0.000019	UB	**22.7**		**23.6**		**0.00624**		0.00050	UB	0.00006	UB	0.00004	UB
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N	**0.000012**	J	**0.000046**		**11.8**		**11.8**		**0.00009**	J	**0.00010**	J	0.00002	U	0.00002	U
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N	**0.000224**		0.000016	UB	**13.3**		**13.9**		**0.00143**		0.00018	UB	0.00006	UB	0.00003	UB
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N	**0.000009**	J	**0.000019**	J	**19.6**		**19.8**		0.00004	U	0.00004	U	0.00002	U	0.00002	U
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N	0.000028	UB	0.000029	UB	**20.6**		**21.3**		**0.00034**		0.00006	UB	0.00005	UB	0.00002	UB
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N	**0.000011**	J	**0.000012**	J	**17.5**		**17.8**		**0.00008**	J	0.00004	U	0.00002	U	0.00002	U
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N	0.000069	UB	0.000029	UB	**20.3**		**21.2**		**0.00255**		0.00021	UB	0.00004	UB	0.00003	UB
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N	**0.000023**		**0.000017**	J	**17.4**		**17.2**		**0.00052**		**0.00005**	J	0.00002	U	0.00002	U
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N	**0.000009**	J	**0.000009**	J	**15.6**		**15.7**		**0.00024**	J	0.00004	U	0.00002	U	0.00002	U
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N	0.000053	UB	0.000103	UB	**15.1**		**16.0**		**0.00638**		0.00250	UB	0.00002	U	0.00004	UB

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				Analyte	Molybdenum				Nickel				Potassium				Selenium			
				Method	SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A	
				Fraction	Total		Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved	
				HHSL	0.01		--		0.039		--		--		--		0.05		--	
				HHSL Source	Tapwater RSL		--		Tapwater RSL		--		--		--		EPA MCL		--	
				Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N		**0.00016**		**0.00018**		**0.00016**	J	**0.00007**	J	**0.79**		**0.76**		**0.0006**	J	**0.0005**	J
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N		0.00017	UB	0.00021	UB	**0.00945**		**0.00012**	J	**2.64**		**0.89**		**0.0004**	J	**0.0004**	J
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N		**0.00845**		**0.00849**		**0.00041**		**0.00044**		**1.05**		**1.10**		0.112		**0.113**	
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD		**0.00849**		**0.00851**		**0.00042**		**0.00043**		**1.09**		**1.07**		0.113		**0.114**	
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N		**0.00486**		**0.00504**		**0.00029**		**0.00027**		**1.41**		**1.43**		0.211		**0.211**	
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N		**0.00126**		**0.00126**		**0.00011**	J	**0.00009**	J	**0.90**		**0.96**		0.137		**0.137**	
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N		**0.00186**		**0.00149**		**0.00013**	J	0.00007	UB	**1.06**		**1.03**		0.0875		**0.0908**	
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD		**0.00203**		**0.00155**		**0.00020**	J	0.00008	UB	**1.01**		**1.11**		0.0873		**0.0918**	
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N		**0.00011**		**0.00014**		**0.00014**	J	0.00004	U	**0.84**		**0.85**		0.125		**0.125**	
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N		**0.00013**		**0.00013**		**0.00012**	J	0.00011	UB	**0.93**		**0.93**		0.139		**0.140**	
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N		**0.00013**		**0.00013**		**0.00005**	J	**0.00005**	J	**0.61**		**0.51**		0.0346		**0.0344**	
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N		**0.00014**		**0.00011**		**0.00018**	J	0.00011	UB	**0.59**		0.58	UB	0.0507		**0.0506**	
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N		**0.00020**		**0.00019**		**0.00004**	J	**0.00007**	J	**1.07**		**1.08**		**0.0014**		**0.0015**	
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N		**0.00018**		**0.00020**		**0.00011**	J	0.00008	UB	**1.16**		**1.20**		**0.0064**		**0.0070**	
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N		**0.00012**		**0.00012**		**0.00011**	J	**0.00008**	J	**0.48**		**0.47**		0.238		**0.239**	
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N		**0.00029**		**0.00028**		**0.00025**		0.00012	UB	**0.84**		**0.83**		0.0833		**0.0833**	
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N		**0.00014**		**0.00014**		**0.00009**	J	**0.00007**	J	**0.87**		**0.79**		0.162		**0.158**	
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N		**0.00014**		**0.00014**		0.00004	U	0.00004	U	**0.90**		**0.90**		0.193		**0.190**	
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N		**0.00009**	J	**0.00006**	J	**0.00013**	J	0.00017	UB	**0.61**		0.66	UB	0.250		**0.258**	

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				Analyte	Silver				Sodium				Thallium				Uranium			
				Method	SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A		SW6020A	
				Fraction	Total		Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved	
				HHSL	0.0094		--		--		--		0.00002		--		0.0004		--	
				HHSL Source	Tapwater RSL		--		--		--		Tapwater RSL		--		Tapwater RSL		--	
				Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N	0.000009	U	0.000009	U	**3.07**		**3.04**		0.000009	U	0.000009	U	**0.000387**		**0.000384**	
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N	**0.000062**		0.000009	U	**4.11**		**3.91**		**0.000051**		0.000009	U	**0.000741**		**0.000468**	
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N	0.000009	U	0.000009	U	**3.79**		**3.85**		**0.000017**	J	**0.000010**	J	**0.00324**		**0.00324**	
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD	0.000009	U	0.000009	U	**3.86**		**3.84**		**0.000018**	J	**0.000019**	J	**0.00324**		**0.00323**	
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N	0.000009	U	0.000009	U	**5.02**		**5.09**		0.000009	U	0.000009	U	**0.00411**		**0.00410**	
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N	0.000009	U	0.000009	U	**4.06**		**4.15**		0.000009	U	0.000009	U	**0.00209**		**0.00206**	
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N	0.000009	U	0.000009	U	**4.35**		**4.40**		0.000009	U	0.000009	U	**0.00202**		**0.00188**	
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD	0.000009	U	0.000009	U	**4.55**		**4.50**		**0.000014**	J	**0.000011**	J	**0.00207**		**0.00202**	
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N	0.000009	U	0.000009	U	**4.53**		**4.65**		**0.000017**	J	0.000009	U	**0.000759**		**0.000743**	
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N	0.000009	U	0.000009	U	**4.77**		**4.98**		0.000009	U	0.000009	U	**0.000786**		**0.000796**	
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N	0.000009	U	0.000009	U	**4.23**		**4.24**		**0.000020**	J	**0.000023**		**0.000528**		**0.000528**	
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N	**0.000031**		0.000009	U	**4.48**		**4.65**		0.000009	U	0.000009	U	**0.000642**		**0.000646**	
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N	0.000009	U	0.000009	U	**4.06**		**4.14**		**0.000010**	J	**0.000014**	J	**0.000397**		**0.000402**	
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N	0.000009	U	0.000009	U	**4.36**		**4.57**		0.000009	U	0.000009	U	**0.000410**		**0.000416**	
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N	0.000009	U	0.000009	U	**4.25**		**4.29**		0.000009	U	0.000009	U	**0.000461**		**0.000448**	
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N	0.000009	U	0.000009	U	**4.59**		**4.83**		0.000009	U	0.000009	U	**0.000576**		**0.000581**	
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N	0.000009	U	0.000009	U	**3.97**		**3.86**		0.000009	U	0.000009	U	**0.000534**		**0.000536**	
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N	0.000009	U	0.000009	U	**3.40**		**3.41**		0.000009	U	0.000009	U	**0.000706**		**0.000694**	
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N	0.000009	U	0.000009	U	**4.17**		**4.47**		**0.000014**	J	0.000009	U	**0.000979**		**0.000991**	

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			Analyte	Vanadium				Zinc				A/C Balance (+/- 5)		Anions		Cations		Chloride		Nitrate/Nitrite	
			Method	SW6020A		SW6020A		SW6020A		SW6020A		SM1030E		SM1030E		SM1030E		USEPA 300.0		USEPA 353.2	
			Fraction	Total		Dissolved		Total		Dissolved		--		--		--		--		--	
			HHSL	0.0086		--		0.6		--		--		--		--		250		0.2	
			HHSL Source	Tapwater RSL		--		Tapwater RSL		--		--		--		--		Secondary MCL		Tapwater RSL	
			Unit	mg/L		mg/L		mg/L		mg/L		%		meq/L		meq/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N	**0.00045**		**0.00042**		**0.0009**	J	**0.0021**		**0.8**		**3.92**		**3.98**		**1.08**		**0.542**	
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N	**0.00889**		**0.00046**		**0.0807**		0.0011	UB	**6.3**		**5.67**		**5.00**		**1.20**		**0.165**	
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N	**0.00257**		**0.00266**		**0.0013**	J	**0.0022**		**1.5**		**5.15**		**5.31**		**2.02**		**0.785**	
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD	**0.00263**		**0.00255**		**0.0012**	J	**0.0012**	J	**1.9**		**5.19**		**5.38**		**1.86**		**0.794**	
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N	**0.00208**		**0.00215**		0.0013	UB	0.0011	UB	**2.9**		**7.79**		**8.25**		**2.99**		**0.667**	
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N	**0.00043**		**0.00041**		**0.0009**	J	**0.0006**	J	**1.5**		**5.6**		**5.78**		**1.98**		**1.53**	
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N	**0.00053**		**0.00055**		0.0012	UB	0.0008	UB	**3.4**		**5.40**		**5.78**		**1.76**		**0.519**	
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD	**0.00050**		**0.00053**		0.0016	UB	0.0009	UB	**5.0**		**5.33**		**5.89**		**1.73**		**0.518**	
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N	**0.00022**		**0.00019**	J	0.0005	U	**0.0006**	J	**1.9**		**6.32**		**6.56**		**2.07**		**0.402**	
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N	**0.00024**	J	**0.00024**	J	0.0006	UB	0.0007	UB	**3.6**		**6.28**		**6.75**		**2.06**		**0.550**	
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N	**0.00023**		**0.00024**		**0.0006**	J	**0.0042**		**2.8**		**4.29**		**4.54**		**1.46**		**0.445**	
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N	**0.00030**	J	**0.00027**	J	0.0010	UB	0.0007	UB	**2.9**		**4.73**		**5.01**		**1.66**		**0.315**	
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N	**0.00016**	J	**0.00017**	J	**0.0007**	J	**0.0010**	J	**2.6**		**5.10**		**5.37**		**1.26**		**4.18**	
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N	**0.00019**	J	**0.00017**	J	0.0008	UB	0.0008	UB	**2.9**		**5.27**		**5.59**		**1.28**		**0.082**	
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N	**0.00033**		**0.00036**		**0.0009**	J	**0.0007**	J	**2.5**		**4.99**		**5.25**		**1.49**		**0.014**	J
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N	**0.00033**	J	**0.00029**	J	0.0016	UB	0.0010	UB	**3.0**		**5.65**		**6.00**		**1.63**		**0.285**	
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N	**0.00100**		**0.00105**		**0.0011**	J	**0.0007**	J	**0.6**		**5.32**		**5.39**		**1.70**		**1.01**	
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N	**0.00087**		**0.00092**		**0.0007**	J	**0.0006**	J	**2.4**		**4.8**		**5.04**		**2.46**		**0.473**	
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N	**0.00122**		**0.00114**		0.0009	UB	0.0027	UB	**1.9**		**5.79**		**6.01**		**2.44**		**0.238**	

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				Analyte	Sulfate		Alkalinity		Alkalinity, Bicarbonate		Alkalinity, Carbonate		Alkalinity, Hydroxide		Total Hardness				Total Dissolved Solids		Total Suspended Solids	
				Method	USEPA 300.0		SM2320B		SM2320B		SM2320B		SM2320B		SM2340B		SM2340B		SM2540C		SM2540D	
				Fraction	--		--		--		--		--		Total		Dissolved		--		--	
				HHSL	250		--		--		--		--		--		--		--		--	
				HHSL Source	Secondary MCL		--		--		--		--		--		--		--		--	
				Unit	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N	**9.34**		**188**		**188**		3	U	3	U	**198**		**192**		**211.00**		5.0	U
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N	**10.1**		**276**		**276**		0.6	U	0.6	U	**351**		**240**		**308**		**312**	
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N	**60.6**		**195**		**195**		3	U	3	U	**256**		**256**		**299.00**		5.0	U
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD	**62.4**		**195**		**195**		3	U	3	U	**258**		**260**		**299.00**		5.0	U
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N	**119**		**266**		**266**		0.6	U	0.6	U	**402**		**400**		**455**		5.0	U
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N	**71.9**		**206**		**206**		3	U	3	U	**278**		**279**		**336.00**		5.0	U
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N	**53.7**		**215**		**215**		0.6	U	0.6	U	**275**		**278**		**295**		5.0	U
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD	**52.3**		**213**		**213**		0.6	U	0.6	U	**275**		**283**		**296**		5.0	U
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N	**98.5**		**214**		**214**		3	U	3	U	**312**		**317**		**358**		5.0	U
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N	**90.9**		**220**		**220**		0.6	U	0.6	U	**323**		**326**		**367**		5.0	U
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N	**26.5**		**188**		**188**		3	U	3	U	**219**		**217**		**245**		5.0	U
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N	**36.0**		**200**		**200**		0.6	U	0.6	U	**235**		**240**		**254**		5.0	U
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N	**11.0**		**246**		**246**		3	U	3	U	**255**		**258**		**263**		5.0	U
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N	**16.3**		**249**		**249**		0.6	U	0.6	U	**266**		**268**		**258**		5.0	U
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N	**44.8**		**204**		**204**		3	U	3	U	**251**		**253**		**278**		5.0	U
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N	**52.9**		**229**		**229**		0.6	U	0.6	U	**283**		**289**		**302**		5.0	U
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N	**76.8**		**187**		**187**		3	U	3	U	**266**		**260**		**342**		5.0	U
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N	**48.7**		**189**		**186**		**3**	J	3	U	**241**		**243**		**268**		5.0	U
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N	**77.3**		**209**		**209**		0.6	U	0.6	U	**288**		**290**		**330**		5.0	U

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			Analyte	Solids, Total Dissolved Calculated		Total Dissolved Solids Balance		Total Organic Carbon	
			Method	SM1030E		SM1030E		SM5310C	
			Fraction	--		--		--	
			HHSL	--		--		--	
			HHSL Source	--		--		--	
			Unit	mg/L		mg/L		mg/L	
Location ID	Sample ID	Sample Date	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier
PZ-1	SMCMMCOU-GW-PZ-1-051321-0	05/13/2021	N	**194.76**		**1.08**		**0.70**	
PZ-1	SMCMMCOU-GW-PZ-1-091621-0	09/16/2021	N	**266.47**		**1.16**		**0.14**	J
MC-1	SMCMMCOU-GW-MC-1-051321-0	05/13/2021	N	**275.96**		**1.08**		**1.10**	
MC-1	SMCMMCOU-GW-MC-1-051321-2	05/13/2021	FD	**279.06**		**1.07**		**1.10**	
MC-1	SMCMMCOU-GW-MC-1-091621-0	09/16/2021	N	**430.78**		**1.06**		**0.60**	
MC-13	SMCMMCOU-GW-MC-13-051321-0	05/13/2021	N	**302.42**		**1.11**		**0.50**	
MC-13	SMCMMCOU-GW-MC-13-091521-0	09/15/2021	N	**288.71**		**1.02**		**0.08**	J
MC-13	SMCMMCOU-GW-MC-13-091521-2	09/15/2021	FD	**288.06**		**1.03**		**0.29**	J
MC-11	SMCMMCOU-GW-MC-11-051421-0	05/14/2021	N	**347.47**		**1.03**		**0.50**	
MC-11	SMCMMCOU-GW-MC-11-091521-0	09/15/2021	N	**346.52**		**1.06**		0.07	U
MC-10	SMCMMCOU-GW-MC-10-051421-0	05/14/2021	N	**225.26**		**1.09**		**0.43**	J
MC-10	SMCMMCOU-GW-MC-10-091521-0	09/15/2021	N	**250.31**		**1.01**		0.07	U
MC-8	SMCMMCOU-GW-MC-8-051421-0	05/14/2021	N	**259.86**		**1.01**		**0.60**	
MC-8	SMCMMCOU-GW-MC-8-091521-0	09/15/2021	N	**266.43**		**0.97**		0.07	U
MC-6	SMCMMCOU-GW-MC-6-051421-0	05/14/2021	N	**263.06**		**1.06**		**0.60**	
MC-6	SMCMMCOU-GW-MC-6-091521-0	09/15/2021	N	**299.68**		**1.01**		0.07	U
DV-2	SMCMMCOU-GW-DV-2-051721-0	05/17/2021	N	**289.36**		**1.18**		**0.50**	
DV-3	SMCMMCOU-GW-DV-3-051421-0	05/14/2021	N	**256.64**		**1.04**		**0.50**	
DV-3	SMCMMCOU-GW-DV-3-091521-0	09/15/2021	N	**316.31**		**1.04**		**0.29**	J

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Notes:

1. **Bold** indicates detected values.
2. Values shaded with gray are detected results that exceed the HHSL.

[a] Values are the individual tapwater RSL values for nitrate and nitrite. The nitrate+nitrite RSL is based on the lesser of nitrate RSL and nitrite RSL.

Acronyms and Abbreviations:
% = percent
-- = not applicable
A/C = anion/cation
ESL = ecological screening level
FD = field duplicate
HHSL = human health screening level
ID = identification
MCL = maximum contaminant level
meq/L = milliequivalent per liter
mg/L = milligram per liter
N = primary sample
RSL = regional screening level
USEPA = United States Environmental Protection Agency

Qualifiers:
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected. The associated value is the analyte method detection limit adjusted for sample variables such as volume, mass, moisture, and dilution.
UB = The analyte is considered nondetect at the listed value due to associated blank contamination.
UJ = The analyte was analyzed for but was not detected. The reported method detection limit is approximate and may be inaccurate or imprecise.

Screening Level Hierarchy:
HHSLs were selected based on the lower of the following:
- Primary MCLs (USEPA 2009)
- Secondary MCLs (USEPA 2009)
- USEPA tapwater RSL for an estimated lifetime cancer risk of 1 x 10^{6} or a noncancer hazard quotient of 0.1 (USEPA 2021).

No ESLs were selected for groundwater.

Screening Level Sources:
Secondary MCL = USEPA secondary MCL (USEPA 2009).
Primary MCL = USEPA primary MCL (USEPA 2009).
Tapwater RSL = USEPA tapwater regional screening level for estimated lifetime cancer risk of 1 x 10^{6} or a noncancer hazard quotient of 0.1 (USEPA 2021).

References:
USEPA. 2009. List of Contaminants and their MCLs. USEPA. Web page. Updated May 2009. Available online at: http://water.epa.gov/drink/contaminants.
USEPA 2021. Regional Screening Levels for Residential Tapwater. May. Available online at: http://www2.epa.gov/risk/risk-based-screening-table-generic-tables/.