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Draft Final West Side Soils Operable Unit Remedial Investigation Sampling Data Summary Report

Pioneer Technical Services, Inc.

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July 5, 2022

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RE: ***Draft Final West Side Soils Operable Unit Remedial Investigation Sampling Data Summary Report (DSR)***

Gentlemen:

I am writing you on behalf of Atlantic Richfield Company to submit the *Draft Final Atlantic Richfield West Side Soils Operable Unit Remedial Investigation Sampling Data Summary Report (DSR)* via the link included with this email. This DSR summarizes Remedial Investigation Data collected on behalf of Atlantic Richfield Company (Atlantic Richfield) on Atlantic Richfield wholly and partially owned mining claims within WSSOU as required by Unilateral Administrative Order (UAO) CERCLA-08-2019-0004.

This fulfills the requirement set forth in the UAO for submission of all deliverables for data collected by and on behalf of Atlantic Richfield. Previous submission of the *Draft Final 2020 Remedial Investigation Sampling Data Validation Report*; dated December 17, 2020, generated Agency comments dated April 27, 2021, with general comments for Data Management and Remedial Investigation Data Collection and comments specific to the 2020 DVR. Revision 1 of the 2020 DVR appended within this DSR contains Atlantic Richfield responses to comments specific to the DVR. Atlantic Richfield responses to Agency comments pertaining to Data Management and RI Data Collection are contained in the appropriate summary table in Appendix A of the DSR.



A BP affiliated company

If you have questions or concerns, please do not hesitate to call me at (406) 723-1834.

Sincerely,

A handwritten signature in blue ink, appearing to read "Josh Bryson".

Josh Bryson, PE, PMP
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Remediation Management Services Company
An affiliate of **Atlantic Richfield Company**

Cc:

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**SILVER BOW CREEK/BUTTE AREA NPL SITE
WEST SIDE SOILS OPERABLE UNIT**

Draft Final

*West Side Soils Operable Unit Remedial
Investigation Sampling Data Summary Report*

Atlantic Richfield Company

July 5, 2022

**SILVER BOW CREEK/BUTTE AREA NPL SITE
WEST SIDE SOILS OPERABLE UNIT**

Draft Final

***West Side Soils Operable Unit Remedial
Investigation Sampling Data Summary
Report***

Prepared for:

Atlantic Richfield Company
317 Anaconda Road
Butte, Montana 59701

Prepared by:

Pioneer Technical Services, Inc.
1101 S. Montana Street
Butte, Montana 59701

July 5, 2022

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REVISION SUMMARY

| Revision No. | Author | Version | Description | Date |
|---------------------|-----------------|----------------|----------------------------|--------------|
| Rev 0 | Cole Dallaserra | Draft | Issued for Internal Review | May 24, 2022 |
| Rev 1 | Cole Dallaserra | Draft Final | Issued for Agency Review | July 5, 2022 |

ABBREVIATIONS AND ACRONYMS

| Acronym | Definition | Acronym | Definition |
|--------------------|---|------------------|--|
| ABA | Acid-Based Accounting | LCSD | Laboratory Control Sample Duplicate |
| Atlantic Richfield | Atlantic Richfield Company | LLICV | Lower Limit Initial Calibration Verification |
| BMFOU | Butte Mine Flooding Operable Unit | LMS | Laboratory Matrix Spike |
| BPSOU | Butte Priority Soils Operable Unit | LMSD | Laboratory Matrix Spike Duplicate |
| CCS | Calibration Check Standard | MDL | Method Detection Limit |
| CCV | Continuing Calibration Verification | NPL | National Priorities List |
| CDM Smith | CDM Federal Programs Corporation | OU | Operable Unit |
| CFRSSI | Clark Fork River Superfund Site Investigation | Pace | Pace Analytical Services, LLC |
| DM/DV | Data management/ Data Validation | Pioneer | Pioneer Technical Services, Inc. |
| DPT | Direct-Push Technology | QA | Quality Assurance |
| DQA | Data Quality Assessment | QAPP | Quality Assurance Project Plan |
| DQO | Data Quality Objective | QC | Quality Control |
| DSR | Data Summary Report | RI | Remedial Investigation |
| DVR | Data Validation Report | SD | Serial Dilution |
| EPA | U.S. Environmental Protection Agency | SiO ₂ | Silicon Dioxide |
| FPXRF | Field Portable X-Ray Fluorescence | SLERA | Screening-Level Ecological Risk Assessment |
| GIS | Geographic Information System | SOP | Standard Operating Procedures |
| GPS | Global Positioning System | SOW | Statement of Work |
| ICV | Initial Calibration Verification | SPLP | Synthetic Precipitation Leaching Procedure |
| IVBA | In Vitro Bioaccessibility Assay | UAO | Unilateral Administrative Order |
| LCS | Laboratory Control Sample | WSSOU | West Side Soils Operable Unit |

ABSTRACT

This West Side Soils Remedial Investigation (RI) Data Collection Data Summary Report (DSR) presents the results of the surface soil sampling conducted from October 23, 2019, through November 15, 2019, and from May 12, 2020, through June 9, 2020, and the subsurface soil sampling event conducted from June 18, 2020, through July 9, 2020, at the West Side Soil Operable Unit (WSSOU) Site. Additional subsurface samples were prepared from February 16, 2021, through March 2, 2021, from archived portions of cores from the previous subsurface sampling event. Additional surface data, as requested by U.S. Environmental Protection Agency (EPA), was collected from September 20, 2021, through September 28, 2021. The work was completed under the guidelines of the approved *Final Quality Assurance Project Plan (QAPP) West Side Soils Operable Unit RI Sampling Silver Bow Creek/Butte Area Superfund Site* (EPA, 2019a) (referred to herein as QAPP). Sampling efforts for Atlantic Richfield Company owned and partially owned mining claims were described in the RI Statement of Work (SOW), which is included as Attachment A of the *Unilateral Administrative Order (UAO) for RI Data Collection for the West Side Soils Operable Unit (OU 13) of the Silver Bow Creek/Butte Area Superfund Site* (EPA 2019b) (referred to herein as WSSOU UAO). This DSR includes the analytical results of soil samples including soil paste pH, field-portable X-ray fluorescence (FPXRF), total metals, synthetic precipitation leaching procedure (SPLP), acid-base accounting (ABA), and In Vitro Bioaccessibility Assay (IVBA). Lithological layers were identified visually from each core. Not all samples received all analyses. Global Positioning System (GPS) points were collected for all locations of all collected data.

All data from 2019 and 2020 were submitted to Agencies prior to this DSR. Previously shared data are considered “preliminary,” and all data contained herein within this DSR supersede previously submitted data.

This DSR was prepared by Pioneer Technical Services, Inc. (Pioneer), 1101 S. Montana Street, Butte, Montana, 59701 for:

Atlantic Richfield Company
317 Anaconda Road
Butte, Montana 59701

STATEMENT OF AUTHENTICITY

Consistent with the provisions described in the WSSOU UAO, the data sets in this document are considered to be final data, generated or evaluated. Consistent with the aforementioned order, the signatories below hereby stipulate to the authenticity and accuracy of the data and hereby waive any evidentiary or other objection as to the authenticity and accuracy of reference in endangerment assessments, public health evaluations, feasibility studies, and remedial design/remedial action documents.

Approved by: _____ Date _____
Josh Bryson
Liability Manager
Atlantic Richfield Company

Approved by: _____ Date _____
Nikia Greene
Remedial Project Manager
U.S. Environmental Protection Agency
Region VIII

Approved by: _____ Date _____
Daryl Reed
State Project Officer
Montana Department of Environmental Quality

Approved by: _____ Date _____
Pat Sampson
Project Manager
Pioneer Technical Services, Inc.

EXECUTIVE SUMMARY

This WSSOU DSR presents the results of the surface soil sampling event performed from October 23, 2019, through November 15, 2019, and from May 12, 2020, through June 9, 2020; the subsurface soil sampling event performed from June 18, 2020, through July 9, 2020; and the additional subsurface samples collected from archived cores from February 16, 2021, through March 2, 2021. Additional surface data were collected from September 20, 2021, through September 28, 2021, in areas identified by EPA as potential data gaps.

Sampling was conducted under the guidelines of the approved QAPP. Sampling efforts for mining claims owned or partially owned by Atlantic Richfield Company (Atlantic Richfield) were described in the RI SOW (Appendix A of the WSSOU UAO), and the *Final RI Data Collection Work Plan* (Atlantic Richfield, 2019) information along with data from the RI sampling efforts will be used to characterize the potential contamination at the Site and evaluate potential human health and ecological risks. Remedial investigations determine the nature and extent of contamination and any threat to the public health, welfare, or the environment caused by release or threatened release of hazardous substances.

The DSR includes all FPXRF and soil pH data, laboratory analytical data, and data validation packages. Also, geographic information system (GIS) files, photographs, and all other relevant field information collected by Atlantic Richfield are submitted to EPA as part of this DSR. The DSR will not include analysis or interpretation of the data by Atlantic Richfield.

During the sampling event, paste pH and natural soil samples were collected from 83 mining claims with disturbed areas. Disturbances were identified by an initial desktop review using satellite images and a field exploration by the field team leader. Sample locations are provided in the Figures section. Each sample location and type were decided in the field by the field team leader based on observations, site characterization, and accumulated field data.

A total of 1,010 surficial sites were investigated for potential sampling and field characterization, and 139 locations were selected from these surficial sites for laboratory sample collection. A total of 78 sites were selected for subsurface soil investigations, which resulted in collecting a total of 118 laboratory samples from different depth intervals below ground surface. Soil samples were analyzed for pH, ABA, target analyte list, SPLP and IVBA. Not all samples were sent for laboratory analyses or received analysis for each parameter stated.

Pioneer submitted soil samples to Pace Analytical Services, LLC (Pace) for metals and other analyses as listed in Table B-5 of the QAPP. Total metals were analyzed by EPA Method 6010B (ICP-AES). Pace also performed SPLP by EPA Method 1312 and ABA by Modified Sobek for surface samples and EPA600/2-78-054 for subsurface sample analyses as requested by Atlantic Richfield or Pioneer (EPA600/2-78-054 is a deviation from the QAPP. See Section 4.0 for details). In response to Addendum 1 of the QAPP, Pioneer selected 8 locations approved by EPA for IVBA analysis as described in the Addendum. Pace analyzed the IVBA samples per EPA IVBA method (EPA, 2017) and EPA SW-846 6010C. Analytical results were reported in full data packages. A data validation system was implemented consistent with the procedures described in the *Clark Fork River Superfund Site Investigation (CFRSSI) Data Management/Data Validation (DM/DV)*

Plan (ARCO, 1992) and the *CFRSSI DM/DV Plan Addendum* (AERL, 2000a). The format for this DSR is consistent with the format established in the *CFRSSI Pilot Data Report Addendum* (AERL, 2000b).

1.0 INTRODUCTION

This DSR summarizes data collected for the WSSOU #13 RI Sampling on mining claims owned and partially owned by Atlantic Richfield. The information contained in this DSR was gathered following objectives and procedures documented in the approved QAPP and the Final RI Data Collection Work Plan (Atlantic Richfield Company, 2019). The soil sampling was conducted in conjunction with a RI of the entire WSSOU conducted by EPA and its contractors. As discussed in the WSSOU UAO, EPA is holding Atlantic Richfield responsible for collecting samples on properties that they own, wholly or partially, within the “Mine Study Area.”

Sampling efforts for Atlantic Richfield owned and partially owned mining claims were described in the RI SOW (Appendix A of the WSSOU UAO) and Final RI Data Collection Work Plan (Atlantic Richfield Company, 2019). Analytical data collected during these sampling events is used to assess and characterize the potential contamination at the Site and evaluate potential human health and ecological risks.

The current Mine Study Area contains 462 unique mining claims as described in the QAPP. Of the 462 mining claims identified in the QAPP, approximately 58 are entirely owned by Atlantic Richfield and an additional 32 mining claims have been identified as partially owned by Atlantic Richfield. Several other mining claims, extending northeast, north, west, and south of the primary Mine Study Area, are comprised of several different ownerships including some that are residential. Pioneer studied 70 wholly owned and 37 partially owned claims within and around the primary Mine Study Area. Table 1 summarizes claim names, CDM claim numbers, identification, and sampling efforts.

Pioneer completed a preliminary desktop review of the Atlantic Richfield-owned and partially owned mining claims using the format provided by CDM Federal Program Corporation (CDM Smith). The desktop review used historical and internet-based resources to investigate the magnitude of mining impacts on a set of mining claims. The objective of the desktop review was to classify claims as primary or secondary sites with respect to the level of investigative effort.

Primary and secondary study areas for each claim were identified based on desktop review, which guided the level of effort anticipated for field sampling. Primary study areas have larger disturbances and underground workings associated with former active mines, whereas secondary study areas have smaller disturbances typically associated with only exploration. Claims identified with no disturbances were generally not field investigated, and therefore do not provide any analytical data.

Information referenced throughout this DSR is included in the appendices listed below:

- Appendix A Atlantic Richfield Response to Agency Comments from Comment Letter Dated April 27, 2021, Specific to General Comments for Data Management and Remedial Investigation Data Collection.
- Appendix B Data Validation Reports.
- Appendix C Copies of Field Sheets and Notes.

- Appendix D Laboratory Analytical Full Data Packages.
- Appendix E Electronic Database.

This DSR presents the data collected through field exploration and laboratory analyses, described in the field sampling method, and lists and discusses deviations from the QAPP. Stage 4 data validations (Quality Assurance [QA]/Quality Control [QC] review) of the data are included in the applicable Data Validation Report (DVR) in Appendix B. The original field logbooks and field data sheets for this investigation are located at the Pioneer office in Butte, Montana. Copies of this information are included in Appendix C.

1.1 Investigation Site Description

The project Site, consisting primarily of the Mine Study Area, is located north and west of the Butte Priority Soils Operable Unit (BPSOU) in Butte, Montana. The properties of the project Site that are not included in the Mine Study Area, lie south, northeast, north, and west of the BPSOU. The following is the description of the investigation site as described in Section A5.2 of the QAPP:

“As defined in the BPSOU record of decision (EPA 2006b), the WSSOU lies generally to the north and west of the BPSOU and includes other historic mining and metals-impacted¹ areas within the Site not addressed under the BPSOU, the Butte Mine Flooding Operable Unit (BMFOU), or the active mining area. The WSSOU abuts the BPSOU and active mining area/BMFOU to the east, and the Streamside Tailings OU and Rocker Timber Framing and Treating Plant OU to the south. The boundary of the WSSOU is currently undetermined.

The Summit Valley Mining District or Butte Mining District encompasses all the City of Butte and surrounding areas. The area west and northwest of the City of Butte and Montana Tech within this larger district is known as the Independence Mining District, although its boundary is also not well defined. Generally, the WSSOU mine study area was established to encompass the Independence Mining District in an area of primarily range land, with some rural residences. Several hundred mine claims are present with smaller disturbances associated with exploration, as well as several larger abandoned mines with substantial surface mine dumps and underground workings. The WSSOU mine study area has not yet been thoroughly assessed to determine the nature and extent of contamination and potential remedial actions. This QAPP addresses data needs to complete an RI and a screening-level ecological risk assessment (SLERA).

The Independence Mining District was officially established in 1884, primarily exemplified by the rich silver ore veins present in the area west of Butte. Manganese ores were also a large source of mining activity due to use of manganese as a flux in other mineral processing. In the 1880s, at least 18 actively producing silver mines were operating in the district. Placer claims were also established along various area drainages likely for silver and gold production. The town of Burlington appeared in the 1880s in support of the extensive active mining, along with other smaller communities of Busterville and Champion in the area. Burlington had a population of 344 registered voters in 1890, although as mining practices and economic conditions changed over time the town virtually disappeared by 1910. Fluctuating silver prices resulted in boom and bust conditions through the 1920s and minor mining activity thereafter.”

Claims investigated within the site described above and summarized herein are those that are either wholly or partially owned by Atlantic Richfield. Table 1 provides a list of these claims and a summary of sites investigated on the given claim. Figure 1 contains the site location map, and Figure 2 displays an overview of the site including sampled claims that are owned by Atlantic Richfield and the primary Mine Study Area as defined in the WSSOU UAO.

1.2 Investigation Objectives

The information compiled in this DSR summarizes the WSSOU RI data collection performed by Pioneer on claims owned or partially owned by Atlantic Richfield. The objective of sampling was to obtain sufficient data to determine the nature and extent of contaminated soil in conjunction with the investigation conducted by EPA. The QAPP identifies the following as the primary monitoring objectives:

1. *Determine the nature and extent of soil and mine waste in the WSSOU mine study area.*
2. *Determine the potential for mine waste to be acid-generating and/or leachable.*
3. *Determine the geochemical characteristics in background soils.*
4. *Determine the nature and extent of surface water and sediment contamination in drainages associated with the WSSOU mine study area.*
5. *Determine the nature and extent of contamination within the Blacktail Creek upgradient of the Butte Priority Soils Operable Unit (BPSOU).*
6. *Determine the nature and extent of contaminated stormwater discharge to Silver Bow and Blacktail Creeks in areas upgradient of BPSOU.*

Per the RI SOW (Appendix A of the WSSOU UAO), EPA will be responsible for sampling surface water that crosses properties owned by Atlantic Richfield. Likewise, any discharging adits will be sampled (as surface water) and gaged by EPA. Pioneer collected soil samples from visual erosion features from mine waste dumps actively eroding into drainages of WSSOU. Pioneer did not collect any water samples.

2.0 SAMPLING AND ANALYSES SUMMARY

The QAPP identifies the established RI for the Silver Bow Creek/Butte Area Superfund Site, with Appendix B providing guidance for the soil sampling of the WSSOU of the Silver Bow Creek/Butte Area National Priorities List (NPL) Site. All samples were collected by methods outlined in the QAPP, which includes surface solid media and sediment. Table 2 and Table 3 provide surface and subsurface sample collection summaries.

As outlined in the QAPP, “Paste pH, SPLP, and ABA analysis will be used to determine the extent of leaching and potential acid generation. SPLP data will indicate whether soils contain leachable metals and to what extent. Paste pH data, compared to background soil pH or other adjacent unimpacted soil pH results, will indicate impacts from acid-generating minerals. ABA results provide a quantitative assessment of the amount of acid-generating potential a soil sample has, and whether the sample also contains neutralizing potential from geologies such as calcite.

Depressed soil pH from acid-generating mineralogy results in vegetation stress and other potential impacts to ecological receptors and provides an indication that heavy metals are being potentially leached into the environment.”

The general positions of all sampling locations sampled during the surface and subsurface events are provided on Figure 3 through Figure 21. A summary of surface and subsurface soil sample collection is provided in Table 2 and Table 3, respectively. Field observations and instrument calibrations were documented daily in the field logbook (Appendix C). All geodata is contained in Appendix E.

Atlantic Richfield began surface soil sampling in October 2019 after Agency approval of the Final Remedial Investigation Data Collection Work Plan (Atlantic Richfield Company, 2019). That round of soil sampling stopped on November 15, 2019, due to freezing weather and snow cover. The onset of the COVID-19 pandemic delayed the resumption of sampling activities in Spring 2020. Surface soil sampling resumed on May 12, 2020, and continued through June 10, 2020. The subsurface portion of the data collection effort ran from June 18, 2020, until July 10, 2020. Additional samples were requested from archived subsurface core material, and these samples were collected from February 16, 2021, through March 2, 2021. As stated above, all data were shared with EPA ahead of this DSR to aid EPA’s RI/Feasibility Study (FS) efforts. As such, potential data gaps were identified during EPA’s spatial review of the data. Therefore, additional surface characterization was completed from September 20, 2021, through September 28, 2021.

2.1 Soil Data Collection

Site reconnaissance consisted of desktop and field reconnaissance. Field reconnaissance included preliminary site visits, aerial imagery, and in-field observations while sampling.

To assess the potential for the RI, mine waste and soil samples were analyzed for total metals and SPLP metals concentrations to assess whether metals are present and whether present metals are leachable. Current and future acid-generating potential was assessed through field paste pH and laboratory ABA analytical methods, respectively, as well as lithologic logging to identify the presence of acid-generating mineralogy. Select samples were analyzed for IVBA at the request of EPA. Collectively, results of this sampling effort will provide data to indicate whether mine waste and soil associated with abandoned mines and mineral exploration areas are sources of potential contamination to downgradient soil, sediment, surface water, and groundwater.

2.1.1 Surface Soil Data Collection Methods

Surface soil collection took place on both primary and secondary mining claims. Areas were observed and characterized to determine the type of sampling needed. The collection amount varied for areas with similar characteristics and soil pH, and the area was assessed by determining the pile size, material, color, and pH to determine how many samples would be needed to get an overall assessment of the area. Each sample consisted of a grab or composite sample. Grab samples were comprised of having 3 to 4 scoops of material from a single area typically less than a 1-foot diameter. Composite samples were comprised of having 3 to 10 subsample locations across a specific area or feature that was represented by the composite sample collected. Approximately 0

to 2 inches of fine material were collected for all sample types. Samples collected for FPXRF were sieved through a #10 or equivalent disposable sieve to ensure only fine material was collected and analyzed using a Niton XL3 Field Portable X-Ray Fluorescence analyzer. Samples analyzed by FPXRF during the 2019 and 2020 sampling events were not analyzed for elements in the low range per the Final RI Data Collection Work Plan (Atlantic Richfield, 2019). However, during technical meetings to discuss data validation pertaining to FPXRF, it was determined that the low, main, and high ranges should be ran so that the FPXRF results would include as many elements in the target analyte list as possible. All ranges were run for the 2021 FPXRF analyses. Natural samples and field duplicates were sent to the laboratory for appropriate laboratory sample analysis.

Grab paste pH samples were collected using disposable trowel scoops, plastic cups, and deionized (DI) water. Approximately one inch of fine material was scooped into the bottom of the cup. DI water was added to the sample, and the cup was swirled until a paste was made. An Oakton® pH Testr™ 50 was used to measure the paste pH sample. The pH meter was decontaminated with DI water after each use. The collected soil was returned to the area the sample was collected and tools were discarded. This limited the need to decontaminate tools.

A tablet with the application Avenza was used to record the exact sample locations for samples collected during 2019 and 2020. For the additional data collected in Fall 2021, the Survey 123 application was used in conjunction with Collector (both ESRI products) on an iPad equipped with a Bad Elf GNSS Surveyor device to enhance accuracy. For the Avenza application, a colored pin on the app would indicate a grab sample location. Similarly, a tracked polygon on the application would indicate a composite sample collected within the defined polygon. Each location and type of sample collected were recorded (pH, FPXRF, laboratory sample, etc.). During additional data collection in 2021, Collector was used to mark the grab locations and polygons for composite samples, while Survey123 was used to collect required sample site information. Photos were also taken with both applications and stored with the location along with pH values and site notes about the sample location.

2.1.2 Subsurface Soil Data Collection Method

Primary mine waste dumps were sampled with a direct-push technology (DPT) rig to determine the extent of larger mine waste dumps. The same field and laboratory parameters were collected from the selected depths based on observations to determine the vertical extent of mine waste dumps. Volumes of mining related waste are estimated by collecting depth and extent information in the location of the dump.

The area being drilled was first utility located and blind swept to ensure no underground utilities were present. The drilling team set up the rig using the dual-tube core recovery system with 4- and 5-foot core tubes. The length of tube was consistent throughout the drilling of the bore hole until completion, meaning a hole using the 4-foot system used that system until the hole was completed. Lithology was logged and recorded on a borehole log sheet as the core was recovered from the ground. Percent recovery was measured and recorded along with each interval of core observed. The borehole lithology log sheets can be found in Appendix C.4. Additional detail on the DPT sample collection is summarized in Section 2.2.2.

During the DPT effort, generally only the interval deemed to be native and just below mine waste was analyzed for field paste pH, FPXRF, and sent to the laboratory for total metals analysis. The amount of this interval varied for each hole and was typically 2 to 3 inches. Field Portable X-ray fluorescence analyses on these samples were not sieved since they were being sent to the laboratory and there was not enough material from the core to allow sieving while maintaining the integrity of the natural sample.

Material from each DPT boring was stored in resealable plastic bags from each interval of core. Bags were labeled by mining claim (CDM claim number), DPT number, interval, and date sampled. Bags were then placed into a box and stored at room temperature at the Pioneer laboratory in Butte, Montana. The archived material was later used for additional paste pH and laboratory samples as described in Section 2.1.3.

2.1.3 Additional Subsurface Soil Data Collection Methods

EPA requested additional samples to fill in data gaps. Cores that were previously collected and sent to the laboratory were no longer available to run additional analysis because they were discarded by the laboratory prior to the request; therefore, archived portions of core from previous sampling events were used. Each interval from the 78 DPT locations was sampled for paste pH at a minimum. Specific intervals were requested to be sampled; however, if more acidic intervals were found they could be sampled as well. These intervals were analyzed for paste pH and collected into a different bag to be sent to the laboratory. However, due to the limited amount of material in some of the requested intervals more material was required for analysis. Additional material came from other closely related pH material directly above or directly below the requested interval to be included in the sample. These combinations can be found in the logbook in Appendix C.1.

Archived intervals were stored in resealable plastic bags labeled with the mining claim (CDM claim number), DPT number, interval, and date sampled. The core was kneaded within the stored bag to ensure the material was broken up and homogenized. A disposable scoop was used to collect material from the bag to collect pH in a disposable cup. Material used for laboratory samples was kneaded and collected in similar fashion as for pH analysis. However, due to the small amount of material archived, the entire homogenized bag was transferred to a clean resealable plastic bag labeled for laboratory analysis. Hold times for these samples were exceeded. Table 3 shows the date and time the sample was taken from the ground, which was used for naming convention, and depicts the date and time the sample was collected from the archived material. Intervals with closely related geology and pH were combined in instances where there was an insufficient material amount. These combinations can be found in the logbook in Appendix C.1 and the field sheet provided in Appendix C.2.

2.2 Sampling Results

Results for surface and subsurface paste pH can be found in Table 2 and Table 3. Laboratory analytical data is summarized in the respective full data package from Pace in Appendix D, and FPXRF data can be found in the applicable DVRs provided in Appendix B. The electronic database provided in Appendix E contains all soil sample results, including field paste pH, FPXRF, and

respective analytical results. Secondary mineralization observations, when noted, and sample site descriptions are also included in the geodatabase as part of Appendix E. The figure set attached to this report shows a general overview of claims that Atlantic Richfield owns and the extent of surface and subsurface investigations. Quality assurance checks have been made to ensure the accuracy and consistency of reported results across all associated databases and reporting tables.

2.2.1 2019 Soil Sampling Results

Soil samples collected in 2019 consisted of surface soil collection only. In total, 237 sites were visited from varying mining disturbances from mining claims within the West Side Soils site. A total of 232 natural samples were collected for field and/or laboratory analysis. This included 108 FPXRF analyses, 47 total metals analyses (including 8 that received multi-incremental soil [MIS] sample preparation), 9 SPLP analyses, and 3 ABA analyses. Of the 237 sites visited, 231 were measured for pH; pH was not recorded for 1 sample, and 5 sites were listed as bedrock outcrops, bare areas, or well vegetated areas with no pH or sample collected. Duplicate samples are not counted in this summary. No subsurface samples were collected in 2019. A GPS location, photograph, and logbook note were taken for some physical features observed during site characterization, but not assigned a “SO” number as other observed physical features described above. Those locations show up in the geodatabase and are named according to the description of the feature observed.

Mining claims were individually investigated by Google Earth images and walking inspections to verify any mining related disturbances. These areas were identified and sampled in 2019. Samples were collected as determined by the field team leader. Sample analyses were chosen by dump characterization, dump size, soil properties, and field measurements. Samples sent to the laboratory were based off collected field data. Validated data is summarized in the appropriate DVR in Appendix B (Appendix B.1 for laboratory analysis and Appendix B.3 for FPXRF data). All data are provided in the electronic database in Appendix E.

2.2.2 2020 Soil Sampling Results

Soil samples collected in 2020 consisted of collecting surface soil and subsurface soil. For surface soil samples, 648 sites were visited from varying mining disturbances from mining claims within the West Side Soils site. A total of 602 natural samples were collected for field and/or laboratory analysis. This includes 219 FPXRF analyses, (one of which was a sample collected from a site investigation on a parcel that was later removed from the WSSOU UAO), 70 total metals analyses (including 14 samples that received MIS sample preparation), 7 SPLP analyses, 7 ABA analyses, and 8 IVBA analyses. Of the 649 sites visited, 601 were measured for pH, and 47 sites were listed as bedrock outcrops, bare areas, well vegetated areas, or other observed feature with no pH or sample collected. Duplicate samples are not counted in this summary.

For subsurface soil samples, 78 locations were selected for DPT holes to be drilled. Typically, one hole was pushed at each location, but there were instances where a “B” location was required. These locations were close to the original “A” location. This resulted from either poor core recovery from a given interval or refusal before native material was encountered. More detail on specific instances is contained in the Field Logbook entries in Appendix D.1. Three locations

(DPT-27, DPT-55, and DTP-58) encountered refusal before native material was encountered and no sample was originally collected. Other locations contain more than one natural sample collected. Samples in 2020 were collected once the native material was encountered and drilling was complete. Laboratory samples consisted of native material just below the waste dump material with a few additional samples of waste material collected just above the native material. FPXRF analysis was performed for the same interval that was sent for laboratory analysis. Intervals analyzed by FPXRF were not sieved to keep the natural sample intact. A total of 78 natural samples were collected for field and/or laboratory analysis. This includes 77 FPXRF analyses, 78 total metals analyses, and 76 field paste pH analyses (pH was not recorded for two samples). Duplicate samples collected are not counted in this summary. Additional data collected from archived cores as requested by EPA are summarized in section 2.2.3.

Analytical results are summarized and provided electronically in Appendix E. Validated laboratory analytical results, FPXRF results, and assessment are provided in the appropriate DVR in Appendix B (Appendix B.2 for laboratory analytical data and Appendix B.3 for FPXRF data).

2.2.3 2021 Soil Sampling Results

Sampling during 2021 was comprised of two different sampling events in response to EPA's request to gather more data. The request for additional data was formalized in the Comment Letter dated April 27, 2021, *Comments on WSSOU: Draft Final 2020 RI Sampling Data Validation Report; dated December 17, 2020*. The first event was completed in quarter 1 of 2021 on archived core material from the previous subsurface DPT event in Summer 2020. The second sampling event was conducted in Fall 2021 within areas identified by EPA as potential data gaps. Each sampling event is summarized, respectively, below.

Archived core sampling in 2021 contained all 78 DPT borings with each different interval being analyzed for paste pH and additional laboratory analysis as requested or determined necessary by the sampler. A total of 320 natural samples were collected for field and/or laboratory analysis. This includes 320 paste pH analyses, 36 total metals analyses, 31 SPLP analyses, and 13 ABA analyses. No FPXRF analysis was performed during this effort. Duplicate samples are not counted in this summary. Validation for the additional subsurface soil sample data can be found in Appendix B.4. Table 3 contains a summary of the samples and type of analysis performed. All data are contained in the electronic database in Appendix E.

Additional surface sampling conducted in 2021 was completed in areas identified by EPA as potential data gaps. CDM Smith reviewed the preliminary data and identified areas of potential data gaps. Prior to the field investigation, CDM Smith provided Pioneer with shapefiles delineating polygons of primary disturbed areas and polygons requesting field verification/characterization to delineate the areas where additional data collection was appropriate. The objective of collecting additional data was to collect enough surface data to fill in the potential data gaps and provide enough data to aid CDM Smith in their effort to identify disturbed area perimeters. On-site representation by EPA was provided during portions of the sampling event. Oversight was provided when initially kicking off the sampling and while characterizing areas of particular interest to EPA.

A total of 126 sites were characterized throughout the polygons delineated by EPA during the additional data collection. A total of 101 natural samples were collected for field and/or laboratory analysis. This includes 75 FPXRF analyses, 14 total metals analyses, 2 SPLP analyses, and 2 ABA analyses. Paste pH was recorded on 101 of the 126 sites visited, and the other 25 sites were listed as bedrock outcrops, bare areas, well vegetated areas, or other observed feature with no pH or sample collected. Duplicate samples are not counted in this summary.

Validated data for all additional surface samples collected in 2021 are summarized in the DVR in Appendix B (Appendix B.5 for laboratory analytical data and Appendix B.6 for FPXRF data). All data are provided in the electronic database in Appendix E.

3.0 DATA ASSESSMENT

The Data Quality Assessment (DQA) process (EPA, 2000) objective is to determine whether the project-specific objective have been satisfied and if the analytical results are acceptable for project decision making. The DQA process consists of five steps that relate the quality of the results to the intended use of the data:

Step 1: Review Data Quality Objectives (DQOs) and sampling design (Section 3.1).

Step 2: Conduct preliminary data review (Section 3.2).

Step 3: Apply statistical test(s), as appropriate, to the data set (not applicable).

Step 4: Verify assumptions (not applicable).

Step 5: Draw conclusions about the quality of the data (Section 3.5).

3.1 DQOs and Sampling Design

The DQOs for the RI sampling events, as discussed in Appendix B of the QAPP, are to collect quality soil samples to assess acid leaching soil trends at disturbed sites on mining claims and to characterize the potential contamination and evaluate potential human health and ecological risks at the Silver Bow Creek/Butte Area NPL Site. This DSR will not include an analysis or interpretation of the data collected by Atlantic Richfield.

The DQOs include collecting surface and subsurface soil samples in areas of concern within the Butte NPL Site to determine potential human health and ecological risks. Samples were analyzed for paste pH, FPXRF, total metals, SPLP, ABA, and IVBA. Not all samples collected were sent to the laboratory. Samples and field measurements summarized in this DSR were collected from October 2019 through November 2019, May 2020 through July 2020, February 2021 through March 2021, and September 2021.

3.2 Preliminary Data Review

A preliminary data review was conducted to determine if any problems or anomalies were present in the sample collection and analysis procedures. This was completed by data validation (Section 3.2.1 and Appendix B) followed by evaluating data quality indicators (Appendix B).

3.2.1 Data Validation

Pioneer performed Stage 4 data validation on laboratory data and Stage 2B data validation on FPXRF data of all the soil samples and field QC samples collected. Data validation was performed in sequences as data was collected. This was done to share data with EPA to aid the ongoing RI/FS while data collection continued. The bullets below outline the individual DVRs and the data contained within the report that was validated. The order is generally in the order in which the data were collected and the validation performed.

- Revised Final 2019 RI Sampling Laboratory DVR – Contains data validation on all laboratory analysis completed on samples collected during the 2019 field season. Report is in Appendix B.1.
- Final 2020 RI Sampling Laboratory DVR – Contains data validation on all laboratory analysis completed on all surface and subsurface samples collected during the 2020 field season. Report is in Appendix B.2.
- Draft Final 2019-2020 RI Sampling FPXRF DVR – Contains data validation on all FPXRF analyses on samples collected during the 2019 and 2020 field season. Report is in Appendix B.3.
- Draft Final 2021 RI Archived Core Sampling Laboratory DVR – Contains data validation on all laboratory analysis from samples collected on archived core material from the 2020 subsurface DPT investigation. Report is in Appendix B.4.
- Draft Final 2021 RI Additional Surface Sampling Laboratory DVR – Contains data validation on all laboratory analysis for samples collected during the 2021 field season in areas identified by EPA as potential data gaps. Report is in Appendix B.5.
- Draft Final 2021 RI Additional Surface Sampling FPXRF DVR – Contains data validation on all FPXRF analyses for samples collected during the 2021 field season in areas identified by EPA as potential data gaps. Report is in Appendix B.6.

The details and results of the data validation, as prepared by Pioneer, are provided in Appendix B. The 2019 and 2020 DVRs were sent out prior to this DSR at the request of the Agencies (Atlantic Richfield Company, 2020a and Atlantic Richfield Company, 2020b). The 2019 DVR was submitted as final on July 21, 2020; however, EPA never officially approved the final version. Upon spatial review of the data points, several data points within the 2019 DVR were identified that physically landed in a different claim than what was suggested in their individual sample identification. Those sample identifications were updated along with all associated databases, tables, and laboratory reports. Additionally, edits were made to update the 2019 DVR to be consistent with the other DVRs. Therefore, the Final 2019 DVR report contained in this DSR submittal will be the official version. These changes did not affect any other DVR within this DSR since they are all in Draft Final versions. Analytical results, assessment qualifiers, laboratory flags, sample locations, and FPXRF are summarized in the respective DVR tables provided in Appendix B.

Data validation is not required for soil sample paste pH. Paste pH samples were measured in a manner consistent with the procedures outlined in the QAPP, to the extent possible. Furthermore, pH was only used for field background data in the sampling selection process; the pH results can be found in Table 2 and Table 3.

An overall summary of the number of natural samples collected and data points generated with the enforcement and screening data quality designations is shown below:

| DVR/Analysis Group | Natural Samples ¹ | Data Points | Enforcement Quality Data Points (% of total) | Screening Quality Data Points (% of total) | Rejected Data Points (% of total) |
|---|------------------------------|---------------|--|--|---|
| 2019 Laboratory DVR | | | | | |
| Total Metals | 47 | 1,175 | 1,119 (95%) | 56 (5%) | 0 (0%) |
| SPLP | 9 | 216 | 205 (95%) | 11 (5%) | 0 (0%) |
| ABA | 3 | 24 | 13 (54%) | 11 (46%) | 0 (0%) |
| Subtotal | 47 | 1,415 | 1,337 (94%) | 78 (6%) | 0 (0%) |
| 2020 Laboratory DVR | | | | | |
| Total Metals | 148 | 3,700 | 3,568 (96%) | 132 (4%) | 0 (0%) |
| SPLP | 7 | 168 | 165 (98%) | 3 (2%) | 0 (0%) |
| ABA | 7 | 56 | 52 (93%) | 4 (7%) | 0 (0%) |
| IVBA | 8 | 48 | 36 (75%) | 12 (25%) | 0 (0%) |
| Subtotal | 156 | 3,972 | 3,821 (96%) | 151 (4%) | 0 (0%) |
| 2019 - 2020 FPXRF DVR | | | | | |
| FPXRF Surface | 327 | 4,905 | 2,888 (59%) | 2,017 (41%) | 0 (0%) |
| FPXRF Subsurface | 77 | 1,155 | 0 (0%) | 1,155 (100%) | 0 (0%) |
| Subtotal | 404 | 6,060 | 2,888 (48%) | 3,172 (52%) | 0 (0%) |
| 2021 Archive Core Laboratory DVR | | | | | |
| Total Metals | 36 | 900 | 35 (4%) | 865 (96%) | 0 (0%) |
| SPLP | 31 | 744 | 0 (0%) | 744 (100%) | 0 (0%) |
| ABA | 13 | 182 | 173 (95%) | 9 (5%) | 0 (0%) |
| Subtotal | 40 | 1,826 | 208 (11%) | 1,618 (89%) | 0 (0%) |
| 2021 Additional Surface Laboratory DVR | | | | | |
| Total Metals | 14 | 350 | 324 (93%) | 26 (7%) | 0 (0%) |
| SPLP | 2 | 48 | 47 (98%) | 1 (2%) | 0 (0%) |
| ABA | 2 | 28 | 2 (7%) | 26 (93%) | 0 (0%) |
| Subtotal | 14 | 426 | 373 (88%) | 53 (12%) | 0 (0%) |
| 2021 FPXRF DVR | | | | | |
| FPXRF Surface | 75 | 1,425 | 810 (57%) | 615 (43%) | 0 (0%) |
| Subtotal | 75 | 1,425 | 810 (57%) | 615 (43%) | 0 (0%) |
| Grand Total | 620 | 15,124 | 9,437 (62%) | 5,687 (38%) | 0 (0%) |

¹Total number of samples is not a summation of the number of samples for each analytical group because some samples had results for more than one analysis group.

3.3 Field Quality Control Sample Results

The field quality control samples were collected following the requirements in the QAPP: 1 field duplicate for every 20 natural samples was collected. Field QC sample results are provided in Appendix B.

3.3.1 Field Duplicate Results

Field duplicates were collected at a frequency of 1 duplicate per 20 natural samples collected for laboratory analysis, satisfying the QAPP requirements. A total of 14 field duplicate samples were

collected during the surface soil sampling events. A total of 10 field duplicate samples were collected during the subsurface soil sampling events. All field duplicate sample results and data quality assessments are included in the applicable DVR in Appendix B.

3.3.2 Field Blank Results

No field blanks were necessary during sampling events. This was due to using disposable sampling supplies which limited the need to decontaminate tools between samples.

3.4 Data Quality Indicators

Part of the DQA process is to evaluate the results against data quality indicators of precision, accuracy, representativeness, comparability, completeness, and sensitivity. An evaluation of each data quality indicator was completed during data validation and is included in each individual DVR in Appendix B. An overall summary for each data quality indicator is provided below.

3.4.1 Precision

Precision is the amount of scatter or variance that occurs in repeated measurements of a particular analyte. Indicators of precision, as applicable per analytical method, are as follows:

- Field duplicates.
- FPXRF duplicates.
- FPXRF replicates.
- Laboratory duplicates including:
 - Laboratory control sample duplicates (LCSD).
 - Laboratory matrix spike sample duplicates (LMSD).

Of the 15,124 natural data points, 143 (1%) were qualified for an indicator of precision.

3.4.2 Accuracy

Accuracy is the ability of the analytical procedure to determine the actual or known quantity of a particular substance in a sample. Indicators of accuracy, as applicable per analytical method, are as follows:

- FPXRF energy calibration check (system check).
- FPXRF calibration check standards (CCS).
- FPXRF silicon dioxide (SiO₂) standard.
- Calibration.
- Initial calibration verification (ICV) samples.
- Low limit initial calibration verification (LLICV) samples.
- Continuing calibration verification (CCV) samples.
- Interference check samples (ICS).

- Laboratory control samples (LCS) and LCSDs.
- Laboratory matrix spike (LMS) samples and LMSD.
- Laboratory post-digestion spike samples.
- Serial dilution (SD) samples.

Of the 15,124 natural data points, 3,289 (22%) were qualified for an indicator of precision. Of these qualifications, 1,076 were made to the FPXRF results due to detections in an SiO₂ standard sample, and 2,957 were made to the FPXRF results due to poor CCS recovery. Of the 7,639 laboratory-generated natural data points, 332 (4%) were qualified for an indicator of precision.

3.4.3 Representativeness

Representativeness was assessed based on review of sampling procedures and design, holding times and preservation criteria, and chain of custody forms completeness.

The laboratory results were reviewed, and data validation completed. Holding time criteria were not met for 1,608 natural data points. Preservation criteria were not met for 75 natural data points. Most of these qualifications were made to samples that were collected from archived cores with the understanding that holding times and preservation requirements would not be met for some analyses (Appendix B.4). These data points are considered usable as screening quality data. Chain of custody forms were complete and are included in the data packages. The representativeness goals were met.

3.4.4 Comparability

Comparability was assessed to determine if one set of data can be compared to another set of data. Comparisons were made by examining and comparing the laboratory and field methods used to acquire sample data for different distinct data sets.

The soil samples were collected using standard sampling methods and Pioneer Standard Operating Procedures (SOPs). The sampling design, SOPs, and laboratory analytical methods are based on EPA and other industry standard practices and were documented in the field logbook. Sample collection was completed by professionals who were properly trained in the SOPs and equipment use. The analytical laboratories performed the sample analysis using industry standard methods.

There were 1,155 natural data points that were qualified because of a deviation in the FPXRF sample preparation. All subsurface samples underwent the “Sample Bag” preparation method instead of “Simple Sieve.” Refer to Section 4.0 and Appendix B.4 for more details.

The subsurface FPXRF sample data are considered usable with the recognition that they are considered screening quality due to the lack of sieving prior to FPXRF analyses. Consequently, data from future soil sampling events at WSSOU using comparable sampling and analysis may be used in concert with the sample data.

3.4.5 Completeness

Completeness is assessed to determine if enough valid data were collected to meet the investigation needs. Completeness is assessed by comparing the number of valid sample results to the number of sample results planned for the investigation. The completeness target for this investigation was 90% or greater as designated in the QAPP.

All planned samples met the Level A and Level B criteria and were analyzed for the required analytes. Screening quality data is considered usable *a priori*, within the confines of data interpretation, and no data points were rejected. Therefore, the completeness for data based on the sample collection and analysis was 100%.

The Final RI Data Collection Work Plan (Atlantic Richfield, 2019) states, “*At a minimum, 20% of soil samples (1 out of 5 samples) analyzed by field XRF will be submitted for laboratory analysis.*” A total of 479 samples were analyzed by FPXRF, and 116 (24%) of these samples were analyzed by the laboratory. Therefore, the 20% goal was met.

3.4.6 Sensitivity

Sensitivity was evaluated by comparing the detection limit (laboratory reporting limit or the laboratory method detection limit, as applicable) of non-detect results to the project-specific sensitivity requirements. The reporting limits in Table B-5 of the QAPP were used to evaluate sensitivity for soil analyses, and the reporting limits in Table B-4 of the QAPP were used to evaluate sensitivity for SPLP analyses.

There were some instances where the non-detect results were higher than the project-specific results. Details are provided in Appendix B.

These data are considered usable with the recognition that some of the detection limits are higher than the reporting limits listed in Table B-5 and Table B-4 of the QAPP.

3.5 Conclusions Regarding Data Quality

The field and laboratory samples were collected using standard sampling methods according to relevant Pioneer SOPs. The sampling design, SOPs, and laboratory analytical methods were based on EPA and other industry standard practices. Sample collection was completed by professionals who were properly trained in following SOPs and using equipment. Proper chain of custody and sample handling activities were observed during sample collection, delivery to the laboratory, and analyses. The analytical laboratories performed the sample analyses using industry standard methods. As shown in the checklists (Appendix B), all data met the Level A and Level B criteria.

The following is an assessment of the quality and quantity of the data collected with its intended uses as defined by the DQOs.

| DQO | Assessment of the Data Quality |
|---|---|
| Determine the nature and extent of soil and mine waste in the WSSOU Mine Study Area. | The quality and quantity of data collected is sufficient to support the EPA RI/FS for the site. |
| Determine the potential for mine waste to be acid-generating and/or leachable. | Sufficient quantity and quality of data to help determine the DQO |
| Determine the geochemical characteristics in background soil. | Data was collected on background soils within well vegetated/visually unimpacted areas to achieve DQO. |
| Determine the nature and extent of surface water and sediment contamination in drainages associated with the WSSOU Mine Study Area. | Surface water DQO objective achieved by EPA self-performed sampling. Atlantic Richfield collected data to meet the DQO within Atlantic Richfield owned claims in the Mine Study Area. Collected sediment within visual depositional areas in drainages to meet DQO. |
| Determine the nature and extent of contamination within the Blacktail Creek upgradient of the Butte Priority Soils Operable Unit (BPSOU). | This DQO is not applicable to data summarized in this DSR. EPA performed assessment of data quality for their data collected to meet this DQO |
| Determine the nature and extent of contaminated storm water discharge to Silver Bow and Blacktail creeks in areas upgradient of BPSOU. | This DQO is not applicable to data summarized in this DSR. EPA performed assessment of data quality for their data collected to meet this DQO |

3.6 Data Management and Transfer

All field analytical data, laboratory reports, chain of custody records, logbook scans, photographs, and data validation records collected according to the QAPP are included in this report and its appendices and are provided to Agencies in data validation reports. Data were transferred before this DSR was completed as requested by Agencies. Much of the previously shared data were in preliminary or draft format and any data contained in this DSR shall supersede any previously shared data.

Data contained within this DSR were collected in conjunction with the RI sampling effort performed by EPA on most of the investigation area. Ultimately, data contained herein will be consolidated with that collected by CDM Smith and managed and merged with EPA's database (SCRIBE.net as defined in the WSSOU UAO). As such, and as agreed upon during the monthly WSSOU UAO progress meeting held virtually January 27, 2022, submittal of this DSR and all data contained herein shall satisfy the requirements set forth under the WSSOU UAO for transmittal and delivery of data by Atlantic Richfield and their contractors.

4.0 DEVIATIONS

Deviations to the QAPP are summarized below.

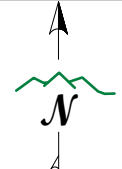
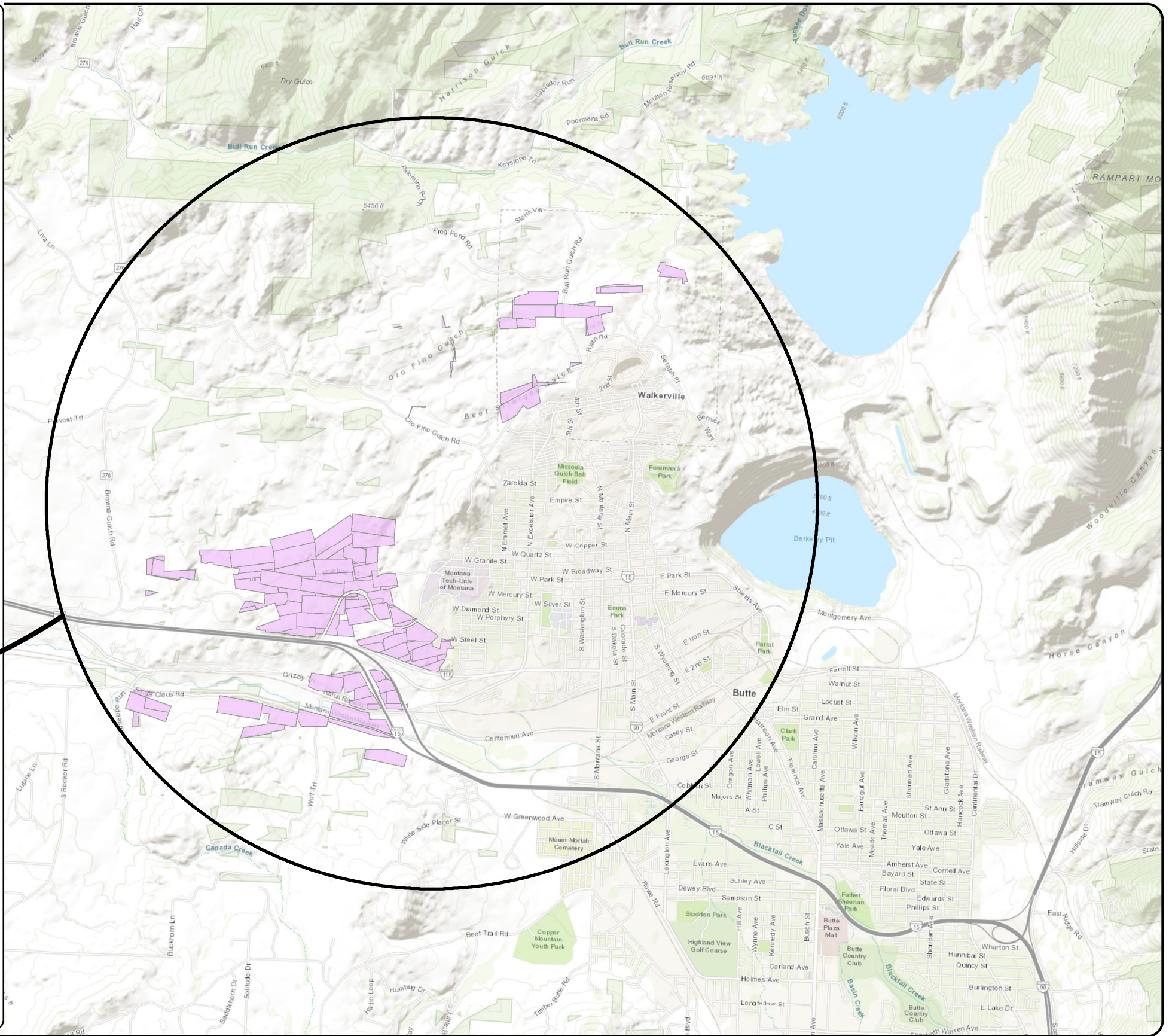
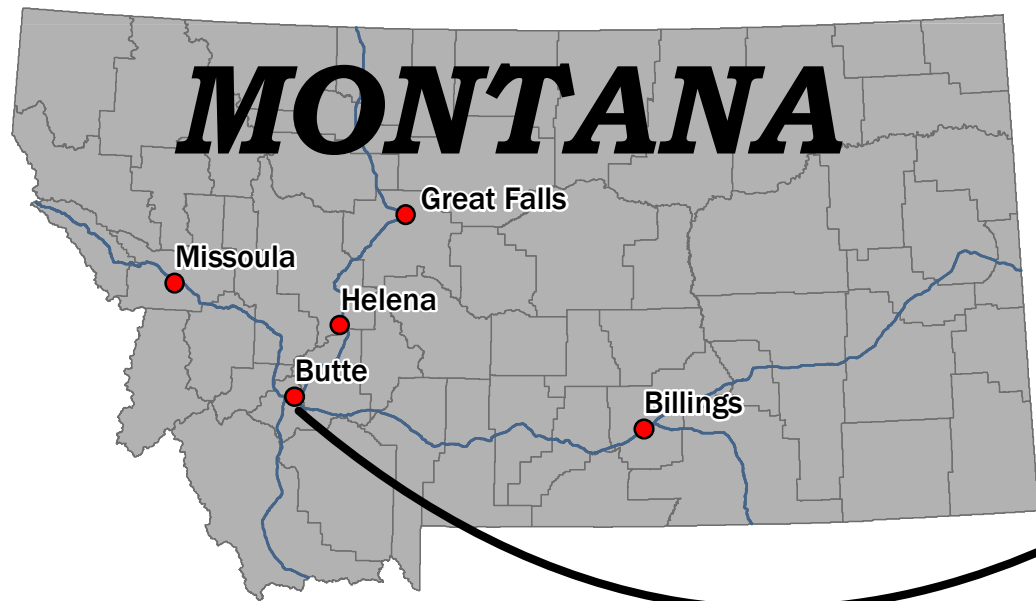
| Deviation | Affect DQOs |
|---|--|
| Subsurface FPXRF samples were not sieved. | Results in qualified Screening quality data but is still usable data. Additionally, those samples are paired with laboratory total metals analysis so essentially there was no data gap or loss in quality of data available for decision making purposes. |
| Silicon Dioxide Standard (Blank) and CCS for FPXRF were not closed out on multiple days of analysis. | Qualified data as described in the DVR. |
| ABA analysis for archived core was completed by method EPA600/2-78-054 instead of Modified Sobek as identified in the QAPP. | EPA600/2-78-054 is known to have a great potential to overestimate the neutralization potential (NP) of a material, which affects the Acid Potential (AP)/NP ratio. This data set may not be as accurate as one generated from the Modified Sobek method. However, the data are still valuable for screening purposes. |

5.0 REFERENCES

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- EPA, 2019b. Unilateral Administrative Order for Remedial Investigation Data Collection for the West Side Soils Operable Unit 13 of the Silver Bow Creek / Butte Area Superfund Site. U.S. Environmental Protection Agency. Available at <https://semspub.epa.gov/work/08/100006728.pdf>. The Remedial Investigation Statement of Work is included in this document as Appendix A.

FIGURES

- Figure 1. WSS OU DSR Site Location Map
- Figure 2. WSS OU DSR Figure Layout
- Figure 3. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 4. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 5. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 6. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 7. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 8. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 9. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 10. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 11. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 12. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 13. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 14. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 15. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 16. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 17. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 18. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 19. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 20. Draft WSSOU RI Sampling DSR Sample Locations
- Figure 21. Draft WSSOU RI Sampling DSR Sample Locations



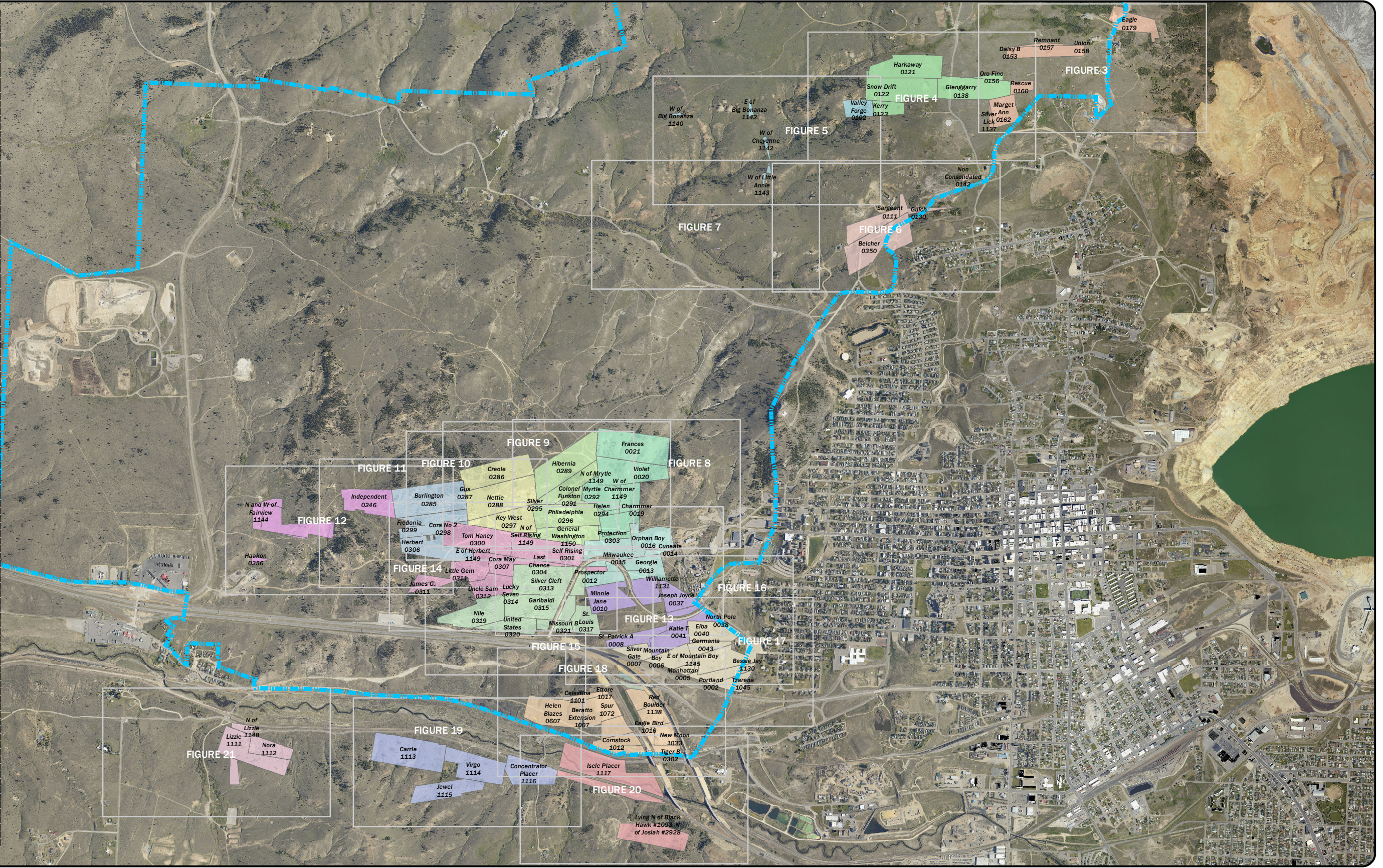
| | |
|------------------|--------------|
| DISPLAYED AS: | MSP |
| PROJECTION/ZONE: | NAD 83 |
| DATUM: | INT'L FT |
| UNITS: | PIONEER/ESRI |
| SOURCE: | |

FIGURE 1

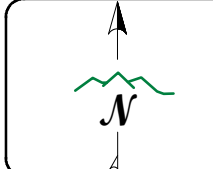
WSS OU DSR
SITE LOCATION
MAP

DATE: 5/11/2022

| Claim Name | CDM ID No | Figure |
|------------------------------------|-----------|--------|
| Eagle | 0179 | 3 |
| Union | 0158 | 3 |
| Remnant | 0157 | 3 |
| Daisy B | 0153 | 3 |
| Marget Ann | 0162 | 3 |
| Rescue | 0160 | 3 |
| Silver Lick | 1137 | 3 |
| Snow Drift | 0122 | 4 |
| Kerry | 0123 | 4 |
| Harkaway | 0121 | 4 |
| Oro Fino | 0156 | 4 |
| Glengarry | 0138 | 4 |
| Valley Forge | 0102 | 5 |
| Silver W. of Big Bonanza | 1140 | 5 |
| W. of Cheyenne | 1142 | 5 |
| Silver W of Little Annie | 1143 | 5 |
| E of Big Bonanza | 1142 | 5 |
| Sargeant | 0111 | 6 |
| Belcher | 0350 | 6 |
| Gulch | 0130 | 6 |
| Non Consolidated | 0142 | 6 |
| Silver near Houghton | 1143 | 7 |
| Charmmer | 0019 | 8 |
| Frances | 0021 | 8 |
| Violet | 0020 | 8 |
| Kit Carson | 0017 | 8 |
| Protection | 0303 | 8 |
| Convention | 0293 | 8 |
| Helen | 0294 | 8 |
| Myrtle | 0292 | 8 |
| West of Charmmer | 1149 | 8 |
| North of Myrtle | 1149 | 8 |
| Hibernia | 0289 | 9 |
| Horse Shoe | 0290 | 9 |
| Philadelphia | 0296 | 9 |
| General Washington | 1150 | 9 |
| Colonel Funston | 0291 | 9 |
| Creole | 0286 | 10 |
| Nettle | 0288 | 10 |
| Key West | 0297 | 10 |
| Silver | 0295 | 10 |
| Burlington | 0285 | 11 |
| Fredonia | 0299 | 11 |
| Herbert | 0306 | 11 |
| Gus | 0287 | 11 |
| Cora No 2 | 0298 | 11 |
| Independent | 0246 | 12 |
| Haakon | 0256 | 12 |
| North and West of Fairview | 1144 | 12 |
| Fair View | 0249 | 12 |
| Orphan Boy | 0016 | 13 |
| Milwaukee | 0015 | 13 |
| Georgie | 0013 | 13 |
| Cuneate | 0014 | 13 |
| Prospector | 0012 | 13 |
| Little Gem | 0311 | 14 |
| Uncle Sam | 0312 | 14 |
| Tom Haney | 0300 | 14 |
| Cora May | 0307 | 14 |
| Self Rising | 0301 | 14 |
| Last Chance B | 0304 | 14 |
| East of Herbert | 1149 | 14 |
| North of Self Rising | 1149 | 14 |
| James G. | 0310 | 14 |
| Nile | 0319 | 15 |
| St. Louis | 0317 | 15 |
| Missouri B | 0321 | 15 |
| United States | 0320 | 15 |
| Silver Cleft | 0313 | 15 |
| Garbald | 0315 | 15 |
| Lucky Seven | 0314 | 15 |
| St. Patrick A | 0008 | 16 |
| Katie T | 0041 | 16 |
| Minnie Jane | 0010 | 16 |
| North Pole | 0038 | 16 |
| Joseph Joyce | 0037 | 16 |
| Williamette | 1131 | 16 |
| Robert | 0004 | 17 |
| Silver Gate | 0007 | 17 |
| Germania | 0043 | 17 |
| Portland | 0002 | 17 |
| Humboldt | 0003 | 17 |
| Manhattan | 0005 | 17 |
| Mountain Boy | 0006 | 17 |
| Bessie Jay | 1130 | 17 |
| Tzarena | 1045 | 17 |
| Elba | 0040 | 17 |
| East of Mountain Boy | 1145 | 17 |
| ICB | 0042 | 17 |
| Helen Blazes | 0607 | 18 |
| Celestina | 1101 | 18 |
| Ettore | 1017 | 18 |
| Red Boulder | 1138 | 18 |
| Spur | 1072 | 18 |
| Eagle Bird | 1016 | 18 |
| Beratto Extension | 1007 | 18 |
| Tiger B | 0302 | 18 |
| New Moon | 1033 | 18 |
| Comstock | 1012 | 18 |
| Virgo | 1114 | 19 |
| Concentrator Placer | 1116 | 19 |
| Jewel | 1115 | 19 |
| Carrie | 1113 | 19 |
| Isele Placer | 1117 | 20 |
| Josiah | 1118 | 20 |
| Lying N of Black Hawk, N of Josiah | 20 | 20 |
| Lizzie | 1111 | 21 |
| North of Lizzie | 1148 | 21 |
| South of Lizzie | 1112 | 21 |
| Nora | 1112 | 21 |



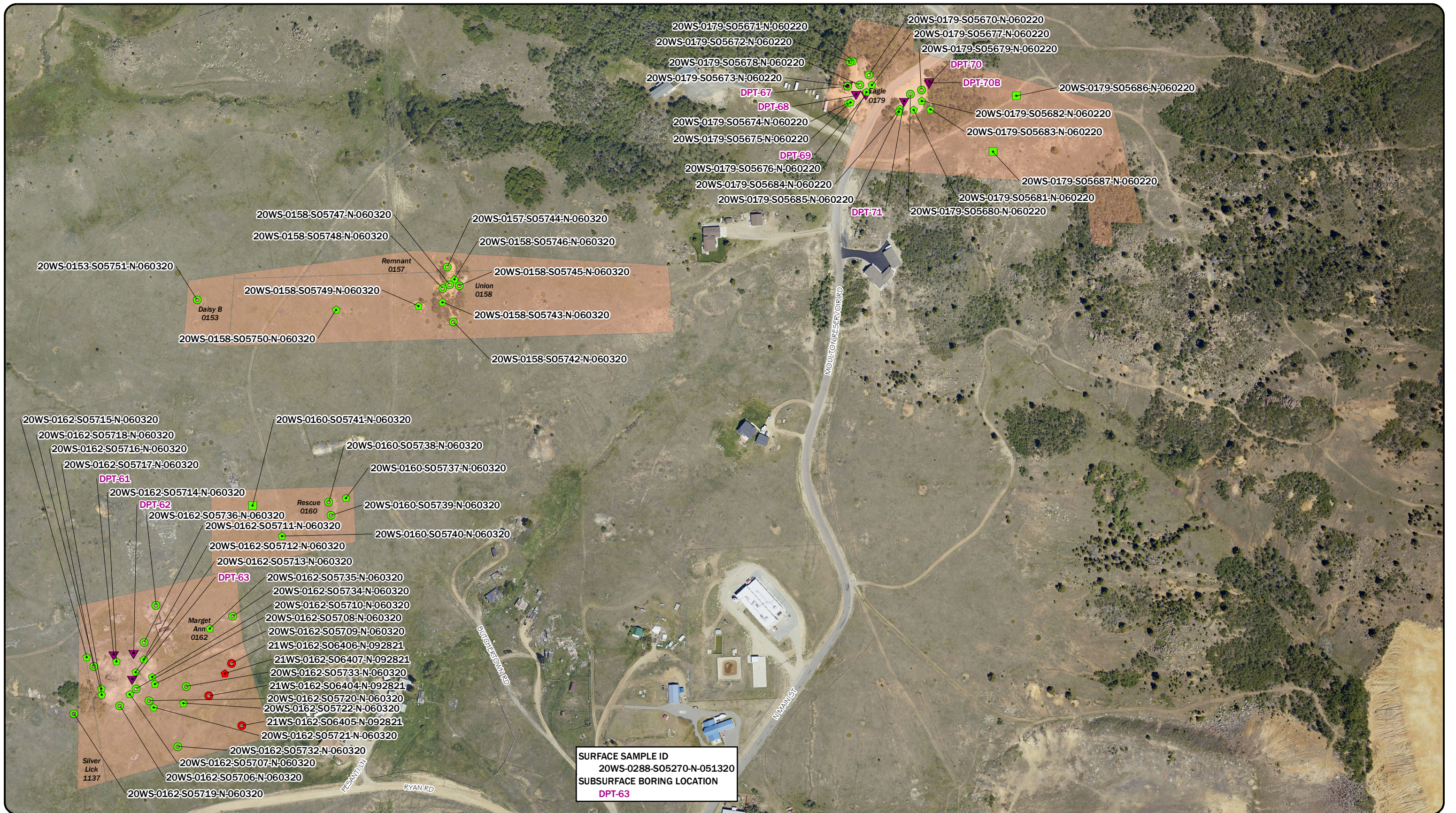
 WSS MINE STUDY AREA
 FIGURE 3
 FIGURE 7
 FIGURE 11
 FIGURE 15
 FIGURE 19
 FIGURE LAYOUT
 FIGURE 4
 FIGURE 8
 FIGURE 12
 FIGURE 16
 FIGURE 20
 FIGURE 5
 FIGURE 9
 FIGURE 13
 FIGURE 17
 FIGURE 21
 FIGURE 6
 FIGURE 10
 FIGURE 14
 FIGURE 18



DISPLAYED AS:
 PROJECTION/ZONE: MSP
 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020
 0 1,000 2,000 4,000
 Feet

FIGURE 2

 WSS OU
 DSR
 FIGURE LAYOUT
 DATE: 5/11/2022



| LEGEND | | | |
|--------|---------------------------------|--|--------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2020 SUBSURFACE SAMPLE LOCATION | | MINING CLAIMS (FIGURE 3) |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | |

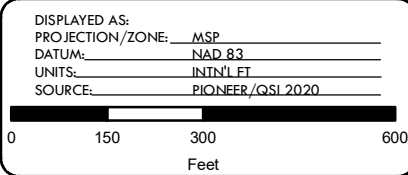
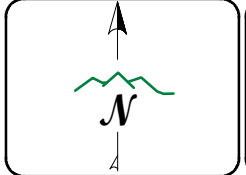
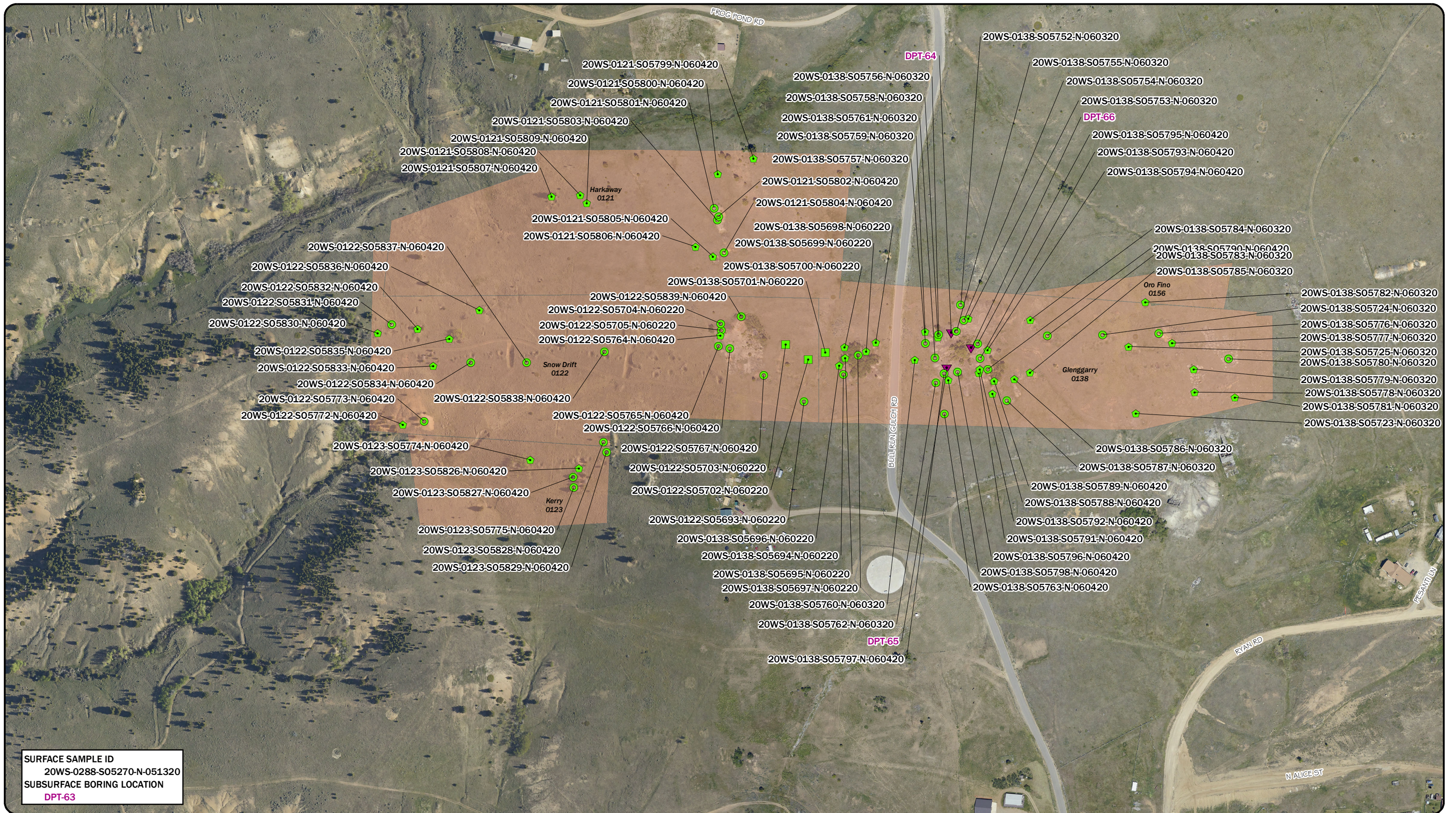


FIGURE 3

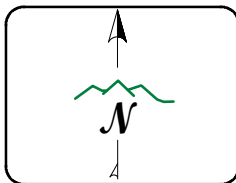
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 4/28/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

- LEGEND**
- 2019 COMPOSITE SAMPLE LOCATION
 - 2020 COMPOSITE SAMPLE LOCATION
 - 2021 COMPOSITE SAMPLE LOCATION
 - ☆ 2019 GRAB SAMPLE LOCATION
 - ☆ 2020 GRAB SAMPLE LOCATION
 - ☆ 2021 GRAB SAMPLE LOCATION
 - 2019 OBSERVED PHYSICAL FEATURE
 - 2020 OBSERVED PHYSICAL FEATURE
 - 2021 OBSERVED PHYSICAL FEATURE
 - ▼ 2020 SUBSURFACE SAMPLE LOCATION
 - MINING CLAIMS (FIGURE 4)



DISPLAYED AS:
 PROJECTION/ZONE: MSP
 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 4

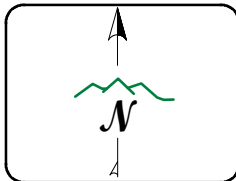
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 6/20/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | |
|--------|--------------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 SUBSURFACE SAMPLE LOCATION |
| | 2020 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 5) |
| | 2021 OBSERVED PHYSICAL FEATURE | | |

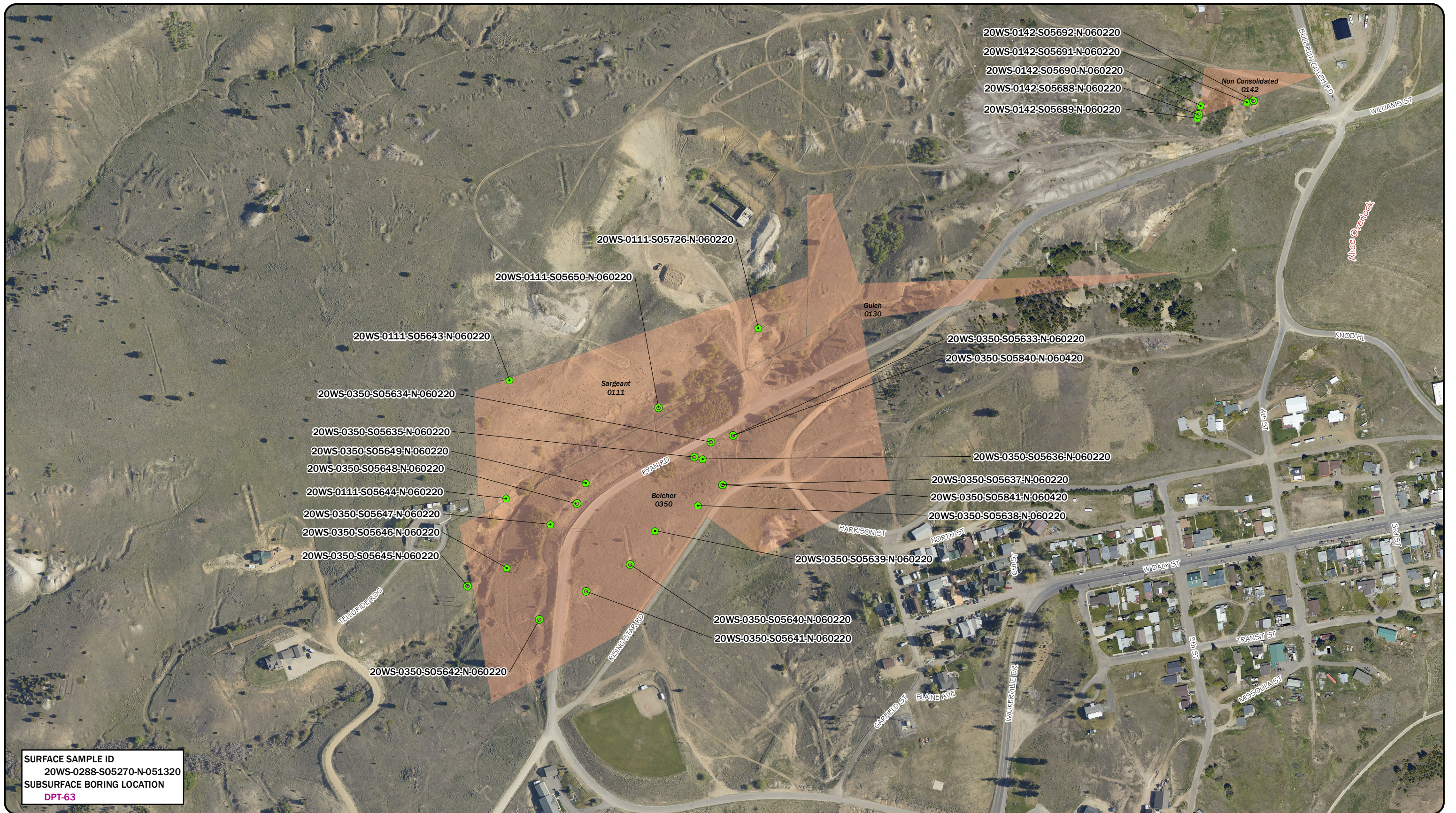


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FIGURE 5

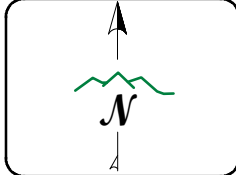
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DATE: 5/5/2022



LEGEND

| | | | | | | | |
|--|--------------------------------|--|---------------------------|--|--------------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION | | 2019 OBSERVED PHYSICAL FEATURE | | 2020 SUBSURFACE SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION | | 2020 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 6) |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION | | 2021 OBSERVED PHYSICAL FEATURE | | |



DISPLAYED AS:
 PROJECTION/ZONE: MSP
 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 6

DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/3/2022



SURFACE SAMPLE ID
20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
DPT-63

| LEGEND | | | |
|--------|--------------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 SUBSURFACE SAMPLE LOCATION |
| | 2020 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 7) |
| | 2021 OBSERVED PHYSICAL FEATURE | | |

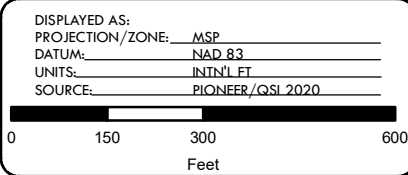
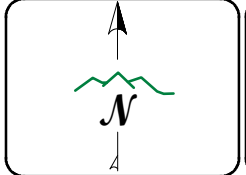
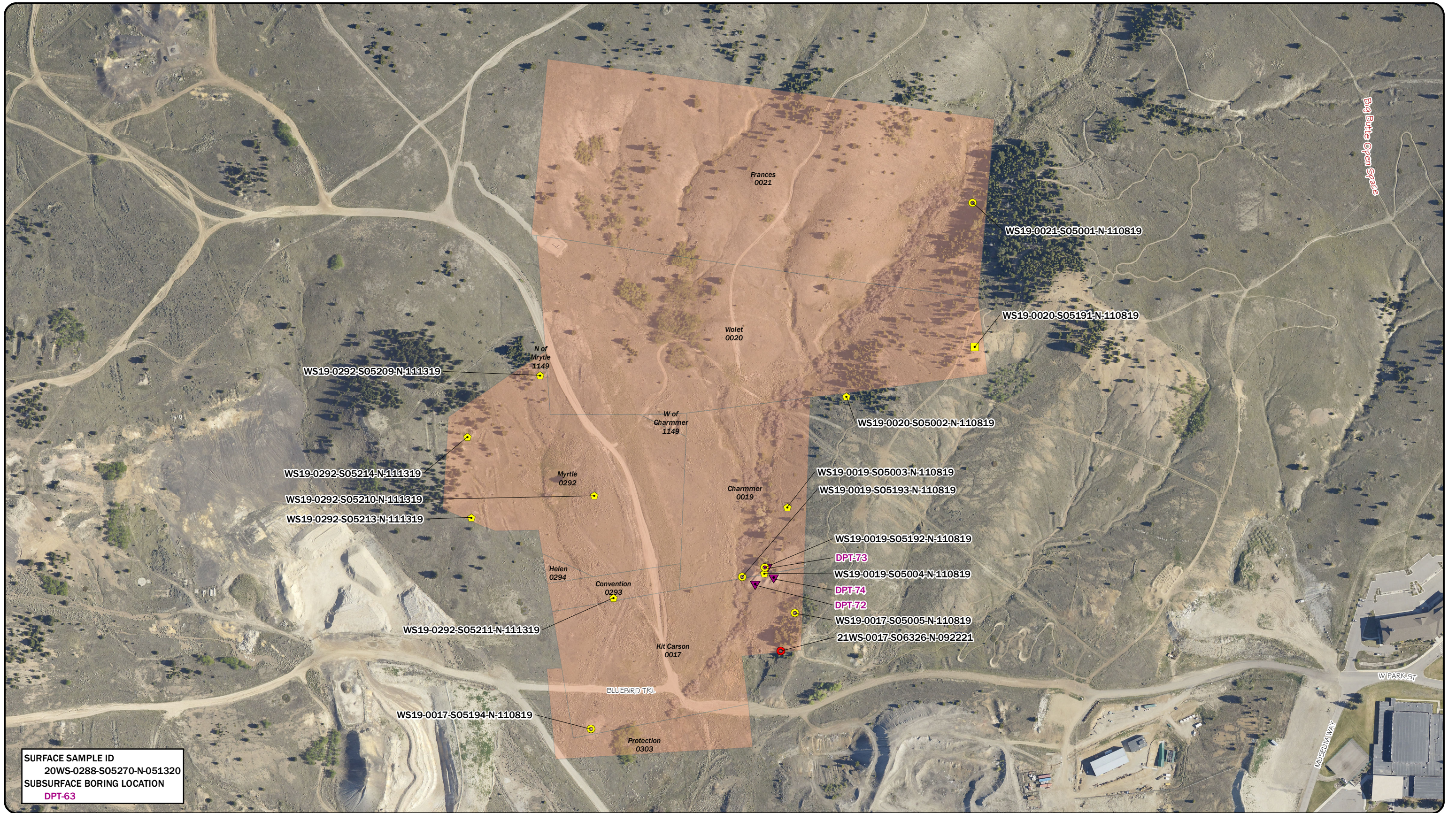


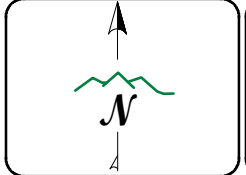
FIGURE 7

DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/3/2022



| LEGEND | | | |
|--------|---------------------------------|--|--------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2020 SUBSURFACE SAMPLE LOCATION | | MINING CLAIMS (FIGURE 8) |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | |

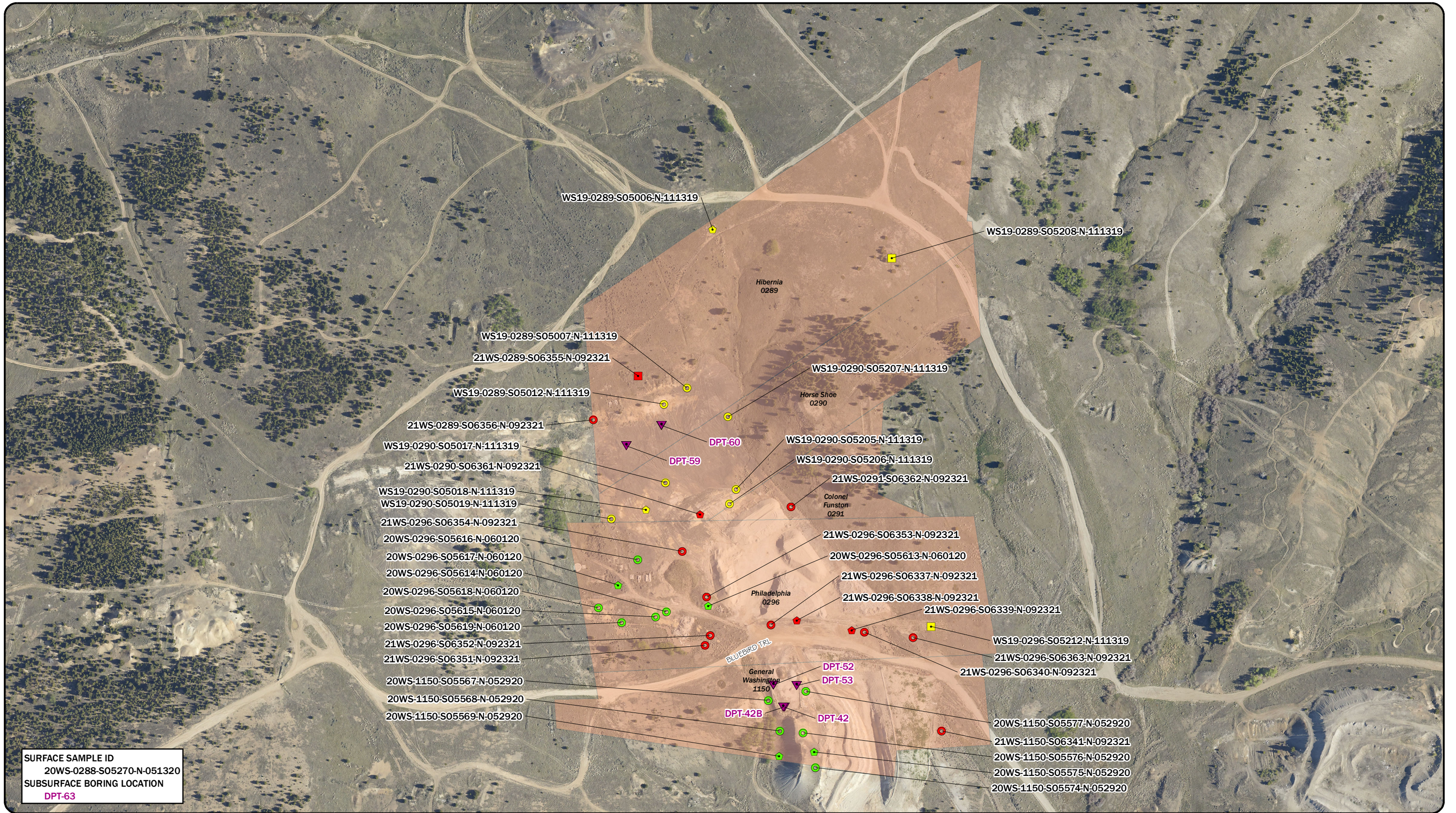


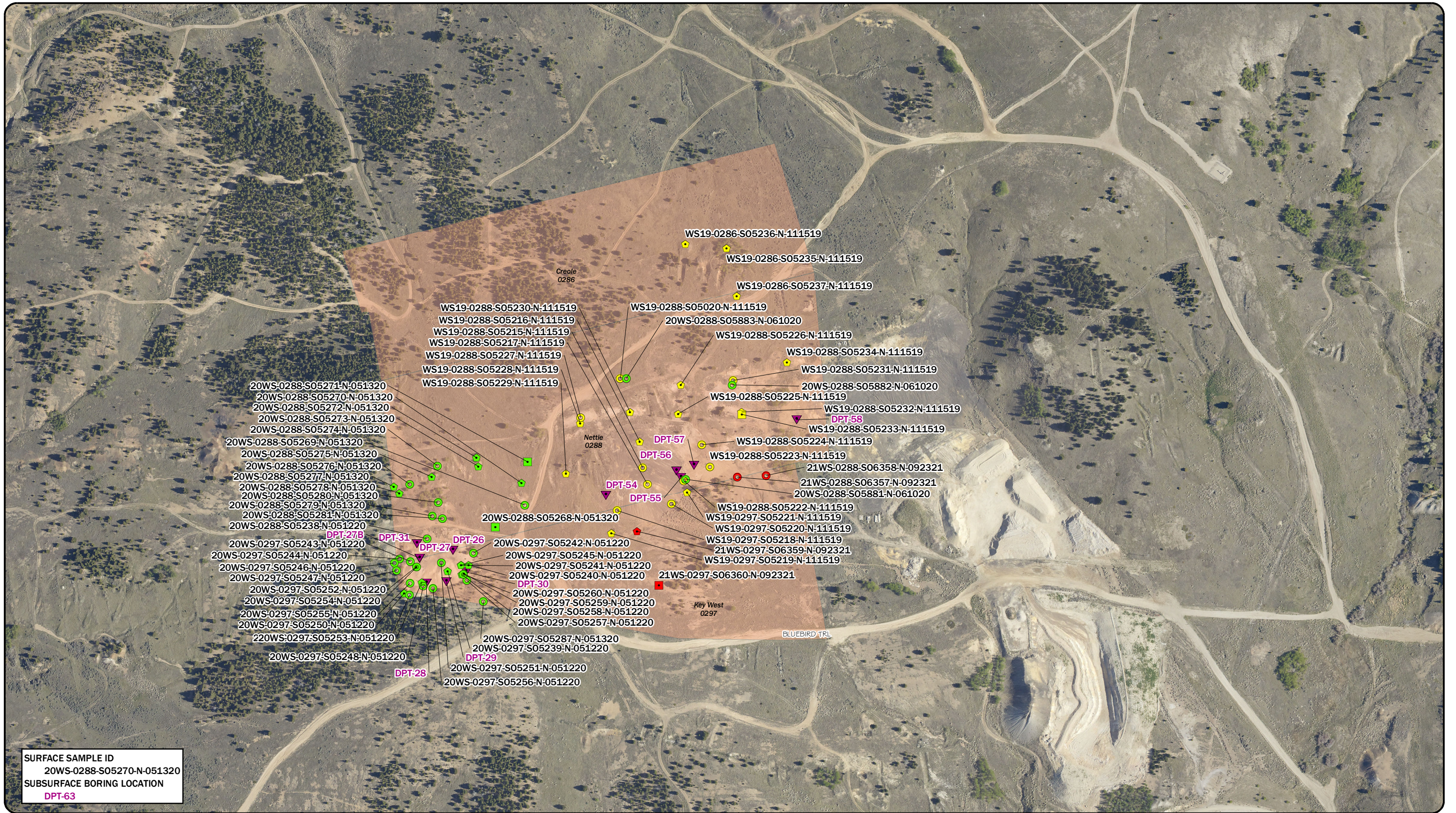
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 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 8

DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

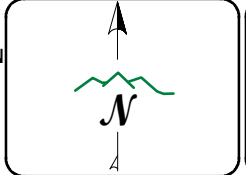
DATE: 5/3/2022





SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | | | |
|--------|--------------------------------|--|---------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION | | 2019 OBSERVED PHYSICAL FEATURE |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION | | 2021 OBSERVED PHYSICAL FEATURE |
| | | | | | 2020 SUBSURFACE SAMPLE LOCATION |
| | | | | | MINING CLAIMS (FIGURE 10) |

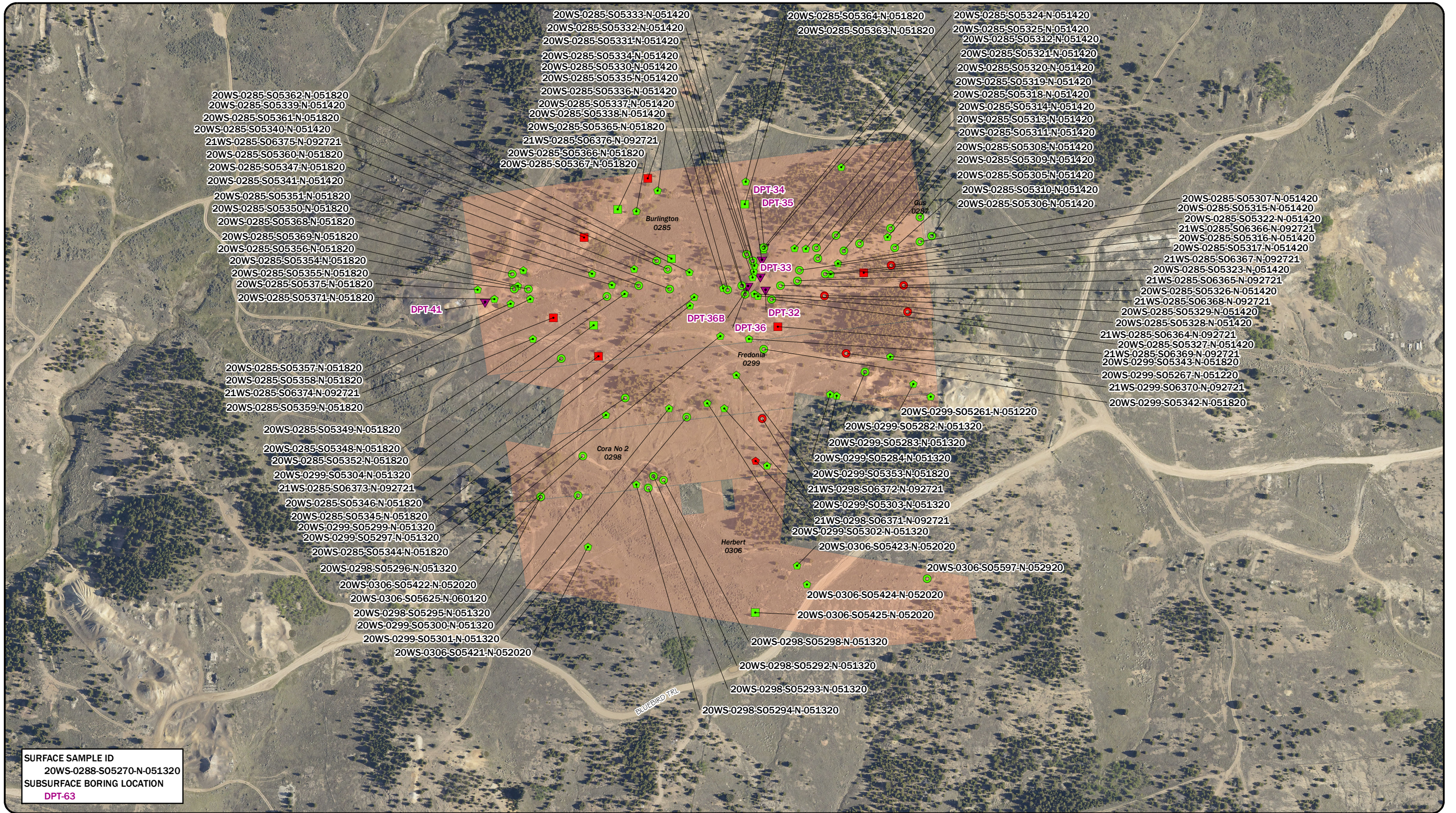


DISPLAYED AS:
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 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 10

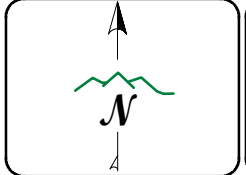
**DRAFT WSSOU RI
 SAMPLING DSR
 SAMPLE LOCATIONS**

DATE: 5/2/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | |
|--------|--------------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | 2020 SUBSURFACE SAMPLE LOCATION |
| | MINING CLAIMS (FIGURE 11) | | |

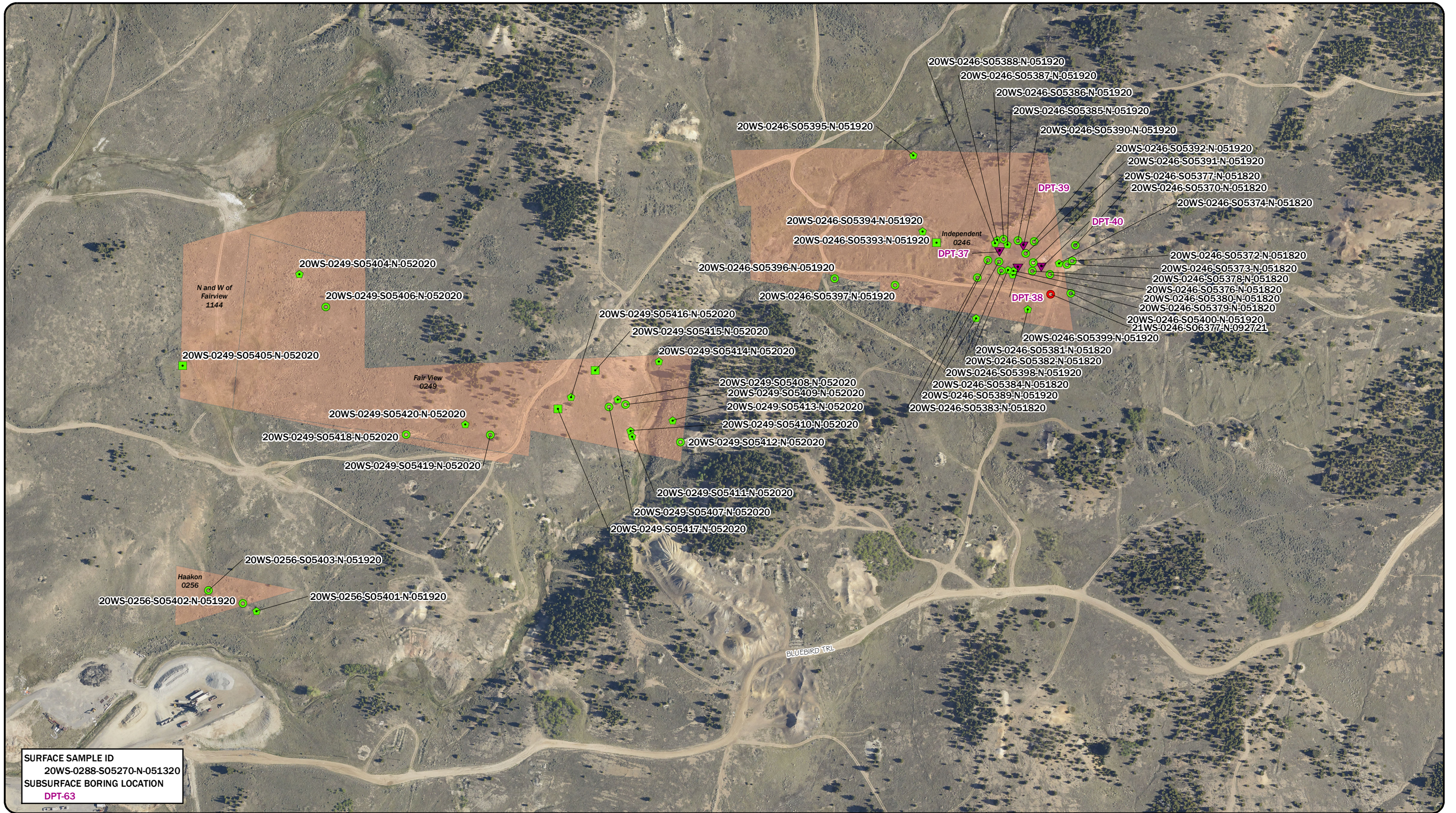


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 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 11

DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/16/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | |
|--------|--------------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | 2020 SUBSURFACE SAMPLE LOCATION |
| | MINING CLAIMS (FIGURE 12) | | |

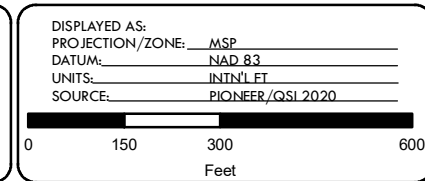
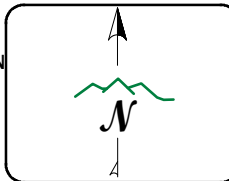
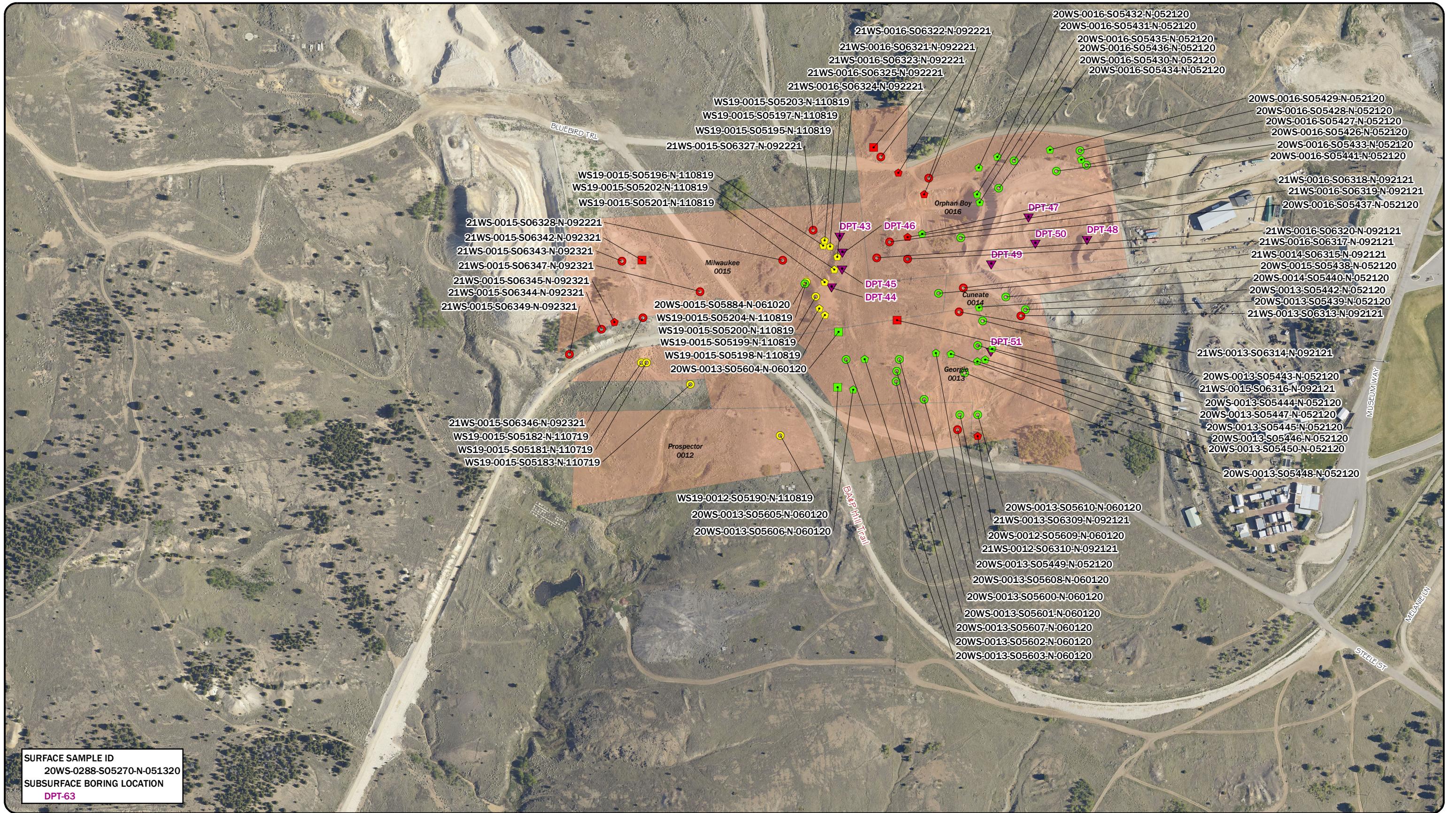


FIGURE 12

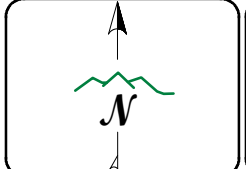
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/3/2022



SURFACE SAMPLE ID
20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
DPT-63

| LEGEND | | | |
|--------|--------------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | 2020 SUBSURFACE SAMPLE LOCATION |
| | MINING CLAIMS (FIGURE 13) | | |

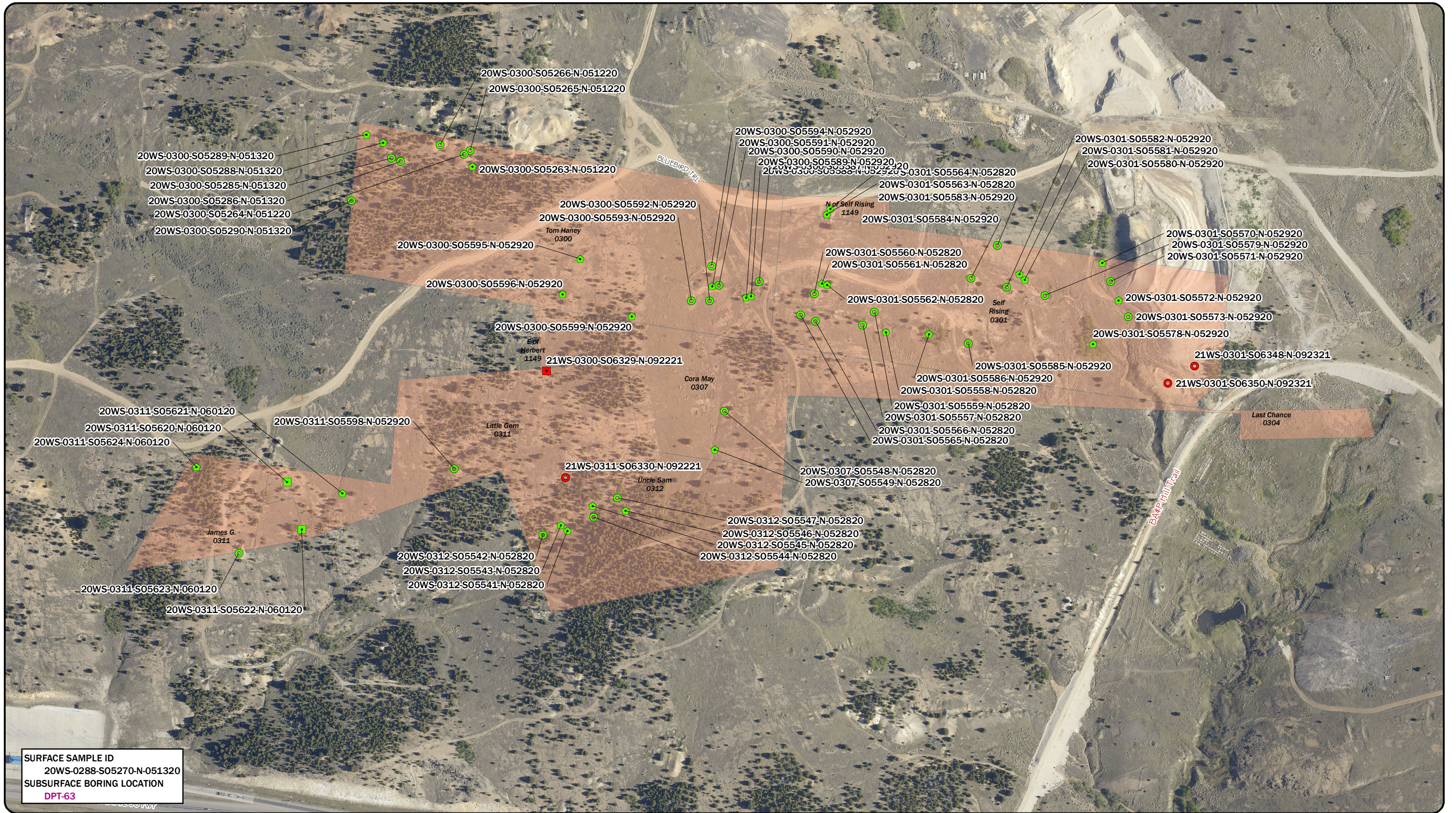


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DATUM: NAD 83
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SOURCE: PIONEER/QSI 2020

FIGURE 13

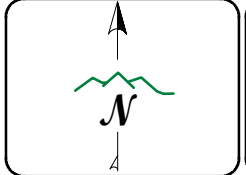
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/3/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | |
|--------|---------------------------------|--|--------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2020 SUBSURFACE SAMPLE LOCATION | | MINING CLAIMS (FIGURE 14) |
| | 2020 OBSERVED PHYSICAL FEATURE | | 2021 OBSERVED PHYSICAL FEATURE |

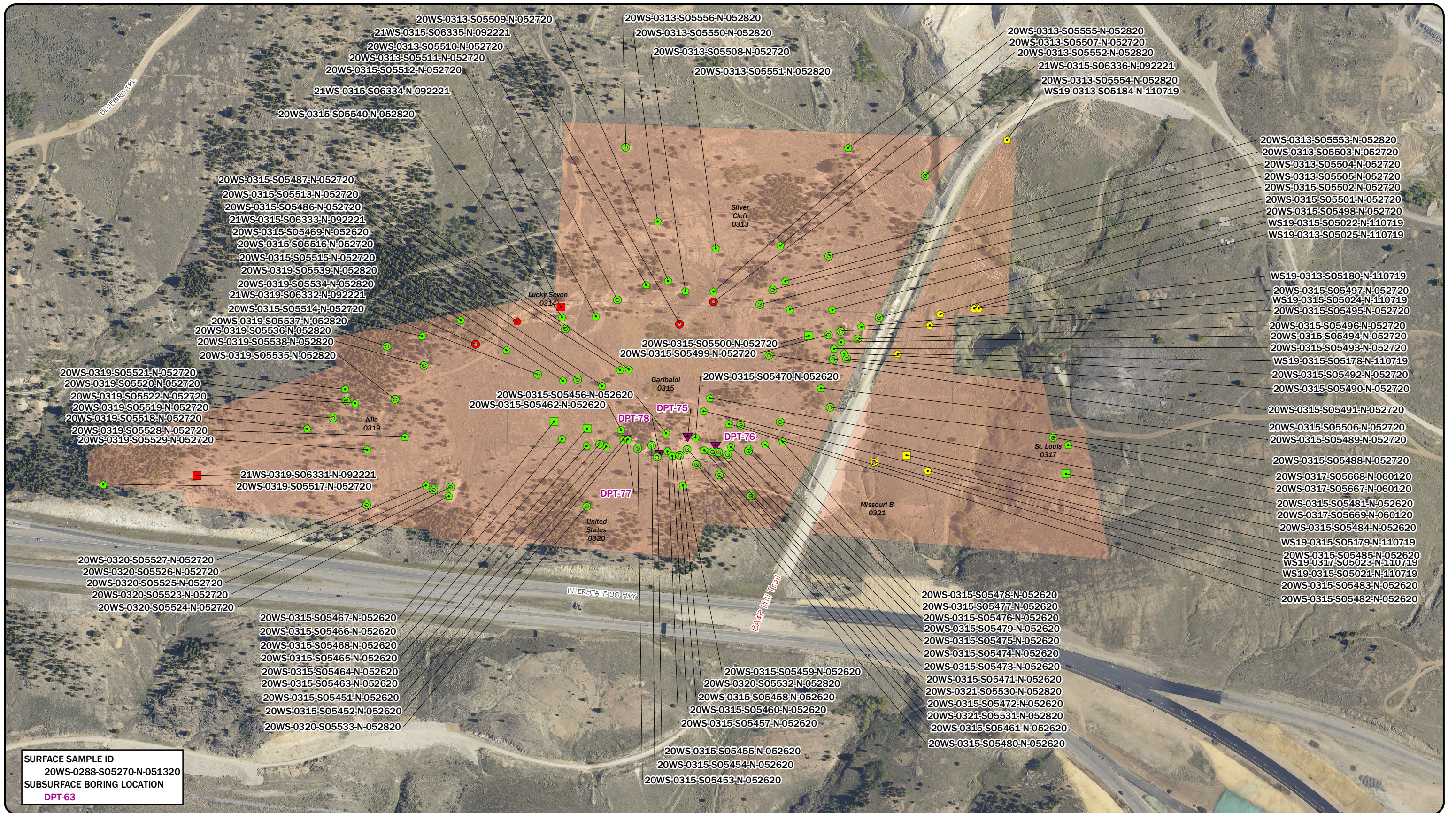


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 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 14

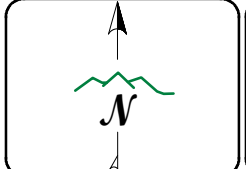
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/5/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | |
|--------|---------------------------------|--|--------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2020 SUBSURFACE SAMPLE LOCATION | | MINING CLAIMS (FIGURE 15) |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | |

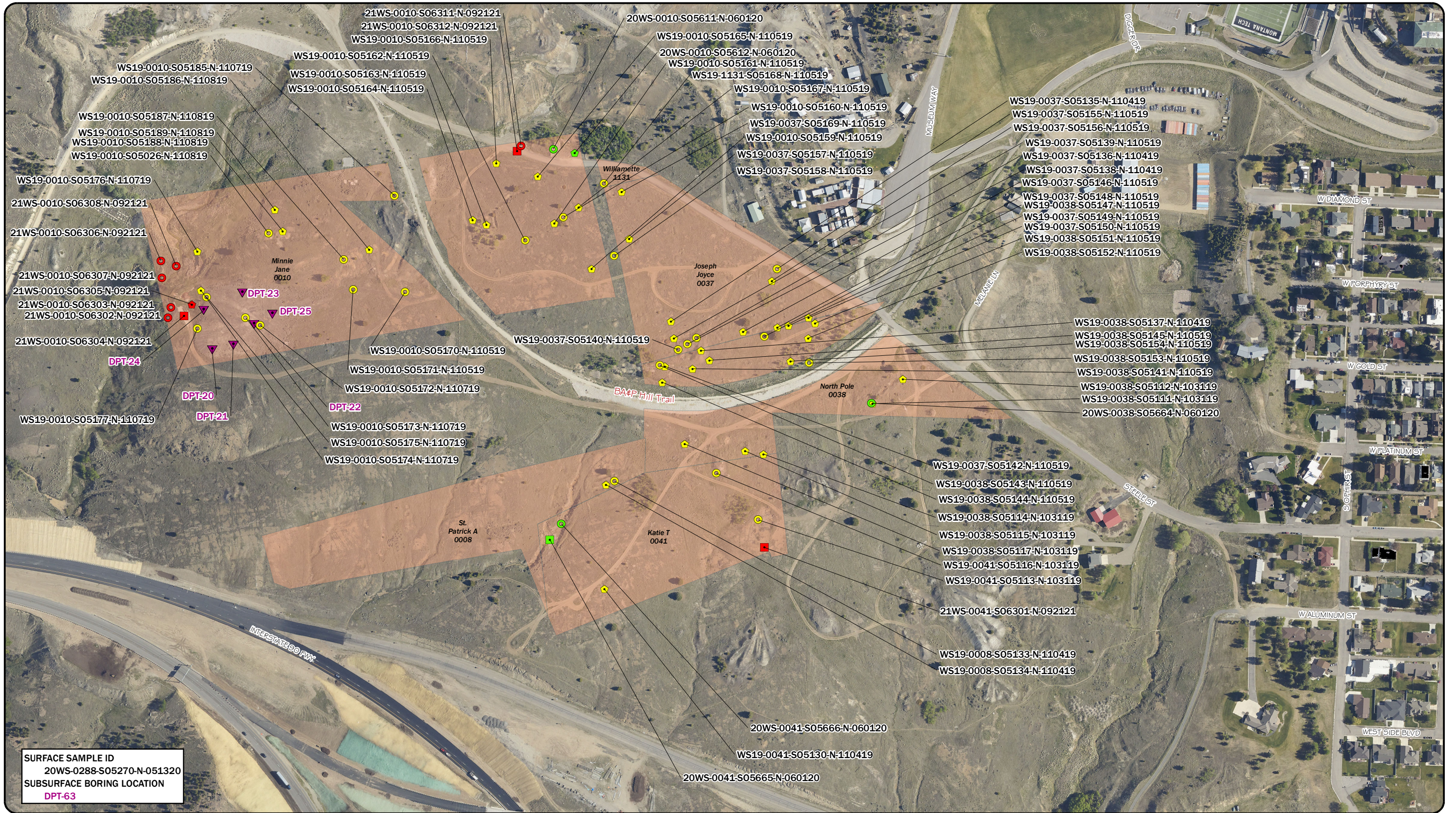


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 SOURCE: PIONEER/QSI 2020

FIGURE 15

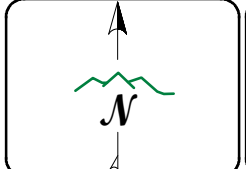
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/4/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
 SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | |
|--------|--------------------------------|--|--------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 16) |

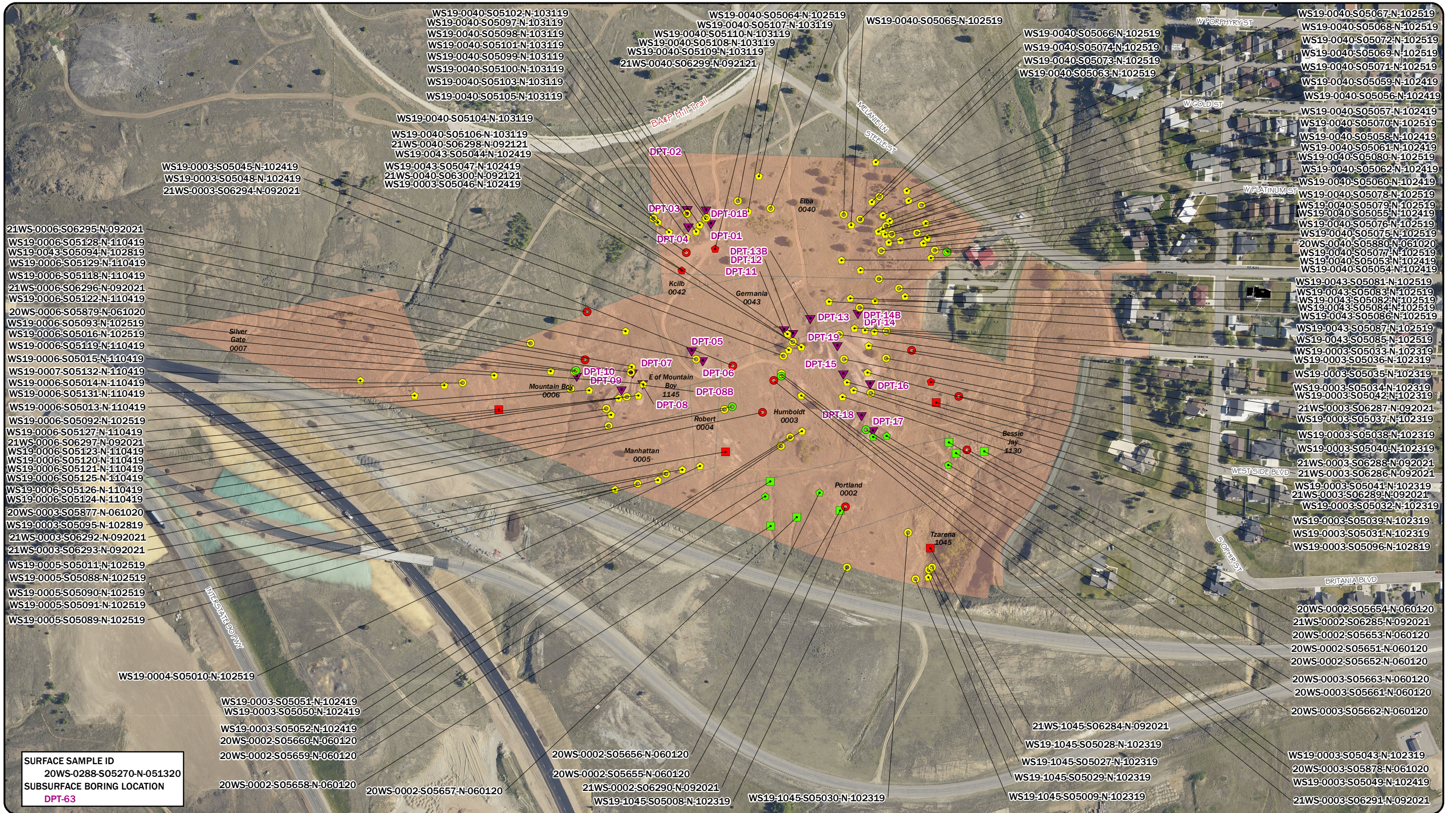


DISPLAYED AS:
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 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 16

DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/3/2022



LEGEND

| | | | | | | | |
|--|--------------------------------|--|---------------------------|--|--------------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION | | 2019 OBSERVED PHYSICAL FEATURE | | 2020 SUBSURFACE SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION | | 2020 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 17) |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION | | 2021 OBSERVED PHYSICAL FEATURE | | |

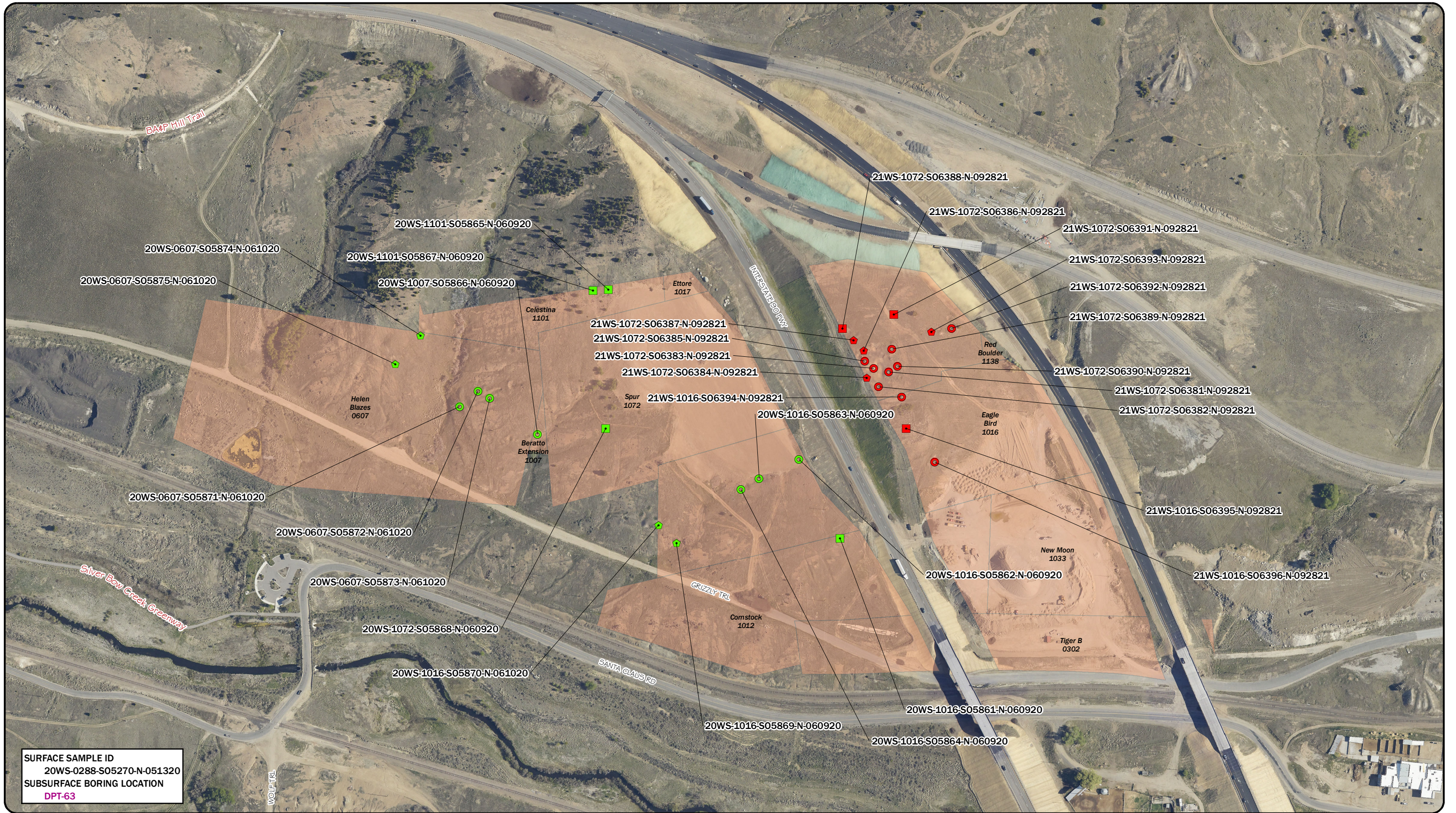
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 PROJECTION/ZONE: MSP
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 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

0 150 300 600
 Feet

FIGURE 17

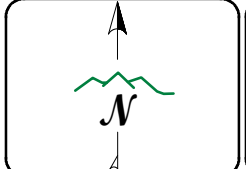
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/3/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | |
|--------|--------------------------------|--|--------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 18) |

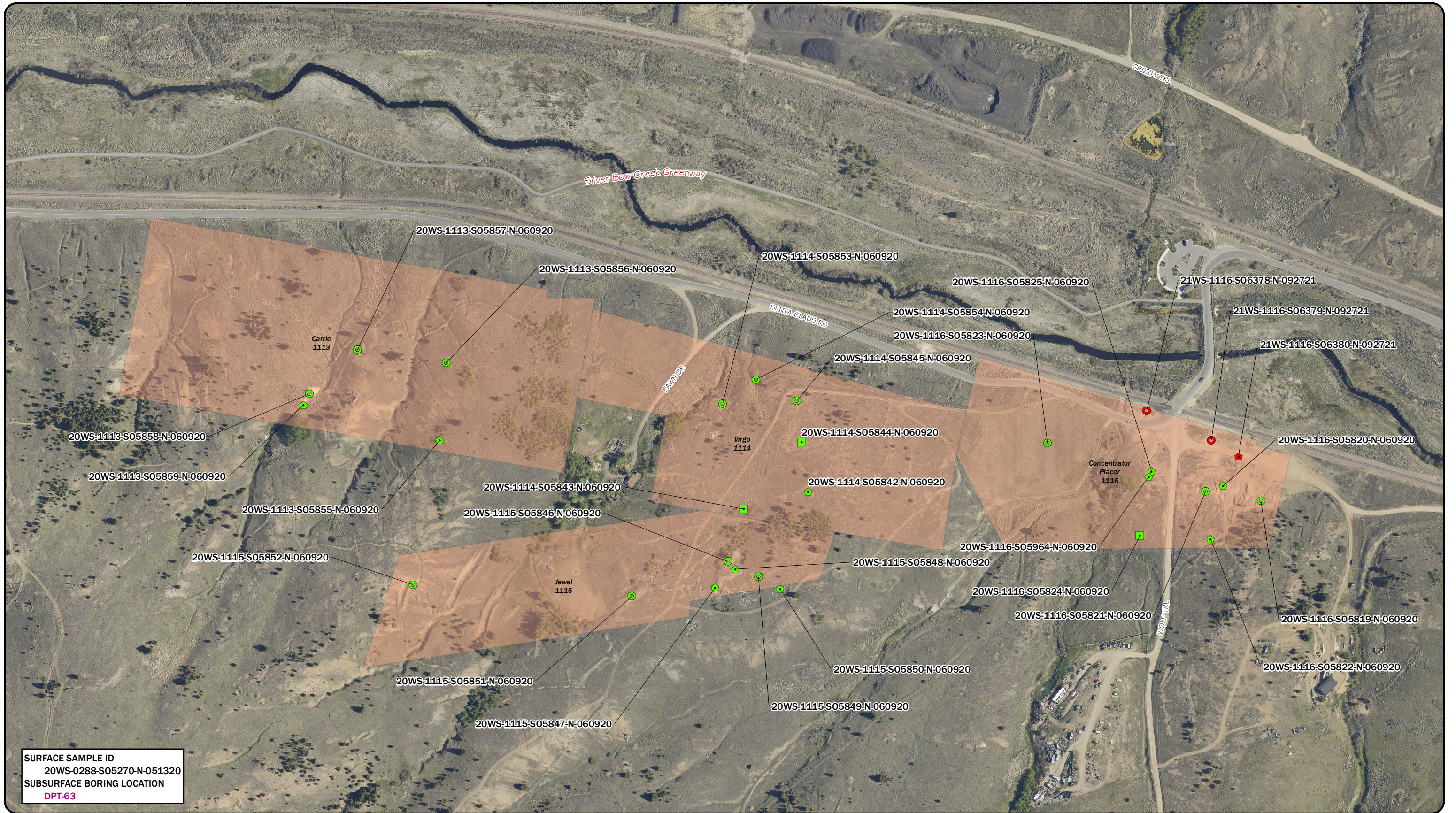


DISPLAYED AS:
 PROJECTION/ZONE: MSP
 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 18

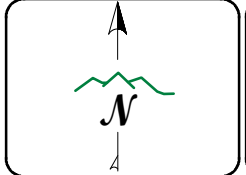
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/5/2022



LEGEND

| | | | | | | | |
|--|--------------------------------|--|---------------------------|--|--------------------------------|--|---------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION | | 2019 OBSERVED PHYSICAL FEATURE | | 2020 SUBSURFACE SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION | | 2020 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 19) |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION | | 2021 OBSERVED PHYSICAL FEATURE | | |

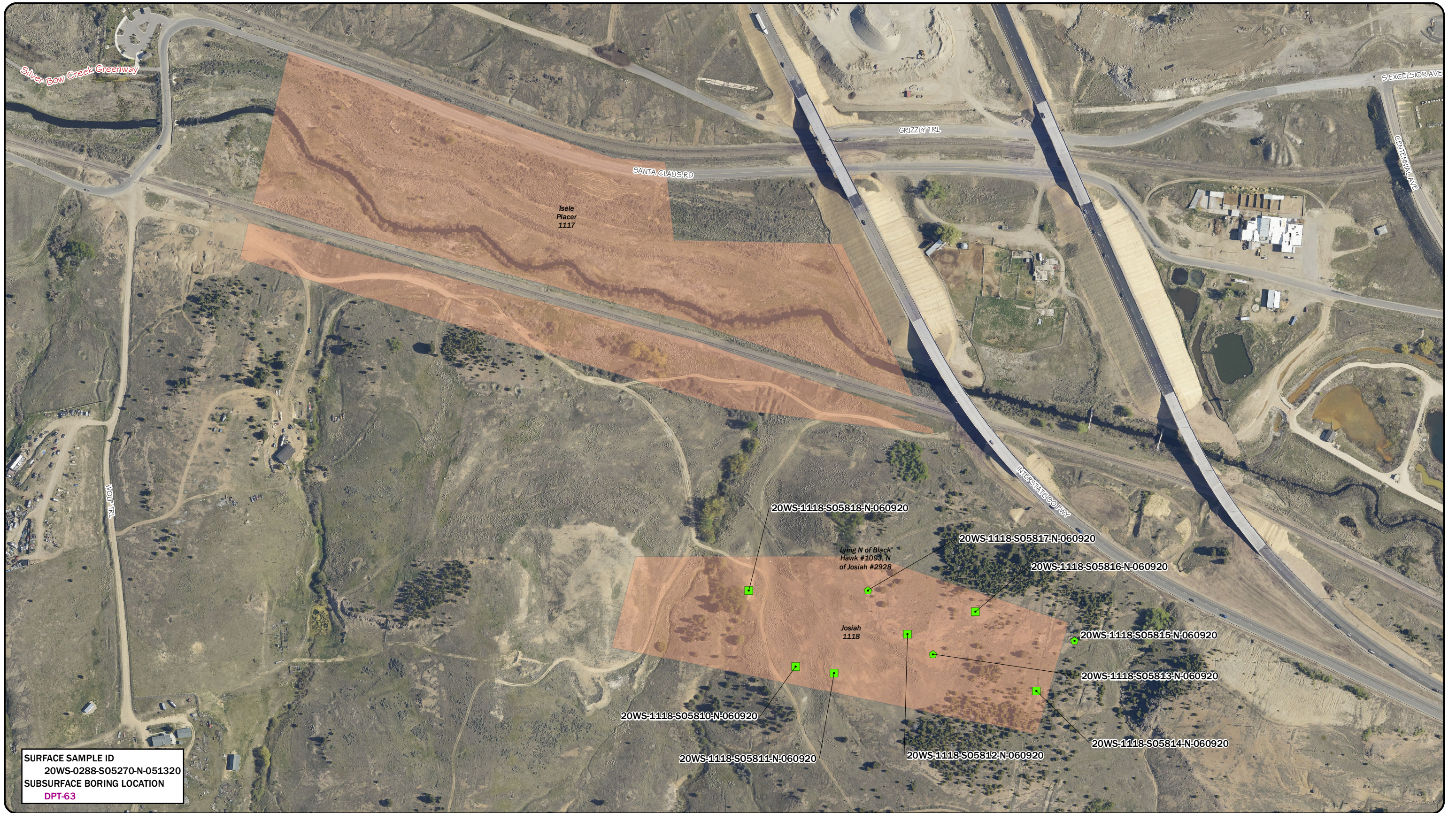


DISPLAYED AS:
 PROJECTION/ZONE: MSP
 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 19

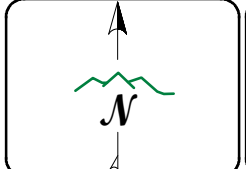
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/2/2022



SURFACE SAMPLE ID
20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
DPT-63

| LEGEND | | | |
|--------|---------------------------------|--|--------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 20) |
| | 2020 SUBSURFACE SAMPLE LOCATION | | |



DISPLAYED AS:
PROJECTION/ZONE: MSP
DATUM: NAD 83
UNITS: INT'L FT
SOURCE: PIONEER/QSI 2020

FIGURE 20

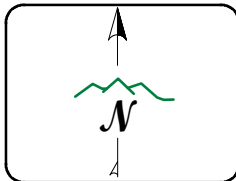
DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/2/2022



SURFACE SAMPLE ID
 20WS-0288-S05270-N-051320
SUBSURFACE BORING LOCATION
 DPT-63

| LEGEND | | | |
|--------|---------------------------------|--|--------------------------------|
| | 2019 COMPOSITE SAMPLE LOCATION | | 2019 GRAB SAMPLE LOCATION |
| | 2020 COMPOSITE SAMPLE LOCATION | | 2020 GRAB SAMPLE LOCATION |
| | 2021 COMPOSITE SAMPLE LOCATION | | 2021 GRAB SAMPLE LOCATION |
| | 2019 OBSERVED PHYSICAL FEATURE | | 2020 OBSERVED PHYSICAL FEATURE |
| | 2021 OBSERVED PHYSICAL FEATURE | | MINING CLAIMS (FIGURE 21) |
| | 2020 SUBSURFACE SAMPLE LOCATION | | |



DISPLAYED AS:
 PROJECTION/ZONE: MSP
 DATUM: NAD 83
 UNITS: INT'L FT
 SOURCE: PIONEER/QSI 2020

FIGURE 21

DRAFT WSSOU RI SAMPLING DSR SAMPLE LOCATIONS

DATE: 5/16/2022

TABLES

Table 1. Atlantic Richfield Company Mining Claim Summary

Table 2. Surface Soils Sample Collection Summary

Table 3. Subsurface Soils Sample Collection Summary

Table 1: Atlantic Richfield Owned Mining Claims Summary

| Claim Name | CDM Claim Number | Whole/Partially Owned (W/P) | Primary/Secondary Claim (P/S) | Comments | Sites Visited (Surface sites Visited) | DPT Boreholes |
|---------------------|------------------|-----------------------------|-------------------------------|--|---------------------------------------|---------------|
| Belcher | 350 | W | P | | 17 | |
| Beratto Extension | 1007 | P | See Comments | Included with Helen Blazes | 1 | |
| Bland | 188 | W | See Comments | Parcel is entirely within Butte Mine Flood Operable Unit (BMFOU) and is addressed under BMFOU remedies . | | |
| Burlington | 285 | W | P | | 74 | 6 |
| Carrie | 1113 | W | S | | 5 | |
| Celestina | 1101 | W | S | | 2 | |
| Charmmer | 19 | P | S | | 4 | 1 |
| Concentrator Placer | 1116 | P | S | | 11 | |
| Colonel Funston | 291 | W | S | | 1 | |
| Comstock | 1012 | P | S | | | |
| Con. Virginia | 1103 | W | See Comments | Included with Myrtle | | |
| Convention | 293 | W | See Comments | Included with Myrtle | | |
| Cora May | 307 | W | S | | 2 | |
| Cora No. 2 | 298 | W | P | | 10 | |
| Creole | 286 | W | S | | 3 | |
| Cuneate | 14 | W | P | | 2 | |
| Daisy B | 153 | W | S | | 1 | |
| E of Big Bonanza | 1142 | W | S | | 1 | |
| W. of Cheyenne | 1142 | W | S | | 1 | |
| Eagle | 179 | P | P | | 18 | 5 |
| Eagle Bird | 1016 | P | S | Portion of claim west of Interstate 90 covered with construction spoils | 9 | |
| Elba | 40 | W | P | | 46 | 4 |
| Ettore | 1017 | P | S | | | |
| Excelsior B | 167 | W | S | | | |
| Fair View | 249 | P | S | | 17 | |
| Frances | 21 | W | S | | 1 | |
| Fredonia | 299 | W | P | | 16 | |
| Garibaldi | 315 | W | P | | 68 | 4 |
| General Washington | 1150 | W | P | | 8 | 3 |

Table 1: Atlantic Richfield Owned Mining Claims Summary

| Claim Name | CDM Claim Number | Whole/Partially Owned (W/P) | Primary/Secondary Claim (P/S) | Comments | Sites Visited (Surface sites Visited) | DPT Boreholes |
|-----------------------|------------------|-----------------------------|-------------------------------|--|---------------------------------------|---------------|
| Georgie | 13 | W | P | | 23 | 1 |
| Germania | 43 | P | P | | 10 | 6 |
| Glengarry | 138 | W | P | | 46 | 3 |
| Gulch | 130 | P | S | | 5 | |
| Gus | 287 | W | See Comments | Included with Burlington | | |
| Haakon | 256 | P | S | | 3 | |
| Harkaway | 121 | W | S | | 11 | |
| Helen | 294 | W | See Comments | Included with Myrtle | | |
| Helen Blazes | 607 | P | S | | 5 | |
| Herbert | 306 | W | S | | 7 | |
| Hibernia | 289 | P | P | | 6 | 2 |
| Horse Shoe | 290 | W | P | | 7 | |
| Humboldt | 3 | W | P | | 36 | 5 |
| Independent | 246 | W | P | | 30 | 4 |
| Isele Placer | 1117 | W | See Comments | This parcel is entirely within Reach A of Stream Side Tailings Operable Unit (SSTOU). | | |
| J.H.C. No. 2 Fraction | 199 | W | See Comments | Parcel is entirely within Butte Mine Flood Operable Unit (BMFOU) and is addressed under BMFOU remedies . | | |
| James G. | 310 | P | S | | | |
| Jewel | 1115 | W | P | | 7 | |
| Joseph Joyce | 37 | P | P | | 15 | |
| Josiah | 1118 | W | S | | 9 | |
| Kcilb | 42 | W | See Comments | Included with Elba | | |
| Katie T | 41 | W | S | | 6 | |
| Katy Morris | 1106 | P | See Comments | Included with Spur | | |
| Kerry | 123 | P | S | | 6 | |
| Key West | 297 | W | P | | 29 | 5 |
| Kit Carson | 17 | P | P | | 3 | 2 |
| Last Chance B | 304 | W | S | | | |
| Little Gem | 311 | P | S | | 7 | |
| Lizzie | 1111 | W | S | | 7 | |
| Lucky Seven | 314 | W | See Comments | Included with Garibaldi | | |
| Manhattan | 5 | P | S | | 5 | |
| Marget Ann | 162 | P | P | | 26 | 3 |
| Milwaukee | 15 | W | P | | 25 | 4 |

Table 1: Atlantic Richfield Owned Mining Claims Summary

| Claim Name | CDM Claim Number | Whole/Partially Owned (W/P) | Primary/Secondary Claim (P/S) | Comments | Sites Visited (Surface sites Visited) | DPT Boreholes |
|------------------|------------------|-----------------------------|-------------------------------|--|---------------------------------------|---------------|
| Minnie Irvine | 398 | W | See Comments | Parcel is entirely within Butte Priority Soils Operable Unit (BPSOU) and will be addressed under BPSOU remedies. | | |
| Minnie Jane | 10 | P | P | | 34 | 6 |
| Missouri B | 321 | W | S | | 2 | |
| Mountain Boy | 6 | P | P | | 23 | 4 |
| Myrtle | 292 | W | S | | 5 | |
| Nettie | 288 | W | P | | 37 | 6 |
| New Moon | 1033 | P | S | Entire parcel has been disturbed and covered with interstate construction activity. | | |
| Nile | 319 | P | S | | 16 | |
| Non Consolidated | 142 | W | S | | 5 | |
| Nora | 1112 | P | S | | 1 | |
| North Pole | 38 | P | P | | 16 | |
| Oro Fino | 156 | W | S | | | |
| Orphan Boy | 16 | P | P | | 22 | 4 |
| Philadelphia | 296 | W | P | | 17 | |
| Plover No. 1 | 192 | W | See Comments | Parcel is entirely within Butte Priority Soils Operable Unit (BPSOU) and will be addressed under BPSOU remedies. | | |
| Portland | 2 | P | S | | 11 | |
| Prospector | 12 | W | P | | 3 | |
| Protection | 303 | W | S | | | |
| Remnant | 157 | W | S | | 1 | |
| Rescue | 160 | W | S | | 5 | |
| Robert | 4 | W | S | | 1 | |
| Sargeant | 111 | W | S | | 4 | |
| Saved | 1042 | P | See Comments | Included with Helen Blazes | | |
| Self Rising | 301 | W | S | | 25 | |
| Sliver | 295 | W | See Comments | Included with Nettie | | |
| Silver Cleft | 313 | W | S | | 18 | |
| Silver Gate | 7 | P | S | | 1 | |

Table 1: Atlantic Richfield Owned Mining Claims Summary

| Claim Name | CDM Claim Number | Whole/Partially Owned (W/P) | Primary/Secondary Claim (P/S) | Comments | Sites Visited (Surface sites Visited) | DPT Boreholes |
|--------------------------|------------------|-----------------------------|-------------------------------|----------|---------------------------------------|---------------|
| sliver near Houghton | 1143 | W | S | | 1 | |
| sliver W of Little Annie | 1143 | W | S | | 3 | |
| Snow Drift | 122 | P | P | | 21 | |
| Spur | 1072 | P | P | | 14 | |
| St. Louis | 317 | W | S | | 4 | |
| St. Patrick A | 8 | W | S | | 2 | |
| St. Patrick B. | 178 | W | S | | | |
| Tiger B | 302 | P | S | | | |
| Tom Haney | 300 | W | P | | 21 | |
| Tzarena | 1045 | P | S | | 7 | |
| Uncle Sam | 312 | W | S | | 7 | |
| Union | 158 | W | P | | 8 | |
| United States | 320 | P | S | | 7 | |
| Valley Forge | 102 | W | P | | 6 | |
| Violet | 20 | W | S | | 2 | |
| Sliver W. of Big Bonanza | 1140 | W | S | | 1 | |
| Williamette | 1131 | W | S | | 1 | |
| Virgo | 1114 | P | S | | 6 | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|------------|--------------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|------------------|--|
| 5001 | WS19-0021-SO5001-N-110819 | 11/8/2019 | 1245 | 0021 | Frances | 5.95 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5002 | WS19-0020-SO5002-N-110819 | 11/8/2019 | 1300 | 0020 | Violet | 8.32 | | | | | | | Grab | None | NR | | |
| 5003 | WS19-0019-SO5003-N-110819 | 11/8/2019 | 1325 | 0019 | Charmmer | 8.57 | | | | | | | Grab | Low | NR | | |
| 5004 | WS19-0019-SO5004-N-110819 | 11/8/2019 | 1345 | 0019 | Charmmer | 8.46 | | | | | | | Grab | Low | NR | | |
| 5005 | WS19-0017-SO5005-N-110819 | 11/8/2019 | 1410 | 0017 | Kit Carson | 5.30 | 1 | | | | | | 5-point | High | NR | | |
| 5006 | WS19-0289-SO5006-N-111319 | 11/13/2019 | 1005 | 0289 | Hibernia | 7.32 | | | | | | | Grab | None | Low | | |
| 5007 | WS19-0289-SO5007-N-111319 | 11/13/2019 | 1030 | 0289 | Hibernia | 6.60 | 1 | | | | | | 5-point | High | NR | | |
| 5008 | WS19-1045-SO5008-N-102319 | 10/23/2019 | 1050 | 1045 | Tzarena | NR | | 1 | | | | | 5-point | NR | NR | No pH collected | WS19-1045-SO5008-N-102319 |
| 5009 | WS19-1045-SO5009-N-102319 | 10/23/2019 | 0940 | 1045 | Tzarena | 6.61 | 1 | | | | | | 5-point | High | NR | | |
| 5010 | WS19-0004-SO5010-N-102519 | 10/25/2019 | 1400 | 0004 | Robert | 8.22 | | | | | | | Grab | NR | NR | | |
| 5011 | WS19-0005-SO5011-N-102519 | 10/25/2019 | 1410 | 0005 | Manhattan | 7.20 | 1 | | | | | | Grab | NR | NR | | |
| 5012 | WS19-0289-SO5012-N-111319 | 11/13/2019 | 1035 | 0289 | Hibernia | 8.23 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5013 | WS19-0006-SO5013-N-110419 | 11/4/2019 | 1410 | 0006 | Mountain Boy | 8.86 | | | | | | | Grab | NR | NR | | |
| 5014 | WS19-0006-SO5014-N-110419 | 11/4/2019 | 1355 | 0006 | Mountain Boy | 7.91 | 1 | | | | | | 5-point | Low | NR | | |
| 5015 | WS19-0006-SO5015-N-110419 | 11/4/2019 | 1255 | 0006 | Mountain Boy | 5.60 | 1 | | | | | | Grab | High | NR | | |
| 5016 | WS19-0006-SO5016-N-102519 | 10/25/2019 | 1515 | 0006 | Mountain Boy | 7.68 | | | | | | | Grab | NR | NR | | |
| 5017 | WS19-0290-SO5017-N-111319 | 11/13/2019 | 1050 | 0290 | Horse Shoe | 7.19 | | 1 | 1 | 1 | | | 5-point | High | NR | | WS19-0290-SO5017-N-111319 |
| 5018 | WS19-0290-SO5018-N-111319 | 11/13/2019 | 1110 | 0290 | Horse Shoe | 3.56 | 1 | | | | | | Grab | Moderate | NR | | |
| 5019 | WS19-0290-SO5019-N-111319 | 11/13/2019 | 1120 | 0290 | Horse Shoe | 6.45 | 1 | | | | | | 5-point | NR | NR | | |
| 5020 | WS19-0288-SO5020-N-111519 | 11/15/2019 | 930 0935 | 0288 | Nettie | 5.97 | | | | | 2 | | 30-point | None | None | MIS Duplicate | WS19-0288-SO5020-N-111519 WS19-0288-SO5020-D-111519 |
| 5021 | WS19-0315-SO5021-N-110719 | 11/7/2019 | 1255 | 0315 | Garibaldi | 8.37 | 1 | | | | | | 5-point | Low | NR | | |
| 5022 | WS19-0315-SO5022-N-110719 | 11/7/2019 | 1305 | 0315 | Garibaldi | 7.57 | | | | | | | Grab | None | NR | | |
| 5023 | WS19-0317-SO5023-N-110719 | 11/7/2019 | 1245 | 0317 | St. Louis | 6.58 | | | | | | | Grab | High | NR | | |
| 5024 | WS19-0315-SO5024-N-110719 | 11/7/2019 | 1310 | 0315 | Garibaldi | 8.47 | 1 | | | | | | Grab | None | NR | | |
| 5025 | WS19-0313-SO5025-N-110719 | 11/7/2019 | 1320 | 0313 | Silver Cleft | 8.62 | | | | | | | Grab | High | NR | | |
| 5026 | WS19-0010-SO5026-N-110819 | 11/8/2019 | 1045 | 0010 | Minnie Jane | 4.80 | 1 | | | | | | 5-point | Moderate | NR | | |
| 5027 | WS19-1045-SO5027-N-102319 | 10/23/2019 | 1000 | 1045 | Tzarena | 4.63 | 1 | 1 | 1 | | | | 3-point | NR | NR | | WS19-1045-SO5027-N-102319 |
| 5028 | WS19-1045-SO5028-N-102319 | 10/23/2019 | 1035 | 1045 | Tzarena | 4.70 | 1 | 1 | | | | | 3-point | NR | NR | | WS19-1045-SO5028-N-102319 |
| 5029 | WS19-1045-SO5029-N-102319 | 10/23/2019 | 1040 | 1045 | Tzarena | 7.03 | | | | | | | Grab | NR | NR | | |
| 5030 | WS19-1045-SO5030-N-102319 | 10/23/2019 | 1100 | 1045 | Tzarena | 8.92 | 1 | 1 | | | | | 5-point | NR | NR | | WS19-1045-SO5030-N-102319 |
| 5031 | WS19-0003-SO5031-N-102319 | 10/23/2019 | 1125 | 0003 | Humboldt | 6.41 | 1 | | | | | | Grab | High | NR | | |
| 5032 | WS19-0003-SO5032-N-102319 | 10/23/2019 | 1130 | 0003 | Humboldt | 8.69 | 1 | | | | | | Grab | NR | NR | | |
| 5033 | WS19-0003-SO5033-N-102319 | 10/23/2019 | 1340 | 0003 | Humboldt | 8.84 | | | | | | | Grab | NR | NR | | |
| 5034 | WS19-0003-SO5034-N-102319 | 10/23/2019 | 1355 | 0003 | Humboldt | 7.90 | | | | | | | Grab | NR | NR | | |
| 5035 | WS19-0003-SO5035-N-102319 | 10/23/2019 | 1405 | 0003 | Humboldt | 8.61 | | | | | | | Grab | NR | NR | | |
| 5036 | WS19-0003-SO5036-N-102319 | 10/23/2019 | 1415 | 0003 | Humboldt | 5.82 | 1 | 1 | | | | | 3-point | NR | NR | | WS19-0003-SO5036-N-102319 |
| 5037 | WS19-0003-SO5037-N-102319 | 10/23/2019 | 1430 | 0003 | Humboldt | 9.15 | 1 | | | | | | Grab | NR | NR | | |
| 5038 | WS19-0003-SO5038-N-102319 | 10/23/2019 | 1450 | 0003 | Humboldt | 6.30 | 1 | 1 | | | | | 3-point | NR | NR | | WS19-0003-SO5038-N-102319 |
| 5039 | WS19-0003-SO5039-N-102319 | 10/23/2019 | 1500 | 0003 | Humboldt | 8.70 | | | | | 1 | | 30-point | High | NR | | WS19-0003-SO5039-N-102319 |
| 5040 | WS19-0003-SO5040-N-102319 | 10/23/2019 | 1530 | 0003 | Humboldt | 8.74 | 1 | | | | | | 10-point | NR | NR | | |
| 5041 | WS19-0003-SO5041-N-102319 | 10/23/2019 | 1545 | 0003 | Humboldt | 8.74 | | 1 | | | | | Grab | High | NR | | WS19-0003-SO5041-N-102319 |
| 5042 | WS19-0003-SO5042-N-102319 | 10/23/2019 | 1555 | 0003 | Humboldt | 8.83 | 1 | | | | | | 3-point | NR | NR | | |
| 5043 | WS19-0003-SO5043-N-102319 | 10/23/2019 | 1615 | 0003 | Humboldt | 4.70 | 1 | 1 | | | | | 4-point | NR | NR | | WS19-0003-SO5043-N-102319 |
| 5044 | WS19-0043-SO5044-N-102419 | 10/24/2019 | 1200 | 0043 | Germania | 5.90 | | | | | | | Grab | NR | NR | | |
| 5045 | WS19-0003-SO5045-N-102419 | 10/24/2019 | 1205 | 0003 | Humboldt | 5.05 | | | | | | | Grab | High | NR | | |
| 5046 | WS19-0003-SO5046-N-102419 | 10/24/2019 | 1210 | 0003 | Humboldt | 4.95 | | | | | | | Grab | NR | NR | | |
| 5047 | WS19-0043-SO5047-N-102419 | 10/24/2019 | 1220 | 0043 | Germania | 4.43 | | 1 | 1 | | | | 5-point | NR | NR | | WS19-0043-SO5047-N-102419 |
| 5048 | WS19-0003-SO5048-N-102419 | 10/24/2019 | 1235 1240 | 0003 | Humboldt | 4.87 | 1 | 2 | | | | | 5-point | High | NR | Metals Duplicate | WS19-0003-SO5048-N-102419 WS19-0003-SO5048-D-102419 |
| 5049 | WS19-0003-SO5049-N-102419 | 10/24/2019 | 1245 | 0003 | Humboldt | 4.60 | 1 | | | | | | Grab | NR | NR | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|------------|--------------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|---------------------------|--|
| 5050 | WS19-0003-SO5050-N-102419 | 10/24/2019 | 1258 | 0003 | Humboldt | 5.08 | | | | | | | Grab | Low | NR | | |
| 5051 | WS19-0003-SO5051-N-102419 | 10/24/2019 | 1310 | 0003 | Humboldt | 5.66 | 1 | | | | | | 5-point | Low | NR | | |
| 5052 | WS19-0003-SO5052-N-102419 | 10/24/2019 | 1320 | 0003 | Humboldt | 5.68 | 1 | 1 | | | | | 5-point | High | NR | | WS19-0003-SO5052-N-102419 |
| 5053 | WS19-0040-SO5053-N-102419 | 10/24/2019 | 1450 | 0040 | Elba | 5.27 | 1 | | | | | | Grab | High | NR | | |
| 5054 | WS19-0040-SO5054-N-102419 | 10/24/2019 | 1505 | 0040 | Elba | 5.25 | | | | | | | Grab | Moderate | NR | | |
| 5055 | WS19-0040-SO5055-N-102419 | 10/24/2019 | 1520 | 0040 | Elba | 5.82 | 1 | 1 | | | | | 5-point | High | NR | | WS19-0040-SO5055-N-102419 |
| 5056 | WS19-0040-SO5056-N-102419 | 10/24/2019 | 1530 | 0040 | Elba | 7.40 | | | | | | | Grab | NR | NR | | |
| 5057 | WS19-0040-SO5057-N-102419 | 10/24/2019 | 1535 | 0040 | Elba | 5.98 | | | | | | | Grab | NR | NR | | |
| 5058 | WS19-0040-SO5058-N-102419 | 10/24/2019 | 1540 | 0040 | Elba | 7.86 | | | | | | | Grab | NR | NR | | |
| 5059 | WS19-0040-SO5059-N-102419 | 10/24/2019 | 1542 | 0040 | Elba | 5.52 | 1 | | | | | | 5-point | NR | NR | | |
| 5060 | WS19-0040-SO5060-N-102419 | 10/24/2019 | 1550 | 0040 | Elba | 7.94 | 1 | | | | | | Grab | Low | NR | | |
| 5061 | WS19-0040-SO5061-N-102419 | 10/24/2019 | 1600 | 0040 | Elba | 4.13 | 1 | | | | | | 5-point | NR | NR | | |
| 5062 | WS19-0040-SO5062-N-102419 | 10/24/2019 | 1610 | 0040 | Elba | 4.49 | 1 | 1 | | | | | Grab | NR | NR | | WS19-0040-SO5062-N-102419 |
| 5063 | WS19-0040-SO5063-N-102519 | 10/25/2019 | 0850 | 0040 | Elba | 5.22 | | | | | 1 | | 30-point | NR | NR | | WS19-0040-SO5063-N-102519 |
| 5064 | WS19-0040-SO5064-N-102519 | 10/25/2019 | 0915 | 0040 | Elba | 4.92 | 1 | 1 | | | | | 5-point | High | NR | | WS19-0040-SO5064-N-102519 |
| 5065 | WS19-0040-SO5065-N-102519 | 10/25/2019 | 0920 | 0040 | Elba | 6.05 | | | | | | | Grab | NR | NR | | |
| 5066 | WS19-0040-SO5066-N-102519 | 10/25/2019 | 0930 | 0040 | Elba | 7.70 | | | | | | | Grab | NR | NR | | |
| 5067 | WS19-0040-SO5067-N-102519 | 10/25/2019 | 0935 | 0040 | Elba | 8.13 | | | | | | | Grab | Low | NR | | |
| 5068 | WS19-0040-SO5068-N-102519 | 10/25/2019 | 0940 | 0040 | Elba | 7.77 | | | | | | | Grab | NR | NR | | |
| 5069 | WS19-0040-SO5069-N-102519 | 10/25/2019 | 0950 | 0040 | Elba | 4.97 | 1 | | | | | | 5-point | Low | NR | | |
| 5070 | WS19-0040-SO5070-N-102519 | 10/25/2019 | 1000 | 0040 | Elba | 5.58 | | | | | | | Grab | Moderate | NR | | |
| 5071 | WS19-0040-SO5071-N-102519 | 10/25/2019 | 1005 | 0040 | Elba | 7.41 | | | | | | | Grab | Low | NR | | |
| 5072 | WS19-0040-SO5072-N-102519 | 10/25/2019 | 1015 | 0040 | Elba | 7.70 | 1 | | | | | | Grab | NR | High | | |
| 5073 | WS19-0040-SO5073-N-102519 | 10/25/2019 | 1020 | 0040 | Elba | 6.62 | 1 | 1 | | | | | 5-point | Low | NR | | WS19-0040-SO5073-N-102519 |
| 5074 | WS19-0040-SO5074-N-102519 | 10/25/2019 | 1030 | 0040 | Elba | 5.61 | 1 | | | | | | Grab | NR | NR | | |
| 5075 | WS19-0040-SO5075-N-102519 | 10/25/2019 | 1110 | 0040 | Elba | 6.83 | | 1 | | | | | Grab | NR | NR | | WS19-0040-SO5075-N-102519 |
| 5076 | WS19-0040-SO5076-N-102519 | 10/25/2019 | 1120 | 0040 | Elba | 5.08 | 1 | 1 | | | | | 5-point | NR | NR | | WS19-0040-SO5076-N-102519 |
| 5077 | WS19-0040-SO5077-N-102519 | 10/25/2019 | 1130 | 0040 | Elba | 5.54 | | | | | | | Grab | NR | NR | | |
| 5078 | WS19-0040-SO5078-N-102519 | 10/25/2019 | 1135 | 0040 | Elba | 7.75 | | | | | | | Grab | Low | NR | | |
| 5079 | WS19-0040-SO5079-N-102519 | 10/25/2019 | 1140 | 0040 | Elba | 5.23 | | | | | | | Grab | NR | NR | | |
| 5080 | WS19-0040-SO5080-N-102519 | 10/25/2019 | 1150 | 0040 | Elba | 4.70 | 1 | | | | | | 5-point | High | NR | | |
| 5081 | WS19-0043-SO5081-N-102519 | 10/25/2019 | 1200 | 0043 | Germania | 5.66 | 1 | 1 | | | | | 5-point | Moderate | NR | | WS19-0043-SO5081-N-102519 |
| 5082 | WS19-0043-SO5082-N-102519 | 10/25/2019 | 1215 | 0043 | Germania | 8.31 | | | | | | | Grab | NR | NR | | |
| 5083 | WS19-0043-SO5083-N-102519 | 10/25/2019 | 1225 | 0043 | Germania | 8.22 | 1 | 1 | | | | | 5-point | NR | NR | | WS19-0043-SO5083-N-102519 |
| 5084 | WS19-0043-SO5084-N-102519 | 10/25/2019 | 1230 | 0043 | Germania | 7.14 | | | | | | | Grab | NR | NR | | |
| 5085 | WS19-0043-SO5085-N-102519 | 10/25/2019 | 1240 | 0043 | Germania | 5.98 | 1 | | | | | | 10-point | Moderate | NR | | |
| 5086 | WS19-0043-SO5086-N-102519 | 10/25/2019 | 1250 | 0043 | Germania | 8.11 | 1 | | | | | | Grab | Moderate | NR | | |
| 5087 | WS19-0043-SO5087-N-102519 | 10/25/2019 | 1255 | 0043 | Germania | 6.05 | 1 | | | | | | Grab | High | NR | | |
| 5088 | WS19-0005-SO5088-N-102519 | 10/25/2019 | 1415 | 0005 | Manhattan | 7.93 | 1 | | | | | | 5-point | High | NR | | |
| 5089 | WS19-0005-SO5089-N-102519 | 10/25/2019 | 1425 | 0005 | Manhattan | 7.46 | | | | | | | Grab | NR | NR | | |
| 5090 | WS19-0005-SO5090-N-102519 | 10/25/2019 | 1430 | 0005 | Manhattan | 6.46 | 1 | 1 | | | | | 5-point | Moderate | NR | | WS19-0005-SO5090-N-102519 |
| 5091 | WS19-0005-SO5091-N-102519 | 10/25/2019 | 1435 | 0005 | Manhattan | 7.98 | | | | | | | Grab | Low | NR | | |
| 5092 | WS19-0006-SO5092-N-102519 | 10/25/2019 | 1450 1450 | 0006 | Mountain Boy | 4.67 | | 2 | 2 | 1 | | | 5-point | Moderate | NR | Metals and SPLP Duplicate | WS19-0006-SO5092-N-102519 WS19-0006-SO5092-D-102519 |
| 5093 | WS19-0006-SO5093-N-102519 | 10/25/2019 | 1510 | 0006 | Mountain Boy | 5.34 | 1 | 1 | | | | | 5-point | Moderate | NR | | WS19-0006-SO5093-N-102519 |
| 5094 | WS19-0043-SO5094-N-102819 | 10/28/2019 | 1020 | 0043 | Germania | 7.55 | 1 | 1 | | | | | 6-point | NR | NR | | WS19-0043-SO5094-N-102819 |
| 5095 | WS19-0003-SO5095-N-102819 | 10/28/2019 | 1055 | 0003 | Humboldt | 8.54 | | | | | 1 | | 30-point | NR | NR | | WS19-0003-SO5095-N-102819 |
| 5096 | WS19-0003-SO5096-N-102819 | 10/28/2019 | 1120 | 0003 | Humboldt | 5.53 | | | | | | | Grab | NR | NR | | |
| 5097 | WS19-0040-SO5097-N-103119 | 10/31/2019 | 1100 | 0040 | Elba | 5.22 | | | | | | | Grab | NR | NR | | |
| 5098 | WS19-0040-SO5098-N-103119 | 10/31/2019 | 1102 | 0040 | Elba | 8.93 | | | | | | | Grab | NR | NR | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|------------|------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|-------|---------------------------|
| 5099 | WS19-0040-SO5099-N-103119 | 10/31/2019 | 1105 | 0040 | Elba | 5.64 | | | | | | | Grab | NR | NR | | |
| 5100 | WS19-0040-SO5100-N-103119 | 10/31/2019 | 1107 | 0040 | Elba | 7.06 | | | | | | | Grab | NR | NR | | |
| 5101 | WS19-0040-SO5101-N-103119 | 10/31/2019 | 1112 | 0040 | Elba | 4.54 | 1 | | | | | | 6-point | High | NR | | |
| 5102 | WS19-0040-SO5102-N-103119 | 10/31/2019 | 1130 | 0040 | Elba | 5.96 | 1 | | | | | | 6-point | High | NR | | |
| 5103 | WS19-0040-SO5103-N-103119 | 10/31/2019 | 1145 | 0040 | Elba | 6.11 | | | | | | | Grab | High | NR | | |
| 5104 | WS19-0040-SO5104-N-103119 | 10/31/2019 | 1150 | 0040 | Elba | 5.31 | | | | | | | Grab | Moderate | NR | | |
| 5105 | WS19-0040-SO5105-N-103119 | 10/31/2019 | 1155 | 0040 | Elba | 5.79 | 1 | 1 | | | | | 5-point | High | NR | | WS19-0040-SO5105-N-103119 |
| 5106 | WS19-0040-SO5106-N-103119 | 10/31/2019 | 1215 | 0040 | Elba | 6.11 | 1 | | | | | | Grab | High | NR | | |
| 5107 | WS19-0040-SO5107-N-103119 | 10/31/2019 | 1320 | 0040 | Elba | 7.35 | 1 | | | | | | 6-point | Low | NR | | |
| 5108 | WS19-0040-SO5108-N-103119 | 10/31/2019 | 1335 | 0040 | Elba | 7.28 | | | | | | | Grab | Moderate | High | | |
| 5109 | WS19-0040-SO5109-N-103119 | 10/31/2019 | 1340 | 0040 | Elba | 7.15 | 1 | | | | | | 5-point | NR | High | | |
| 5110 | WS19-0040-SO5110-N-103119 | 10/31/2019 | 1355 | 0040 | Elba | 8.09 | | | | | | | Grab | Low | NR | | |
| 5111 | WS19-0038-SO5111-N-103119 | 10/31/2019 | 1405 | 0038 | North Pole | 6.92 | 1 | | | | | | Grab | High | NR | | |
| 5112 | WS19-0038-SO5112-N-103119 | 10/31/2019 | 1415 | 0038 | North Pole | 5.55 | | | | | | | Grab | NR | NR | | |
| 5113 | WS19-0041-SO5113-N-103119 | 10/31/2019 | 1430 | 0041 | Katie T | 7.53 | | | | | 1 | | 30-point | None | None | | WS19-0041-SO5113-N-103119 |
| 5114 | WS19-0038-SO5114-N-103119 | 10/31/2019 | 1500 | 0038 | North Pole | 6.31 | | | | | | | Grab | High | NR | | |
| 5115 | WS19-0038-SO5115-N-103119 | 10/31/2019 | 1505 | 0038 | North Pole | 8.41 | | | | | | | Grab | Low | High | | |
| 5116 | WS19-0041-SO5116-N-103119 | 10/31/2019 | 1515 | 0041 | Katie T | 4.94 | 1 | | | | | | 5-point | High | NR | | |
| 5117 | WS19-0038-SO5117-N-103119 | 10/31/2019 | 1525 | 0038 | North Pole | 8.85 | | | | | | | Grab | Low | Moderate | | |
| 5118 | WS19-0006-SO5118-N-110419 | 11/4/2019 | 1040 | 0006 | Mountain Boy | 3.56 | | | | | | | Grab | Low | NR | | |
| 5119 | WS19-0006-SO5119-N-110419 | 11/4/2019 | 1045 | 0006 | Mountain Boy | 4.77 | | | | | | | Grab | High | NR | | |
| 5120 | WS19-0006-SO5120-N-110419 | 11/4/2019 | 1050 | 0006 | Mountain Boy | 8.66 | | | | | | | Grab | None | NR | | |
| 5121 | WS19-0006-SO5121-N-110419 | 11/4/2019 | 1055 | 0006 | Mountain Boy | 4.39 | | | | | | | Grab | Moderate | NR | | |
| 5122 | WS19-0006-SO5122-N-110419 | 11/4/2019 | 1100 | 0006 | Mountain Boy | 3.79 | 1 | | | | | | 5-point | Low | NR | | |
| 5123 | WS19-0006-SO5123-N-110419 | 11/4/2019 | 1115 | 0006 | Mountain Boy | 5.36 | 1 | 1 | 1 | | | | 5-point | NR | NR | | WS19-0006-SO5123-N-110419 |
| 5124 | WS19-0006-SO5124-N-110419 | 11/4/2019 | 1130 | 0006 | Mountain Boy | 5.29 | | | | | 1 | | 30-point | High | NR | | WS19-0006-SO5124-N-110419 |
| 5125 | WS19-0006-SO5125-N-110419 | 11/4/2019 | 1145 | 0006 | Mountain Boy | 4.69 | 1 | | | | | | 5-point | High | NR | | |
| 5126 | WS19-0006-SO5126-N-110419 | 11/4/2019 | 1150 | 0006 | Mountain Boy | 3.85 | | | | | | | Grab | Moderate | NR | | |
| 5127 | WS19-0006-SO5127-N-110419 | 11/4/2019 | 1155 | 0006 | Mountain Boy | 4.11 | | | | | | | Grab | High | NR | | |
| 5128 | WS19-0006-SO5128-N-110419 | 11/4/2019 | 1205 | 0006 | Mountain Boy | 5.14 | 1 | | | | | | Grab | Moderate | NR | | |
| 5129 | WS19-0006-SO5129-N-110419 | 11/4/2019 | 1320 | 0006 | Mountain Boy | 6.40 | | | | | 1 | | 30-point | NR | NR | | WS19-0006-SO5129-N-110419 |
| 5130 | WS19-0041-SO5130-N-110419 | 11/4/2019 | 1345 | 0041 | Katie T | 7.61 | | | | | | | Grab | NR | NR | | |
| 5131 | WS19-0006-SO5131-N-110419 | 11/4/2019 | 1400 | 0006 | Mountain Boy | 9.22 | 1 | | | | | | Grab | Low | NR | | |
| 5132 | WS19-0007-SO5132-N-110419 | 11/4/2019 | 1415 | 0007 | Silver Gate | 6.16 | 1 | | | | | | Grab | High | NR | | |
| 5133 | WS19-0008-SO5133-N-110419 | 11/4/2019 | 1450 | 0008 | St. Patrick A | 6.38 | | | | | | | 5-point | High | NR | | |
| 5134 | WS19-0008-SO5134-N-110419 | 11/4/2019 | 1500 | 0008 | St. Patrick A | 8.22 | | | | | | | Grab | Moderate | NR | | |
| 5135 | WS19-0037-SO5135-N-110419 | 11/4/2019 | 1515 | 0037 | Joseph Joyce | 8.51 | | | | | | | Grab | Low | NR | | |
| 5136 | WS19-0037-SO5136-N-110419 | 11/4/2019 | 1530 | 0037 | Joseph Joyce | 4.86 | 1 | | | | | | 5-point | High | NR | | |
| 5137 | WS19-0038-SO5137-N-110419 | 11/4/2019 | 1540 | 0038 | North Pole | 7.25 | | | | | | | Grab | Low | NR | | |
| 5138 | WS19-0037-SO5138-N-110419 | 11/4/2019 | 1545 | 0037 | Joseph Joyce | 4.66 | 1 | | | | | | 5-point | High | NR | | |
| 5139 | WS19-0037-SO5139-N-110519 | 11/5/2019 | 1030 | 0037 | Joseph Joyce | 7.86 | | | | | | | Grab | Moderate | Moderate | | |
| 5140 | WS19-0037-SO5140-N-110519 | 11/5/2019 | 1040 | 0037 | Joseph Joyce | 5.62 | 1 | | | | | | 5-point | Moderate | NR | | |
| 5141 | WS19-0038-SO5141-N-110519 | 11/5/2019 | 1045 | 0038 | North Pole | 6.68 | | | | | | | Grab | Moderate | NR | | |
| 5142 | WS19-0037-SO5142-N-110519 | 11/5/2019 | 1055 | 0037 | Joseph Joyce | 4.10 | | 1 | | | | | Grab | Low | NR | | WS19-0037-SO5142-N-110519 |
| 5143 | WS19-0038-SO5143-N-110519 | 11/5/2019 | 1105 | 0038 | North Pole | 4.08 | 1 | | | | | | 5-point | High | NR | | |
| 5144 | WS19-0038-SO5144-N-110519 | 11/5/2019 | 1110 | 0038 | North Pole | 6.03 | | | | | | | Grab | NR | NR | | |
| 5145 | WS19-0038-SO5145-N-110519 | 11/5/2019 | 1112 | 0038 | North Pole | 8.18 | | | | | | | Grab | Moderate | Moderate | | |
| 5146 | WS19-0037-SO5146-N-110519 | 11/5/2019 | 1130 | 0037 | Joseph Joyce | 7.74 | | | | | | | Grab | Low | NR | | |
| 5147 | WS19-0038-SO5147-N-110519 | 11/5/2019 | 1135 | 0038 | North Pole | 7.03 | 1 | | | | | | 5-point | High | NR | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|--------------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|---|--|
| 5148 | WS19-0037-SO5148-N-110519 | 11/5/2019 | 1140 | 0037 | Joseph Joyce | 7.78 | | | | | | | Grab | NR | NR | | |
| 5149 | WS19-0037-SO5149-N-110519 | 11/5/2019 | 1145 | 0037 | Joseph Joyce | 5.06 | | | | | | | Grab | High | NR | | |
| 5150 | WS19-0037-SO5150-N-110519 | 11/5/2019 | 1150 | 0037 | Joseph Joyce | 3.71 | | | | | | | Grab | Moderate | NR | | |
| 5151 | WS19-0038-SO5151-N-110519 | 11/5/2019 | 1155 | 0038 | North Pole | 7.08 | | | | | | | Grab | NR | NR | | |
| 5152 | WS19-0038-SO5152-N-110519 | 11/5/2019 | 1205 | 0038 | North Pole | 8.21 | | | | | | | Grab | High | NR | | |
| 5153 | WS19-0038-SO5153-N-110519 | 11/5/2019 | 1210 | 0038 | North Pole | 4.47 | 1 | | | | | | 5-point | NR | NR | | |
| 5154 | WS19-0038-SO5154-N-110519 | 11/5/2019 | 1220 | 0038 | North Pole | 8.61 | | | | | | | Grab | Low | NR | | |
| 5155 | WS19-0037-SO5155-N-110519 | 11/5/2019 | 1230 | 0037 | Joseph Joyce | 5.31 | 1 | 1 | | | | | 6-Point | High | NR | | WS19-0037-SO5155-N-110519 |
| 5156 | WS19-0037-SO5156-N-110519 | 11/5/2019 | 1240 | 0037 | Joseph Joyce | 5.53 | | | | | | | Grab | Moderate | NR | | |
| 5157 | WS19-0037-SO5157-N-110519 | 11/5/2019 | 1400 | 0037 | Joseph Joyce | 7.56 | | | | | | | Grab | Moderate | NR | | |
| 5158 | WS19-0037-SO5158-N-110519 | 11/5/2019 | 1410 | 0037 | Joseph Joyce | 8.23 | 1 | | | | | | 5-point | High | NR | | |
| 5159 | WS19-0010-SO5159-N-110519 | 11/5/2019 | 1420 | 0010 | Minnie Jane | 7.49 | | | | | | | Grab | Low | NR | | |
| 5160 | WS19-0010-SO5160-N-110519 | 11/5/2019 | 1430 | 0010 | Minnie Jane | 6.67 | 1 | | | | | | 6-point | Moderate | High | | |
| 5161 | WS19-0010-SO5161-N-110519 | 11/5/2019 | 1435 | 0010 | Minnie Jane | 7.85 | | | | | | | Grab | NR | NR | | |
| 5162 | WS19-0010-SO5162-N-110519 | 11/5/2019 | 1440 | 0010 | Minnie Jane | 5.62 | 1 | | | | | | 5-point | High | NR | | |
| 5163 | WS19-0010-SO5163-N-110519 | 11/5/2019 | 1500 | 0010 | Minnie Jane | 6.42 | | | | | | | Grab | High | NR | | |
| 5164 | WS19-0010-SO5164-N-110519 | 11/5/2019 | 1505 | 0010 | Minnie Jane | 6.49 | 1 | | | | | | Grab | Low | NR | | |
| 5165 | WS19-0010-SO5165-N-110519 | 11/5/2019 | 1510 | 0010 | Minnie Jane | 6.90 | | | | | | | Grab | Low | High | | |
| 5166 | WS19-0010-SO5166-N-110519 | 11/5/2019 | 1515 | 0010 | Minnie Jane | 7.41 | | | | | | | Grab | NR | NR | | |
| 5167 | WS19-0010-SO5167-N-110519 | 11/5/2019 | 1525 | 0010 | Minnie Jane | 5.85 | | | | | | | Grab | High | NR | | |
| 5168 | WS19-1131-SO5168-N-110519 | 11/5/2019 | 1530 | 1131 | Williamette | 6.44 | | 1 | | | | | 5-point | High | Moderate | | WS19-1131-SO5168-N-110519 |
| 5169 | WS19-0037-SO5169-N-110519 | 11/5/2019 | 1535 | 0037 | Joseph Joyce | 7.39 | | | | | | | Grab | Moderate | Moderate | | |
| 5170 | WS19-0010-SO5170-N-110519 | 11/5/2019 | 1555 | 0010 | Minnie Jane | 4.97 | 1 | | | | | | 9-point | High | NR | | |
| 5171 | WS19-0010-SO5171-N-110519 | 11/5/2019 | 1605 | 0010 | Minnie Jane | 5.56 | 1 | | | | | | 10-point | NR | NR | | |
| 5172 | WS19-0010-SO5172-N-110719 | 11/7/2019 | 1050 | 0010 | Minnie Jane | 7.76 | 1 | | | | | | 5-point | High | NR | | |
| 5173 | WS19-0010-SO5173-N-110719 | 11/7/2019 | 1100 | 0010 | Minnie Jane | 8.52 | 1 | | | | | | 6-point | NR | NR | | |
| 5174 | WS19-0010-SO5174-N-110719 | 11/7/2019 | 1115 | 0010 | Minnie Jane | 7.54 | 2 | | | | | | Grab | High | NR | Field Duplicate for XRF Analysis WS19-0010-SO5174-D-110719 | |
| 5175 | WS19-0010-SO5175-N-110719 | 11/7/2019 | 1130 1135 | 0010 | Minnie Jane | 8.18 | | 2 | | | | | 6-point | Moderate | NR | Metals Duplicate | WS19-0010-SO5175-N-110719 WS19-0010-SO5175-D-110719 |
| 5176 | WS19-0010-SO5176-N-110719 | 11/7/2019 | 1145 | 0010 | Minnie Jane | 8.36 | 1 | | | | | | Grab | NR | NR | | |
| 5177 | WS19-0010-SO5177-N-110719 | 11/7/2019 | 1200 | 0010 | Minnie Jane | 7.56 | 1 | | | | | | 5-point | High | NR | | |
| 5178 | WS19-0315-SO5178-N-110719 | 11/7/2019 | 1225 | 0315 | Garibaldi | 8.42 | | | | | | | Grab | Low | NR | | |
| 5179 | WS19-0315-SO5179-N-110719 | 11/7/2019 | 1235 | 0315 | Garibaldi | NA | | | | | | | NA | High | NR | Bedrock outcrop. Rock Highly Mn stained | |
| 5180 | WS19-0313-SO5180-N-110719 | 11/7/2019 | 1325 | 0313 | Silver Cleft | 5.91 | 1 | | | | | | Grab | NR | NR | | |
| 5181 | WS19-0015-SO5181-N-110719 | 11/7/2019 | 1430 | 0015 | Milwaukee | 5.57 | | 1 | 1 | | | | 5-point | High | NR | | WS19-0015-SO5181-N-110719 |
| 5182 | WS19-0015-SO5182-N-110719 | 11/7/2019 | 1440 | 0015 | Milwaukee | 5.05 | 1 | | | | | | 6-point | Low | NR | | |
| 5183 | WS19-0015-SO5183-N-110719 | 11/7/2019 | 1445 | 0015 | Milwaukee | 5.31 | 1 | | | | | | 5-point | High | NR | | |
| 5184 | WS19-0313-SO5184-N-110719 | 11/7/2019 | 1505 | 0313 | Silver Cleft | 4.22 | | | | | | | Grab | NR | NR | | |
| 5185 | WS19-0010-SO5185-N-110719 | 11/7/2019 | 1525 | 0010 | Minnie Jane | 7.24 | 1 | | | | | | 5-point | Moderate | NR | | |
| 5186 | WS19-0010-SO5186-N-110819 | 11/8/2019 | 1030 | 0010 | Minnie Jane | 4.73 | | | | | | | Grab | High | NR | | |
| 5187 | WS19-0010-SO5187-N-110819 | 11/8/2019 | 1035 | 0010 | Minnie Jane | 3.97 | 1 | 1 | | | | | 5-point | High | NR | | WS19-0010-SO5187-N-110819 |
| 5188 | WS19-0010-SO5188-N-110819 | 11/8/2019 | 1055 | 0010 | Minnie Jane | 5.78 | | | | | | | Grab | NR | High | | |
| 5189 | WS19-0010-SO5189-N-110819 | 11/8/2019 | 1100 | 0010 | Minnie Jane | 5.69 | | | | | | | Grab | Moderate | NR | | |
| 5190 | WS19-0012-SO5190-N-110819 | 11/8/2019 | 1115 | 0012 | Prospector | 7.22 | | | | | 1 | | 30-point | NR | NR | | WS19-0012-SO5190-N-110819 |
| 5191 | WS19-0020-SO5191-N-110819 | 11/8/2019 | 1315 | 0020 | Violet | NA | | | | | | | NA | NR | NR | Bedrock outcrop | |
| 5192 | WS19-0019-SO5192-N-110819 | 11/8/2019 | 1335 | 0019 | Charmmer | 4.47 | 1 | | | | | | 5-point | High | NR | | |
| 5193 | WS19-0019-SO5193-N-110819 | 11/8/2019 | 1350 | 0019 | Charmmer | 5.91 | 1 | 1 | 1 | 1 | | | 7-point | Moderate | NR | | WS19-0019-SO5193-N-110819 |
| 5194 | WS19-0017-SO5194-N-110819 | 11/8/2019 | 1435 | 0017 | Kit Carson | 5.79 | 1 | | | | | | 5-point | Low | NR | | |
| 5195 | WS19-0015-SO5195-N-110819 | 11/8/2019 | 1450 | 0015 | Milwaukee | 7.04 | | | | | | | Grab | Moderate | NR | | |

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| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|------------|------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|-----------------------|---------------------------|
| 5196 | WS19-0015-SO5196-N-110819 | 11/8/2019 | 1455 | 0015 | Milwaukee | 5.30 | | | | | | | Grab | Moderate | NR | | |
| 5197 | WS19-0015-SO5197-N-110819 | 11/8/2019 | 1500 | 0015 | Milwaukee | 8.07 | 1 | | | | | | Grab | NR | NR | | |
| 5198 | WS19-0015-SO5198-N-110819 | 11/8/2019 | 1507 | 0015 | Milwaukee | 7.03 | | | | | | | Grab | Low | High | | |
| 5199 | WS19-0015-SO5199-N-110819 | 11/8/2019 | 1512 | 0015 | Milwaukee | 8.24 | | | | | | | Grab | NR | NR | | |
| 5200 | WS19-0015-SO5200-N-110819 | 11/8/2019 | 1520 | 0015 | Milwaukee | 4.87 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5201 | WS19-0015-SO5201-N-110819 | 11/8/2019 | 1525 | 0015 | Milwaukee | 6.25 | | | | | | | Grab | Low | High | | |
| 5202 | WS19-0015-SO5202-N-110819 | 11/8/2019 | 1530 | 0015 | Milwaukee | 5.40 | | | | | | | Grab | Moderate | NR | | |
| 5203 | WS19-0015-SO5203-N-110819 | 11/8/2019 | 1535 | 0015 | Milwaukee | 7.83 | | | | | | | Grab | Low | NR | | |
| 5204 | WS19-0015-SO5204-N-110819 | 11/8/2019 | 1545 | 0015 | Milwaukee | 4.49 | 1 | 1 | | | | | 5-point | High | Moderate | | WS19-0015-SO5204-N-110819 |
| 5205 | WS19-0290-SO5205-N-111319 | 11/13/2019 | 1130 | 0290 | Horse Shoe | 7.10 | | 1 | | | | | 5-point | NR | NR | | WS19-0290-SO5205-N-111319 |
| 5206 | WS19-0290-SO5206-N-111319 | 11/13/2019 | 1140 | 0290 | Horse Shoe | 3.72 | 1 | | | | | | 5-point | Low | NR | | |
| 5207 | WS19-0290-SO5207-N-111319 | 11/13/2019 | 1150 | 0290 | Horse Shoe | 6.60 | | 1 | 1 | | | | 5-point | High | NR | | WS19-0290-SO5207-N-111319 |
| 5208 | WS19-0289-SO5208-N-111319 | 11/13/2019 | 1240 | 0289 | Hibernia | NA | | | | | | | NA | NR | NR | Bedrock outcrop | |
| 5209 | WS19-0292-SO5209-N-111319 | 11/13/2019 | 1255 | 0292 | Myrtle | 5.99 | | | | | | | Grab | NR | NR | | |
| 5210 | WS19-0292-SO5210-N-111319 | 11/13/2019 | 1300 | 0292 | Myrtle | 4.89 | | | | | | | Grab | None | High | | |
| 5211 | WS19-0292-SO5211-N-111319 | 11/13/2019 | 1315 | 0292 | Myrtle | 2.49 | 1 | | | | | | Grab | NR | NR | | |
| 5212 | WS19-0296-SO5212-N-111319 | 11/13/2019 | 1330 | 0296 | Philadelphia | NA | | | | | | | NA | NR | NR | Stripped topsoil pile | |
| 5213 | WS19-0292-SO5213-N-111319 | 11/13/2019 | 1400 | 0292 | Myrtle | 6.30 | | | | | | | Grab | NR | NR | | |
| 5214 | WS19-0292-SO5214-N-111319 | 11/13/2019 | 1410 | 0292 | Myrtle | 6.46 | 1 | | | | | | Grab | None | Low | | |
| 5215 | WS19-0288-SO5215-N-111519 | 11/15/2019 | 0955 | 0288 | Nettie | 7.18 | 1 | | | | | | 6-Point | High | NR | | |
| 5216 | WS19-0288-SO5216-N-111519 | 11/15/2019 | 1005 | 0288 | Nettie | 8.69 | | | | | | | Grab | Low | Low | | |
| 5217 | WS19-0288-SO5217-N-111519 | 11/15/2019 | 1010 | 0288 | Nettie | 2.59 | 1 | 1 | | | | | 5-point | Moderate | High | | WS19-0288-SO5217-N-111519 |
| 5218 | WS19-0297-SO5218-N-111519 | 11/15/2019 | 1025 | 0297 | Key West | 5.78 | 1 | | | | | | 5-point | High | NR | | |
| 5219 | WS19-0297-SO5219-N-111519 | 11/15/2019 | 1035 | 0297 | Key West | 5.06 | | | | | | | Grab | High | NR | | |
| 5220 | WS19-0297-SO5220-N-111519 | 11/15/2019 | 1045 | 0297 | Key West | 6.33 | 1 | | | | | | 5-point | High | NR | | |
| 5221 | WS19-0297-SO5221-N-111519 | 11/15/2019 | 1055 | 0297 | Key West | 5.07 | 1 | | | | | | Grab | Moderate | NR | | |
| 5222 | WS19-0288-SO5222-N-111519 | 11/15/2019 | 1110 | 0288 | Nettie | 6.73 | | 1 | 1 | | | | 5-point | High | NR | | WS19-0288-SO5222-N-111519 |
| 5223 | WS19-0288-SO5223-N-111519 | 11/15/2019 | 1120 | 0288 | Nettie | 6.87 | 1 | | | | | | 10-point | Low | NR | | |
| 5224 | WS19-0288-SO5224-N-111519 | 11/15/2019 | 1130 | 0288 | Nettie | 5.06 | 1 | | | | | | 5-point | High | NR | | |
| 5225 | WS19-0288-SO5225-N-111519 | 11/15/2019 | 1140 | 0288 | Nettie | 6.24 | | | | | | | Grab | High | High | | |
| 5226 | WS19-0288-SO5226-N-111519 | 11/15/2019 | 1155 | 0288 | Nettie | 9.19 | 1 | | | | | | Grab | NR | NR | | |
| 5227 | WS19-0288-SO5227-N-111519 | 11/15/2019 | 1245 | 0288 | Nettie | 8.53 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5228 | WS19-0288-SO5228-N-111519 | 11/15/2019 | 1255 | 0288 | Nettie | 8.89 | | | | | | | Grab | NR | Moderate | | |
| 5229 | WS19-0288-SO5229-N-111519 | 11/15/2019 | 1300 | 0288 | Nettie | 8.45 | | | | | | | Grab | High | High | | |
| 5230 | WS19-0288-SO5230-N-111519 | 11/15/2019 | 1310 | 0288 | Nettie | 8.85 | | | | | | | Grab | Low | NR | | |
| 5231 | WS19-0288-SO5231-N-111519 | 11/15/2019 | 1320 | 0288 | Nettie | 9.01 | 1 | 1 | | | | | 5-point | Moderate | Moderate | | WS19-0288-SO5231-N-111519 |
| 5232 | WS19-0288-SO5232-N-111519 | 11/15/2019 | 1335 | 0288 | Nettie | 8.31 | | | | | | | Grab | Moderate | High | | |
| 5233 | WS19-0288-SO5233-N-111519 | 11/15/2019 | 1340 | 0288 | Nettie | NA | | | | | | | NA | Moderate | High | Bare Area | |
| 5234 | WS19-0288-SO5234-N-111519 | 11/15/2019 | 1345 | 0288 | Nettie | 8.57 | 1 | | | | | | Grab | Moderate | Moderate | | |
| 5235 | WS19-0286-SO5235-N-111519 | 11/15/2019 | 1405 | 0286 | Creole | 7.41 | | | | | | | Grab | NR | NR | | |
| 5236 | WS19-0286-SO5236-N-111519 | 11/15/2019 | 1415 | 0286 | Creole | 7.50 | 1 | | | | | | Grab | Low | Moderate | | |
| 5237 | WS19-0286-SO5237-N-111519 | 11/15/2019 | 1440 | 0286 | Creole | 7.03 | | | | | | | Grab | Low | Moderate | | |
| 5238 | 20WS-0288-SO5238-N-051220 | 5/12/2020 | 0845 | 0288 | Nettie | 6.10 | 1 | | | | | | 10-point | Moderate | Low | | |
| 5239 | 20WS-0297-SO5239-N-051220 | 5/12/2020 | 0900 | 0297 | Key West | 4.42 | | 1 | | | | | Grab | Low | None | | 20WS-0297-SO5239-N-051220 |
| 5240 | 20WS-0297-SO5240-N-051220 | 5/12/2020 | 0915 | 0297 | Key West | 5.56 | 1 | | | | | | Grab | Low | Low | | |
| 5241 | 20WS-0297-SO5241-N-051220 | 5/12/2020 | 0920 | 0297 | Key West | 5.36 | 1 | | | | | | Grab | None | High | | |
| 5242 | 20WS-0297-SO5242-N-051220 | 5/12/2020 | 0925 | 0297 | Key West | 8.02 | 1 | | | | | | 5-point | Low | Low | | |
| 5243 | 20WS-0297-SO5243-N-051220 | 5/12/2020 | 1000 | 0297 | Key West | 5.84 | 1 | | | | | | 5-point | High | None | | |
| 5244 | 20WS-0297-SO5244-N-051220 | 5/12/2020 | 1015 | 0297 | Key West | 5.41 | 1 | 1 | | | | | 5-point | High | None | | 20WS-0297-SO5244-N-051220 |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|---------------------|---------------------------|
| 5245 | 20WS-0297-SO5245-N-051220 | 5/12/2020 | 1030 | 0297 | Key West | 6.61 | | 1 | | | | | Grab | None | High | | 20WS-0297-SO5245-N-051220 |
| 5246 | 20WS-0297-SO5246-N-051220 | 5/12/2020 | 1100 | 0297 | Key West | 6.21 | | | | | 1 | | 30-point | High | None | | 20WS-0297-SO5246-N-051220 |
| 5247 | 20WS-0297-SO5247-N-051220 | 5/12/2020 | 1105 | 0297 | Key West | 6.24 | 1 | | | | | | 5-point | Low | None | | |
| 5248 | 20WS-0297-SO5248-N-051220 | 5/12/2020 | 1120 | 0297 | Key West | 4.76 | 1 | | | | | | 10-point | Low | Low | | |
| 5249 | 20WS-0297-SO5249-N-051220 | 5/12/2020 | 1130 | 0297 | Key West | 5.45 | | 1 | 1 | 1 | | | 5-point | None | None | | 20WS-0297-SO5249-N-051220 |
| 5250 | 20WS-0297-SO5250-N-051220 | 5/12/2020 | 1140 | 0297 | Key West | 5.25 | | | | | | | Grab | None | Low | | |
| 5251 | 20WS-0297-SO5251-N-051220 | 5/12/2020 | 1225 | 0297 | Key West | 5.51 | 1 | | | | | | 5-point | High | None | | |
| 5252 | 20WS-0297-SO5252-N-051220 | 5/12/2020 | 1245 | 0297 | Key West | 3.46 | | | | | | | Grab | Moderate | None | | |
| 5253 | 20WS-0297-SO5253-N-051220 | 5/12/2020 | 1250 | 0297 | Key West | 4.58 | | | | | | | Grab | Low | Low | | |
| 5254 | 20WS-0297-SO5254-N-051220 | 5/12/2020 | 1255 | 0297 | Key West | 4.27 | | 1 | | | | | 5-point | Moderate | None | | 20WS-0297-SO5254-N-051220 |
| 5255 | 20WS-0297-SO5255-N-051220 | 5/12/2020 | 1300 | 0297 | Key West | 3.97 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5256 | 20WS-0297-SO5256-N-051220 | 5/12/2020 | 1305 | 0297 | Key West | 5.27 | | | | | 1 | | 30-point | Low | Low | | 20WS-0297-SO5256-N-051220 |
| 5257 | 20WS-0297-SO5257-N-051220 | 5/12/2020 | 1320 | 0297 | Key West | 4.41 | 1 | | | | | | 5-point | None | None | | |
| 5258 | 20WS-0297-SO5258-N-051220 | 5/12/2020 | 1325 | 0297 | Key West | 4.39 | | | | | | | Grab | Low | Low | | |
| 5259 | 20WS-0297-SO5259-N-051220 | 5/12/2020 | 1330 | 0297 | Key West | 4.52 | | | | | | | Grab | Low | Low | | |
| 5260 | 20WS-0297-SO5260-N-051220 | 5/12/2020 | 1340 | 0297 | Key West | 4.52 | 1 | | | | | | 5-point | Low | Low | | |
| 5261 | 20WS-0299-SO5261-N-051220 | 5/12/2020 | 1420 | 0299 | Fredonia | 8.94 | | | | | | | Grab | Low | None | | |
| 5262 | 20WS-0298-SO5262-N-051220 | 5/12/2020 | 1430 | 0298 | Cora No. 2 | 8.85 | | | | | | | Grab | Low | Moderate | | |
| 5263 | 20WS-0300-SO5263-N-051220 | 5/12/2020 | 1445 | 0300 | Tom Haney | 5.82 | 1 | | | | | | Grab | None | None | | |
| 5264 | 20WS-0300-SO5264-N-051220 | 5/12/2020 | 1500 | 0300 | Tom Haney | 7.22 | 1 | 1 | | | | | 5-point | Moderate | None | | 20WS-0300-SO5264-N-051220 |
| 5265 | 20WS-0300-SO5265-N-051220 | 5/12/2020 | 1510 | 0300 | Tom Haney | 5.67 | 1 | | | | | | 5-point | High | Low | | |
| 5266 | 20WS-0300-SO5266-N-051220 | 5/12/2020 | 1520 | 0300 | Tom Haney | 7.10 | 1 | | | | | | 10-point | Moderate | Low | | |
| 5267 | 20WS-0299-SO5267-N-051220 | 5/12/2020 | 1550 | 0299 | Fredonia | 8.27 | | | | | | | Grab | Low | Low | | |
| 5268 | 20WS-0288-SO5268-N-051320 | 5/13/2020 | 0900 | 0288 | Nettie | NA | | | | | | | NA | None | None | Well vegetated dump | |
| 5269 | 20WS-0288-SO5269-N-051320 | 5/13/2020 | 0910 | 0288 | Nettie | 6.96 | | | | | | | 5-point | Low | Low | | |
| 5270 | 20WS-0288-SO5270-N-051320 | 5/13/2020 | 0915 | 0288 | Nettie | 6.59 | | | | | | | Grab | High | Low | | |
| 5271 | 20WS-0288-SO5271-N-051320 | 5/13/2020 | 0930 | 0288 | Nettie | NA | | | | | | | NA | None | None | | |
| 5272 | 20WS-0288-SO5272-N-051320 | 5/13/2020 | 0940 | 0288 | Nettie | 5.62 | | | | | | | Grab | Low | Low | | |
| 5273 | 20WS-0288-SO5273-N-051320 | 5/13/2020 | 0945 | 0288 | Nettie | 7.32 | | | | | | | Grab | Low | Low | | |
| 5274 | 20WS-0288-SO5274-N-051320 | 5/13/2020 | 0955 | 0288 | Nettie | 5.52 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5275 | 20WS-0288-SO5275-N-051320 | 5/13/2020 | 1005 | 0288 | Nettie | 5.18 | | | | | | | Grab | High | Moderate | | |
| 5276 | 20WS-0288-SO5276-N-051320 | 5/13/2020 | 1010 | 0288 | Nettie | 4.67 | 1 | 1 | | | | | 10-point | High | None | | 20WS-0288-SO5276-N-051320 |
| 5277 | 20WS-0288-SO5277-N-051320 | 5/13/2020 | 1025 | 0288 | Nettie | 5.43 | | | | | | | Grab | Moderate | None | | |
| 5278 | 20WS-0288-SO5278-N-051320 | 5/13/2020 | 1030 | 0288 | Nettie | 5.15 | 1 | | | | | | Grab | High | None | | |
| 5279 | 20WS-0288-SO5279-N-051320 | 5/13/2020 | 1040 | 0288 | Nettie | 8.37 | | | | | | | 5-point | Low | Low | | |
| 5280 | 20WS-0288-SO5280-N-051320 | 5/13/2020 | 1045 | 0288 | Nettie | 6.04 | 1 | | | | | | 5-point | Low | Low | | |
| 5281 | 20WS-0288-SO5281-N-051320 | 5/13/2020 | 1055 | 0288 | Nettie | 5.38 | 1 | | | | | | 5-point | Low | Moderate | Slag present | |
| 5282 | 20WS-0299-SO5282-N-051320 | 5/13/2020 | 1130 | 0299 | Fredonia | 8.49 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5283 | 20WS-0299-SO5283-N-051320 | 5/13/2020 | 1145 | 0299 | Fredonia | 8.96 | | | | | | | Grab | Moderate | Moderate | | |
| 5284 | 20WS-0299-SO5284-N-051320 | 5/13/2020 | 1150 | 0299 | Fredonia | 8.63 | | | | | | | Grab | Moderate | Moderate | | |
| 5285 | 20WS-0300-SO5285-N-051320 | 5/13/2020 | 1200 | 0300 | Tom Haney | 6.11 | 1 | 1 | | | | | 5-point | High | Low | | 20WS-0300-SO5285-N-051320 |
| 5286 | 20WS-0300-SO5286-N-051320 | 5/13/2020 | 1210 | 0300 | Tom Haney | 8.96 | | | | | | | 5-point | Low | Moderate | | |
| 5287 | 20WS-0297-SO5287-N-051320 | 5/13/2020 | 1300 | 0297 | Key West | 5.60 | | | | | 1 | | 30-point | None | None | | 20WS-0297-SO5287-N-051320 |
| 5288 | 20WS-0300-SO5288-N-051320 | 5/13/2020 | 1325 | 0300 | Tom Haney | 7.20 | 1 | | | | | | Grab | Moderate | Moderate | | |
| 5289 | 20WS-0300-SO5289-N-051320 | 5/13/2020 | 1335 | 0300 | Tom Haney | 5.96 | | | | | | | Grab | Low | None | | |
| 5290 | 20WS-0300-SO5290-N-051320 | 5/13/2020 | 1345 | 0300 | Tom Haney | 6.06 | 1 | | | | | | 5-point | Low | Low | | |
| 5291 | 20WS-0298-SO5291-N-051320 | 5/13/2020 | 1355 | 0298 | Cora No. 2 | 8.87 | | | | | | | Grab | Low | None | | |
| 5292 | 20WS-0298-SO5292-N-051320 | 5/13/2020 | 1405 | 0298 | Cora No. 2 | 5.62 | 1 | | | | | | 5-point | High | Low | | |
| 5293 | 20WS-0298-SO5293-N-051320 | 5/13/2020 | 1415 | 0298 | Cora No. 2 | 4.77 | 1 | | | | | | 5-point | Moderate | Low | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|--------------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|------------------|--|
| 5294 | 20WS-0298-SO5294-N-051320 | 5/13/2020 | 1420 | 0298 | Cora No. 2 | 5.03 | | | | | | | Grab | Low | Low | | |
| 5295 | 20WS-0298-SO5295-N-051320 | 5/13/2020 | 1435 | 0298 | Cora No. 2 | 8.71 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5296 | 20WS-0298-SO5296-N-051320 | 5/13/2020 | 1450 | 0298 | Cora No. 2 | 6.34 | | 1 | | | | | 5-point | Low | None | | 20WS-0298-SO5296-N-051320 |
| 5297 | 20WS-0299-SO5297-N-051320 | 5/13/2020 | 1500 | 0299 | Fredonia | 8.73 | | | | | | | Grab | Low | Low | | |
| 5298 | 20WS-0298-SO5298-N-051320 | 5/13/2020 | 1510 | 0298 | Cora No. 2 | 5.63 | | 1 | 1 | 1 | | | 5-point | None | None | | 20WS-0298-SO5298-N-051320 |
| 5299 | 20WS-0299-SO5299-N-051320 | 5/13/2020 | 1605 | 0299 | Fredonia | 9.13 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5300 | 20WS-0299-SO5300-N-051320 | 5/13/2020 | 1620 | 0299 | Fredonia | 8.22 | | | | | | | Grab | Low | Low | | |
| 5301 | 20WS-0299-SO5301-N-051320 | 5/13/2020 | 1630 | 0299 | Fredonia | 6.82 | 1 | | | | | | 5-point | High | None | | |
| 5302 | 20WS-0299-SO5302-N-051320 | 5/13/2020 | 1635 | 0299 | Fredonia | 7.37 | | | | | | | Grab | Moderate | Moderate | | |
| 5303 | 20WS-0299-SO5303-N-051320 | 5/13/2020 | 1640 | 0299 | Fredonia | 8.96 | | | | | | | Grab | None | None | | |
| 5304 | 20WS-0299-SO5304-N-051320 | 5/13/2020 | 1650 | 0299 | Fredonia | 5.66 | | | | | 1 | | 30-point | None | None | | 20WS-0299-SO5304-N-051320 |
| 5305 | 20WS-0285-SO5305-N-051420 | 5/14/2020 | 0845 | 0285 | Burlington | 6.19 | 1 | | | | | | 10-point | Low | Moderate | | |
| 5306 | 20WS-0285-SO5306-N-051420 | 5/14/2020 | 0900 | 0285 | Burlington | 5.98 | | | | | | | 5-point | Moderate | None | | |
| 5307 | 20WS-0285-SO5307-N-051420 | 5/14/2020 | 0905 | 0285 | Burlington | 5.78 | | | | | | | 5-point | None | None | | |
| 5308 | 20WS-0285-SO5308-N-051420 | 5/14/2020 | 0915 | 0285 | Burlington | 4.87 | 1 | | | | | | 5-point | Low | High | | |
| 5309 | 20WS-0285-SO5309-N-051420 | 5/14/2020 | 0925 | 0285 | Burlington | 4.54 | | | | | | | Grab | High | Low | | |
| 5310 | 20WS-0285-SO5310-N-051420 | 5/14/2020 | 0930 | 0285 | Burlington | 5.43 | | | | | | | 10-point | Low | None | | |
| 5311 | 20WS-0285-SO5311-N-051420 | 5/14/2020 | 0940 | 0285 | Burlington | 5.11 | 1 | | | | | | 10-point | Low | None | | |
| 5312 | 20WS-0285-SO5312-N-051420 | 5/14/2020 | 0955 | 0285 | Burlington | 5.90 | 1 | | | | | | Grab | None | None | | |
| 5313 | 20WS-0285-SO5313-N-051420 | 5/14/2020 | 1010 | 0285 | Burlington | 6.23 | | 1 | | | | | 6-point | High | Low | | 20WS-0285-SO5313-N-051420 |
| 5314 | 20WS-0285-SO5314-N-051420 | 5/14/2020 | 1015 | 0285 | Burlington | 5.28 | 1 | | | | | | 5-point | Low | None | | |
| 5315 | 20WS-0285-SO5315-N-051420 | 5/14/2020 | 1025 | 0285 | Burlington | 5.16 | | | | | | | Grab | Low | None | | |
| 5316 | 20WS-0285-SO5316-N-051420 | 5/14/2020 | 1030 | 0285 | Burlington | 4.92 | 1 | | | | | | 5-point | High | Moderate | | |
| 5317 | 20WS-0285-SO5317-N-051420 | 5/14/2020 | 1035 | 0285 | Burlington | 5.37 | | | | | | | Grab | Low | High | | |
| 5318 | 20WS-0285-SO5318-N-051420 | 5/14/2020 | 1050 | 0285 | Burlington | 5.06 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5319 | 20WS-0285-SO5319-N-051420 | 5/14/2020 | 1055 | 0285 | Burlington | 5.13 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5320 | 20WS-0285-SO5320-N-051420 | 5/14/2020 | 1100 | 0285 | Burlington | 4.19 | | | | | | | Grab | Moderate | Low | | |
| 5321 | 20WS-0285-SO5321-N-051420 | 5/14/2020 | 1105 | 0285 | Burlington | 5.85 | 1 | | | | | | Grab | Moderate | Moderate | | |
| 5322 | 20WS-0285-SO5322-N-051420 | 5/14/2020 | 1115 | 0285 | Burlington | 5.24 | 1 | | | | | | 5-point | Low | High | | |
| 5323 | 20WS-0285-SO5323-N-051420 | 5/14/2020 | 1120 | 0285 | Burlington | 5.17 | | 1 | | | | | 5-point | Moderate | Low | | 20WS-0285-SO5323-N-051420 |
| 5324 | 20WS-0285-SO5324-N-051420 | 5/14/2020 | 1130 | 0285 | Burlington | 5.75 | 1 | 1 | | | | | 5-point | High | Low | | 20WS-0285-SO5324-N-051420 |
| 5325 | 20WS-0285-SO5325-N-051420 | 5/14/2020 | 1140 | 0285 | Burlington | 6.24 | | | | | | | Grab | High | Low | | |
| 5326 | 20WS-0285-SO5326-N-051420 | 5/14/2020 | 1245 | 0285 | Burlington | 5.23 | 1 | | | | | | 5-point | Low | None | | |
| 5327 | 20WS-0285-SO5327-N-051420 | 5/14/2020 | 1300 1330 | 0285 | Burlington | 5.06 | | 2 | | | | | 5-point | Low | Moderate | Metals Duplicate | 20WS-0285-SO5327-N-051420 20WS-0285-SO5327-D-051420 |
| 5328 | 20WS-0285-SO5328-N-051420 | 5/14/2020 | 1310 | 0285 | Burlington | 5.35 | | | | | | | Grab | Moderate | Moderate | | |
| 5329 | 20WS-0285-SO5329-N-051420 | 5/14/2020 | 1315 | 0285 | Burlington | 4.75 | 1 | | | | | | Grab | Moderate | Moderate | | |
| 5330 | 20WS-0285-SO5330-N-051420 | 5/14/2020 | 1325 | 0285 | Burlington | 4.98 | | | | | | | Grab | Low | Low | | |
| 5331 | 20WS-0285-SO5331-N-051420 | 5/14/2020 | 1330 | 0285 | Burlington | 4.75 | | | | | | | Grab | Moderate | Moderate | | |
| 5332 | 20WS-0285-SO5332-N-051420 | 5/14/2020 | 1335 | 0285 | Burlington | 5.57 | | | | | | | Grab | Low | High | | |
| 5333 | 20WS-0285-SO5333-N-051420 | 5/14/2020 | 1340 | 0285 | Burlington | 6.15 | 1 | | | | | | 5-point | High | Low | | |
| 5334 | 20WS-0285-SO5334-N-051420 | 5/14/2020 | 1350 | 0285 | Burlington | 4.97 | 1 | | | | | | 10-point | Moderate | None | | |
| 5335 | 20WS-0285-SO5335-N-051420 | 5/14/2020 | 1415 | 0285 | Burlington | 4.88 | | | | | 1 | | 30-point | Moderate | None | | 20WS-0285-SO5335-N-051420 |
| 5336 | 20WS-0285-SO5336-N-051420 | 5/14/2020 | 1430 | 0285 | Burlington | 5.51 | 1 | | | | | | 10-point | High | Low | | |
| 5337 | 20WS-0285-SO5337-N-051420 | 5/14/2020 | 1440 | 0285 | Burlington | 5.15 | 1 | | | | | | 5-point | Moderate | None | | |
| 5338 | 20WS-0285-SO5338-N-051420 | 5/14/2020 | 1445 | 0285 | Burlington | 7.92 | | | | | | | Grab | Low | Moderate | | |
| 5339 | 20WS-0285-SO5339-N-051420 | 5/14/2020 | 1455 | 0285 | Burlington | 5.82 | | | | | | | Grab | Moderate | Low | | |
| 5340 | 20WS-0285-SO5340-N-051420 | 5/14/2020 | 1505 | 0285 | Burlington | 6.97 | 1 | | | | | | 5-point | Low | Low | | |
| 5341 | 20WS-0285-SO5341-N-051420 | 5/14/2020 | 1515 | 0285 | Burlington | 5.71 | | 1 | | | | | 5-point | Moderate | Low | | 20WS-0285-SO5341-N-051420 |
| 5342 | 20WS-0299-SO5342-N-051820 | 5/18/2020 | 0900 | 0299 | Fredonia | 6.14 | 1 | | | | | | 5-point | Moderate | Low | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|---------|---------------------------|
| 5343 | 20WS-0299-SO5343-N-051820 | 5/18/2020 | 0910 | 0299 | Fredonia | 5.36 | | | | | | | Grab | Low | None | | |
| 5344 | 20WS-0285-SO5344-N-051820 | 5/18/2020 | 0920 | 0285 | Burlington | 5.28 | | | | | | | Grab | Low | Moderate | | |
| 5345 | 20WS-0285-SO5345-N-051820 | 5/18/2020 | 0925 | 0285 | Burlington | 5.80 | 1 | | | | | | Grab | Low | Low | | |
| 5346 | 20WS-0285-SO5346-N-051820 | 5/18/2020 | 0940 | 0285 | Burlington | 7.13 | | | | | | | Grab | Moderate | Moderate | | |
| 5347 | 20WS-0285-SO5347-N-051820 | 5/18/2020 | 0950 | 0285 | Burlington | 5.51 | | 1 | | | | | 10-point | Moderate | Low | | 20WS-0285-SO5347-N-051820 |
| 5348 | 20WS-0285-SO5348-N-051820 | 5/18/2020 | 0955 | 0285 | Burlington | 5.28 | | | | | | | Grab | Moderate | None | | |
| 5349 | 20WS-0285-SO5349-N-051820 | 5/18/2020 | 1005 | 0285 | Burlington | 6.69 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5350 | 20WS-0285-SO5350-N-051820 | 5/18/2020 | 1015 | 0285 | Burlington | 6.84 | | | | | | | Grab | High | Low | | |
| 5351 | 20WS-0285-SO5351-N-051820 | 5/18/2020 | 1025 | 0285 | Burlington | 5.24 | | | | | | | Grab | Low | None | | |
| 5352 | 20WS-0285-SO5352-N-051820 | 5/18/2020 | 1035 | 0285 | Burlington | NA | | | | | | | NA | Low | None | Bedrock | |
| 5353 | 20WS-0299-SO5353-N-051820 | 5/18/2020 | 1045 | 0299 | Fredonia | 9.15 | | | | | | | Grab | Low | Low | | |
| 5354 | 20WS-0285-SO5354-N-051820 | 5/18/2020 | 1110 | 0285 | Burlington | 5.40 | 1 | | | | | | 5-point | None | Low | | |
| 5355 | 20WS-0285-SO5355-N-051820 | 5/18/2020 | 1120 | 0285 | Burlington | 5.47 | 1 | 1 | | | | | 5-point | High | Low | | 20WS-0285-SO5355-N-051820 |
| 5356 | 20WS-0285-SO5356-N-051820 | 5/18/2020 | 1130 | 0285 | Burlington | 5.63 | | | | | | | Grab | None | None | | |
| 5357 | 20WS-0285-SO5357-N-051820 | 5/18/2020 | 1135 | 0285 | Burlington | 4.56 | 1 | | | | | | Grab | Moderate | Low | | |
| 5358 | 20WS-0285-SO5358-N-051820 | 5/18/2020 | 1140 | 0285 | Burlington | 5.38 | | | | | | | Grab | Low | None | | |
| 5359 | 20WS-0285-SO5359-N-051820 | 5/18/2020 | 1150 | 0285 | Burlington | 6.02 | | | | | | | Grab | High | None | | |
| 5360 | 20WS-0285-SO5360-N-051820 | 5/18/2020 | 1245 | 0285 | Burlington | 5.69 | | | | | | | Grab | High | Low | | |
| 5361 | 20WS-0285-SO5361-N-051820 | 5/18/2020 | 1250 | 0285 | Burlington | 6.00 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5362 | 20WS-0285-SO5362-N-051820 | 5/18/2020 | 1255 | 0285 | Burlington | NA | | | | | | | NA | Low | Low | Bedrock | |
| 5363 | 20WS-0285-SO5363-N-051820 | 5/18/2020 | 1305 | 0285 | Burlington | NA | | | | | | | NA | Low | None | Bedrock | |
| 5364 | 20WS-0285-SO5364-N-051820 | 5/18/2020 | 1315 | 0285 | Burlington | 6.04 | | | | | | | Grab | None | Low | | |
| 5365 | 20WS-0285-SO5365-N-051820 | 5/18/2020 | 1325 | 0285 | Burlington | 6.05 | | | | | | | Grab | None | None | | |
| 5366 | 20WS-0285-SO5366-N-051820 | 5/18/2020 | 1335 | 0285 | Burlington | 9.34 | | | | | | | Grab | Low | None | | |
| 5367 | 20WS-0285-SO5367-N-051820 | 5/18/2020 | 1340 | 0285 | Burlington | NA | | | | | | | NA | Low | Low | Bedrock | |
| 5368 | 20WS-0285-SO5368-N-051820 | 5/18/2020 | 1350 | 0285 | Burlington | 5.37 | | | | | | | Grab | None | None | | |
| 5369 | 20WS-0285-SO5369-N-051820 | 5/18/2020 | 1400 | 0285 | Burlington | 5.82 | 1 | | | | | | 5-point | None | None | | |
| 5370 | 20WS-0246-SO5370-N-051820 | 5/18/2020 | 1425 | 0246 | Independent | 5.53 | | 1 | | | | | 10-point | High | Low | | 20WS-0246-SO5370-N-051820 |
| 5371 | 20WS-0285-SO5371-N-051820 | 5/18/2020 | 1430 | 0246 | Burlington | 5.03 | | | | | | | Grab | Moderate | Moderate | | |
| 5372 | 20WS-0246-SO5372-N-051820 | 5/18/2020 | 1440 | 0246 | Independent | 4.95 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5373 | 20WS-0246-SO5373-N-051820 | 5/18/2020 | 1445 | 0246 | Independent | 3.03 | 1 | | | | | | 5-point | None | Low | | |
| 5374 | 20WS-0246-SO5374-N-051820 | 5/18/2020 | 1450 | 0246 | Independent | 5.36 | | | | | | | Grab | Low | None | | |
| 5375 | 20WS-0285-SO5375-N-051820 | 5/18/2020 | 1455 | 0246 | Burlington | 7.01 | | | | | | | Grab | None | None | | |
| 5376 | 20WS-0246-SO5376-N-051820 | 5/18/2020 | 1500 | 0246 | Independent | 5.30 | 1 | | | | | | 5-Point | Moderate | Low | | |
| 5377 | 20WS-0246-SO5377-N-051820 | 5/18/2020 | 1510 | 0246 | Independent | 3.66 | 1 | | | | | | 5-Point | None | Moderate | | |
| 5378 | 20WS-0246-SO5378-N-051820 | 5/18/2020 | 1515 | 0246 | Independent | 5.83 | | 1 | 1 | 1 | | | 5-Point | High | Low | | 20WS-0246-SO5378-N-051820 |
| 5379 | 20WS-0246-SO5379-N-051820 | 5/18/2020 | 1530 | 0246 | Independent | 5.94 | | | | | | | Grab | High | Low | | |
| 5380 | 20WS-0246-SO5380-N-051820 | 5/18/2020 | 1535 | 0246 | Independent | 5.49 | | | | | | | Grab | Moderate | Low | | |
| 5381 | 20WS-0246-SO5381-N-051820 | 5/18/2020 | 1540 | 0246 | Independent | 5.61 | | | | | | | Grab | High | Low | | |
| 5382 | 20WS-0246-SO5382-N-051820 | 5/18/2020 | 1545 | 0246 | Independent | 6.35 | | | | | 1 | | 30-Point | High | Low | | 20WS-0246-SO5382-N-051820 |
| 5383 | 20WS-0246-SO5383-N-051820 | 5/18/2020 | 1550 | 0246 | Independent | 5.62 | 1 | | | | | | 5-Point | Low | None | | |
| 5384 | 20WS-0246-SO5384-N-051820 | 5/18/2020 | 1600 | 0246 | Independent | 4.16 | 1 | | | | | | 5-Point | Moderate | Low | | |
| 5385 | 20WS-0246-SO5385-N-051920 | 5/19/2020 | 1105 | 0246 | Independent | 5.26 | | | | | | | Grab | High | Low | | |
| 5386 | 20WS-0246-SO5386-N-051920 | 5/19/2020 | 1110 | 0246 | Independent | 6.73 | 1 | | | | | | 5-point | High | Low | | |
| 5387 | 20WS-0246-SO5387-N-051920 | 5/19/2020 | 1115 | 0246 | Independent | 5.60 | | | | | | | Grab | High | Low | | |
| 5388 | 20WS-0246-SO5388-N-051920 | 5/19/2020 | 1120 | 0246 | Independent | 6.41 | | | | | | | Grab | High | Low | | |
| 5389 | 20WS-0246-SO5389-N-051920 | 5/19/2020 | 1130 | 0246 | Independent | 6.36 | | 1 | | | | | 5-point | High | Low | | 20WS-0246-SO5389-N-051920 |
| 5390 | 20WS-0246-SO5390-N-051920 | 5/19/2020 | 1135 | 0246 | Independent | 7.00 | | | | | | | 5-point | High | Low | | |
| 5391 | 20WS-0246-SO5391-N-051920 | 5/19/2020 | 1145 | 0246 | Independent | 6.27 | 1 | | | | | | 10-point | High | Low | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|--------------------------|---------------------------|
| 5392 | 20WS-0246-SO5392-N-051920 | 5/19/2020 | 1150 | 0246 | Independent | 5.87 | | | | | | | 5-point | High | Low | | |
| 5393 | 20WS-0246-SO5393-N-051920 | 5/19/2020 | 1205 | 0246 | Independent | NA | | | | | | | NA | NR | NR | Well vegetated dump | |
| 5394 | 20WS-0246-SO5394-N-051920 | 5/19/2020 | 1210 | 0246 | Independent | 5.10 | | | | | | | Grab | None | None | | |
| 5395 | 20WS-0246-SO5395-N-051920 | 5/19/2020 | 1230 | 0246 | Independent | 7.88 | | | | | | | Grab | None | None | | |
| 5396 | 20WS-0246-SO5396-N-051920 | 5/19/2020 | 1255 | 0246 | Independent | 6.10 | 1 | | | | | | 5-point | High | Low | | |
| 5397 | 20WS-0246-SO5397-N-051920 | 5/19/2020 | 1305 | 0246 | Independent | 6.29 | 1 | | | | | | 5-point | Low | None | | |
| 5398 | 20WS-0246-SO5398-N-051920 | 5/19/2020 | 1315 | 0246 | Independent | 6.62 | | | | | | | Grab | Moderate | Moderate | | |
| 5399 | 20WS-0246-SO5399-N-051920 | 5/19/2020 | 1320 | 0246 | Independent | 5.74 | | | | | | | Grab | High | Low | | |
| 5400 | 20WS-0246-SO5400-N-051920 | 5/19/2020 | 1330 | 0246 | Independent | 5.48 | 1 | | | | | | 5-point | High | Low | | |
| 5401 | 20WS-0256-SO5401-N-051920 | 5/19/2020 | 1430 | 0256 | Haakon | 6.70 | | | | | | | Grab | Low | Low | | |
| 5402 | 20WS-0256-SO5402-N-051920 | 5/19/2020 | 1440 | 0256 | Haakon | 7.14 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5403 | 20WS-0256-SO5403-N-051920 | 5/19/2020 | 1445 | 0256 | Haakon | 6.09 | | 1 | | | | | 5-point | None | Low | | 20WS-0256-SO5403-N-051920 |
| 5404 | 20WS-0249-SO5404-N-052020 | 5/20/2020 | 1100 | 0249 | Fair View | 6.37 | | | | | | | Grab | None | None | | |
| 5405 | 20WS-0249-SO5405-N-052020 | 5/20/2020 | 1120 | 0249 | Fair View | NA | | | | | | | NA | NR | NR | Heavy grass, Borrow Area | |
| 5406 | 20WS-0249-SO5406-N-052020 | 5/20/2020 | 1135 | 0249 | Fair View | 5.64 | | | | | 1 | | 30-Point | None | None | | 20WS-0249-SO5406-N-052020 |
| 5407 | 20WS-0249-SO5407-N-052020 | 5/20/2020 | 1240 | 0249 | Fair View | 5.98 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5408 | 20WS-0249-SO5408-N-052020 | 5/20/2020 | 1250 | 0249 | Fair View | 4.93 | | | | | | | Grab | Low | Moderate | | |
| 5409 | 20WS-0249-SO5409-N-052020 | 5/20/2020 | 1255 | 0249 | Fair View | 5.26 | | 1 | | | | | 5-point | Low | Moderate | | 20WS-0249-SO5409-N-052020 |
| 5410 | 20WS-0249-SO5410-N-052020 | 5/20/2020 | 1305 | 0249 | Fair View | 6.44 | | | | | | | Grab | Low | Moderate | | |
| 5411 | 20WS-0249-SO5411-N-052020 | 5/20/2020 | 1310 | 0249 | Fair View | 6.87 | 1 | | | | | | Grab | Low | Low | | |
| 5412 | 20WS-0249-SO5412-N-052020 | 5/20/2020 | 1320 | 0249 | Fair View | 5.69 | 1 | | | | | | 5-point | Low | Low | | |
| 5413 | 20WS-0249-SO5413-N-052020 | 5/20/2020 | 1335 | 0249 | Fair View | 5.89 | | | | | | | Grab | None | None | | |
| 5414 | 20WS-0249-SO5414-N-052020 | 5/20/2020 | 1345 | 0249 | Fair View | 5.51 | | | | | | | Grab | None | None | | |
| 5415 | 20WS-0249-SO5415-N-052020 | 5/20/2020 | 1350 | 0249 | Fair View | NA | | | | | | | NA | Low | Low | Bedrock | |
| 5416 | 20WS-0249-SO5416-N-052020 | 5/20/2020 | 1400 | 0249 | Fair View | 5.54 | | | | | | | Grab | Moderate | Low | | |
| 5417 | 20WS-0249-SO5417-N-052020 | 5/20/2020 | 1405 | 0249 | Fair View | NA | | | | | | | NA | Low | Low | Bedrock | |
| 5418 | 20WS-0249-SO5418-N-052020 | 5/20/2020 | 1425 | 0249 | Fair View | 8.63 | 1 | | | | | | 5-point | None | Low | | |
| 5419 | 20WS-0249-SO5419-N-052020 | 5/20/2020 | 1450 | 0249 | Fair View | 5.76 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5420 | 20WS-0249-SO5420-N-052020 | 5/20/2020 | 1455 | 0249 | Fair View | 6.97 | | | | | | | Grab | Moderate | Low | | |
| 5421 | 20WS-0306-SO5421-N-052020 | 5/20/2020 | 1540 | 0306 | Herbert | 6.15 | 1 | | | | | | Grab | None | Low | | |
| 5422 | 20WS-0306-SO5422-N-052020 | 5/20/2020 | 1550 | 0306 | Herbert | 6.08 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5423 | 20WS-0306-SO5423-N-052020 | 5/20/2020 | 1605 | 0306 | Herbert | 5.86 | | | | | | | Grab | None | None | | |
| 5424 | 20WS-0306-SO5424-N-052020 | 5/20/2020 | 1615 | 0306 | Herbert | 5.29 | | | | | | | Grab | None | Moderate | | |
| 5425 | 20WS-0306-SO5425-N-052020 | 5/20/2020 | 1620 | 0306 | Herbert | NA | | | | | | | NA | Low | None | Bedrock | |
| 5426 | 20WS-0016-SO5426-N-052120 | 5/21/2020 | 1205 | 0016 | Orphan Boy | 5.78 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5427 | 20WS-0016-SO5427-N-052120 | 5/21/2020 | 1215 | 0016 | Orphan Boy | 8.07 | | | | | | | Grab | Low | Moderate | | |
| 5428 | 20WS-0016-SO5428-N-052120 | 5/21/2020 | 1220 | 0016 | Orphan Boy | 7.50 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5429 | 20WS-0016-SO5429-N-052120 | 5/21/2020 | 1230 | 0016 | Orphan Boy | 4.00 | | | | | | | Grab | High | High | | |
| 5430 | 20WS-0016-SO5430-N-052120 | 5/21/2020 | 1240 | 0016 | Orphan Boy | 8.72 | 1 | | | | | | 10-point | Low | Low | | |
| 5431 | 20WS-0016-SO5431-N-052120 | 5/21/2020 | 1245 | 0016 | Orphan Boy | 8.86 | | | | | | | Grab | Low | Low | | |
| 5432 | 20WS-0016-SO5432-N-052120 | 5/21/2020 | 1300 | 0016 | Orphan Boy | 7.82 | | | | | | | Grab | Low | Moderate | | |
| 5433 | 20WS-0016-SO5433-N-052120 | 5/21/2020 | 1345 | 0016 | Orphan Boy | 8.58 | | | | | | | 5-point | Low | Low | | |
| 5434 | 20WS-0016-SO5434-N-052120 | 5/21/2020 | 1355 | 0016 | Orphan Boy | 7.12 | | 1 | | | | | 10-point | Low | Low | | 20WS-0016-SO5434-N-052120 |
| 5435 | 20WS-0016-SO5435-N-052120 | 5/21/2020 | 1415 | 0016 | Orphan Boy | 7.07 | | | | | | | Grab | Low | High | | |
| 5436 | 20WS-0016-SO5436-N-052120 | 5/21/2020 | 1420 | 0016 | Orphan Boy | 8.46 | | | | | | | Grab | Low | None | | |
| 5437 | 20WS-0016-SO5437-N-052120 | 5/21/2020 | 1425 | 0016 | Orphan Boy | 6.19 | 1 | | | | | | 5-point | High | Low | | |
| 5438 | 20WS-0015-SO5438-N-052120 | 5/21/2020 | 1435 | 0015 | Milwaukee | 5.14 | 1 | | | | | | 10-point | Moderate | Low | | |
| 5439 | 20WS-0013-SO5439-N-052120 | 5/21/2020 | 1445 | 0013 | Georgie | 6.34 | 1 | 1 | | | | | 5-point | Low | Low | | 20WS-0013-SO5439-N-052120 |
| 5440 | 20WS-0014-SO5440-N-052120 | 5/21/2020 | 1500 | 0014 | Cuneate | 8.56 | | | | | | | 10-point | Low | Low | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|---------|---------------------------|
| 5441 | 20WS-0016-SO5441-N-052120 | 5/21/2020 | 1515 | 0016 | Orphan Boy | 8.55 | | | | | | | Grab | None | Moderate | | |
| 5442 | 20WS-0013-SO5442-N-052120 | 5/21/2020 | 1535 | 0013 | Georgie | 6.55 | | | | | | | Grab | High | Moderate | | |
| 5443 | 20WS-0013-SO5443-N-052120 | 5/21/2020 | 1540 | 0013 | Georgie | 5.64 | 1 | | | | | | 5-point | Low | Low | | |
| 5444 | 20WS-0013-SO5444-N-052120 | 5/21/2020 | 1545 | 0013 | Georgie | 4.51 | | | | | | | Grab | Moderate | Low | | |
| 5445 | 20WS-0013-SO5445-N-052120 | 5/21/2020 | 1550 | 0013 | Georgie | 3.44 | | | | | | | Grab | Low | High | | |
| 5446 | 20WS-0013-SO5446-N-052120 | 5/21/2020 | 1555 | 0013 | Georgie | 8.63 | | | | | | | Grab | Low | Low | | |
| 5447 | 20WS-0013-SO5447-N-052120 | 5/21/2020 | 1600 | 0013 | Georgie | 4.05 | 1 | | | | | | 10-point | High | Moderate | | |
| 5448 | 20WS-0013-SO5448-N-052120 | 5/21/2020 | 1615 | 0013 | Georgie | 3.03 | | 1 | | | | | 10-point | Low | High | | 20WS-0013-SO5448-N-052120 |
| 5449 | 20WS-0013-SO5449-N-052120 | 5/21/2020 | 1625 | 0013 | Georgie | 6.27 | | | | | | | Grab | High | Low | | |
| 5450 | 20WS-0013-SO5450-N-052120 | 5/21/2020 | 1630 | 0013 | Georgie | 2.61 | | | | | | | Grab | Moderate | High | | |
| 5451 | 20WS-0315-SO5451-N-052620 | 5/26/2020 | 0910 | 0315 | Garibaldi | 4.82 | | | | | | | Grab | None | None | | |
| 5452 | 20WS-0315-SO5452-N-052620 | 5/26/2020 | 0915 | 0315 | Garibaldi | 5.43 | | | | | | | Grab | Low | Low | | |
| 5453 | 20WS-0315-SO5453-N-052620 | 5/26/2020 | 0925 | 0315 | Garibaldi | 5.56 | 1 | | | | | | 5-point | Low | Low | | |
| 5454 | 20WS-0315-SO5454-N-052620 | 5/26/2020 | 0930 | 0315 | Garibaldi | 4.39 | 1 | | | | | | 5-point | Low | Low | | |
| 5455 | 20WS-0315-SO5455-N-052620 | 5/26/2020 | 0945 | 0315 | Garibaldi | 5.49 | | 1 | | | | | 10-point | Low | Low | | 20WS-0315-SO5455-N-052620 |
| 5456 | 20WS-0315-SO5456-N-052620 | 5/26/2020 | 0955 | 0315 | Garibaldi | 6.45 | | | | | | | Grab | Low | Low | | |
| 5457 | 20WS-0315-SO5457-N-052620 | 5/26/2020 | 1000 | 0315 | Garibaldi | 8.74 | | | | | | | Grab | Low | Low | | |
| 5458 | 20WS-0315-SO5458-N-052620 | 5/26/2020 | 1005 | 0315 | Garibaldi | 8.99 | | | | | | | Grab | None | None | | |
| 5459 | 20WS-0315-SO5459-N-052620 | 5/26/2020 | 1015 | 0315 | Garibaldi | 7.35 | 1 | | | | | | 5-point | Low | Low | | |
| 5460 | 20WS-0315-SO5460-N-052620 | 5/26/2020 | 1025 | 0315 | Garibaldi | 8.93 | 1 | | | | | | Grab | None | None | | |
| 5461 | 20WS-0315-SO5461-N-052620 | 5/26/2020 | 1035 | 0315 | Garibaldi | 8.75 | | | | | | | 5-point | Low | Low | | |
| 5462 | 20WS-0315-SO5462-N-052620 | 5/26/2020 | 1050 | 0315 | Garibaldi | 5.78 | | | | | | | Grab | None | None | | |
| 5463 | 20WS-0315-SO5463-N-052620 | 5/26/2020 | 1055 | 0315 | Garibaldi | 5.39 | | | | | | | Grab | Moderate | Low | | |
| 5464 | 20WS-0315-SO5464-N-052620 | 5/26/2020 | 1100 | 0315 | Garibaldi | 5.41 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5465 | 20WS-0315-SO5465-N-052620 | 5/26/2020 | 1105 | 0315 | Garibaldi | 8.20 | | | | | | | Grab | None | Low | | |
| 5466 | 20WS-0315-SO5466-N-052620 | 5/26/2020 | 1115 | 0315 | Garibaldi | 9.01 | | | | | | | Grab | Low | Low | | |
| 5467 | 20WS-0315-SO5467-N-052620 | 5/26/2020 | 1120 | 0315 | Garibaldi | NA | | | | | | | NA | None | None | Bedrock | |
| 5468 | 20WS-0315-SO5468-N-052620 | 5/26/2020 | 1125 | 0315 | Garibaldi | NA | | | | | | | NA | None | None | Bedrock | |
| 5469 | 20WS-0315-SO5469-N-052620 | 5/26/2020 | 1130 | 0315 | Garibaldi | 5.23 | | | | | | | Grab | Moderate | Low | | |
| 5470 | 20WS-0315-SO5470-N-052620 | 5/26/2020 | 1220 | 0315 | Garibaldi | 6.61 | | | | | | | Grab | Low | Low | | |
| 5471 | 20WS-0315-SO5471-N-052620 | 5/26/2020 | 1240 | 0315 | Garibaldi | 5.35 | 1 | | | | | | 7-point | High | Low | | |
| 5472 | 20WS-0315-SO5472-N-052620 | 5/26/2020 | 1245 | 0315 | Garibaldi | 5.27 | | | | | | | Grab | Low | Low | | |
| 5473 | 20WS-0315-SO5473-N-052620 | 5/26/2020 | 1250 | 0315 | Garibaldi | 6.17 | | | | | | | 5-point | Low | Low | | |
| 5474 | 20WS-0315-SO5474-N-052620 | 5/26/2020 | 1300 | 0315 | Garibaldi | 6.63 | 1 | | | | | | 10-point | Moderate | Low | | |
| 5475 | 20WS-0315-SO5475-N-052620 | 5/26/2020 | 1315 | 0315 | Garibaldi | 5.11 | | | | | | | Grab | Moderate | Low | | |
| 5476 | 20WS-0315-SO5476-N-052620 | 5/26/2020 | 1320 | 0315 | Garibaldi | 4.84 | | | | | | | Grab | High | Low | | |
| 5477 | 20WS-0315-SO5477-N-052620 | 5/26/2020 | 1325 | 0315 | Garibaldi | 5.23 | | | | | | | Grab | Moderate | Low | | |
| 5478 | 20WS-0315-SO5478-N-052620 | 5/26/2020 | 1330 | 0315 | Garibaldi | 6.44 | | | | | | | Grab | Low | Low | | |
| 5479 | 20WS-0315-SO5479-N-052620 | 5/26/2020 | 1335 | 0315 | Garibaldi | 5.15 | 1 | | | | | | 5-point | High | Low | | |
| 5480 | 20WS-0315-SO5480-N-052620 | 5/26/2020 | 1405 | 0315 | Garibaldi | 7.88 | 1 | | | | | | 5-point | None | Low | | |
| 5481 | 20WS-0315-SO5481-N-052620 | 5/26/2020 | 1415 | 0315 | Garibaldi | 5.24 | | | | | | | Grab | Low | Low | | |
| 5482 | 20WS-0315-SO5482-N-052620 | 5/26/2020 | 1420 | 0315 | Garibaldi | 5.30 | | | | | | | Grab | None | Low | | |
| 5483 | 20WS-0315-SO5483-N-052620 | 5/26/2020 | 1425 | 0315 | Garibaldi | 5.41 | | | | | | | 5-point | Low | Low | | |
| 5484 | 20WS-0315-SO5484-N-052620 | 5/26/2020 | 1435 | 0315 | Garibaldi | 5.28 | 1 | | | | | | 5-point | Low | Low | | |
| 5485 | 20WS-0315-SO5485-N-052620 | 5/26/2020 | 1445 | 0315 | Garibaldi | 5.22 | | | | | | | Grab | Moderate | Low | | |
| 5486 | 20WS-0315-SO5486-N-052720 | 5/27/2020 | 0900 | 0315 | Garibaldi | 8.94 | | | | | | | Grab | Low | Low | | |
| 5487 | 20WS-0315-SO5487-N-052720 | 5/27/2020 | 0905 | 0315 | Garibaldi | 8.56 | | | | | | | Grab | None | Moderate | | |
| 5488 | 20WS-0315-SO5488-N-052720 | 5/27/2020 | 0915 | 0315 | Garibaldi | 6.13 | | 1 | | | | | 10-point | Low | Low | | 20WS-0315-SO5488-N-052720 |
| 5489 | 20WS-0315-SO5489-N-052720 | 5/27/2020 | 0930 | 0315 | Garibaldi | 5.87 | | | | | | | Grab | None | None | | |
| 5490 | 20WS-0315-SO5490-N-052720 | 5/27/2020 | 0935 | 0315 | Garibaldi | 5.17 | 1 | | | | | | 5-point | Moderate | Low | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|--------------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|------------------|--|
| 5491 | 20WS-0315-SO5491-N-052720 | 5/27/2020 | 0940 | 0315 | Garibaldi | 5.03 | | | | | | | 5-point | Moderate | Moderate | | |
| 5492 | 20WS-0315-SO5492-N-052720 | 5/27/2020 | 0950 | 0315 | Garibaldi | 4.92 | | | | | | | Grab | High | Low | | |
| 5493 | 20WS-0315-SO5493-N-052720 | 5/27/2020 | 0955 | 0315 | Garibaldi | 5.24 | | | | | | | Grab | Low | Low | | |
| 5494 | 20WS-0315-SO5494-N-052720 | 5/27/2020 | 1000 | 0315 | Garibaldi | 5.23 | | | | | | | Grab | Moderate | None | | |
| 5495 | 20WS-0315-SO5495-N-052720 | 5/27/2020 | 1005 | 0315 | Garibaldi | 5.38 | 1 | | | | | | 5-point | Low | Low | | |
| 5496 | 20WS-0315-SO5496-N-052720 | 5/27/2020 | 1010 | 0315 | Garibaldi | 6.53 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5497 | 20WS-0315-SO5497-N-052720 | 5/27/2020 | 1020 | 0315 | Garibaldi | 5.05 | | | | | | | Grab | Moderate | High | | |
| 5498 | 20WS-0315-SO5498-N-052720 | 5/27/2020 | 1025 | 0315 | Garibaldi | 5.61 | 1 | | | | | | 10-point | None | None | | |
| 5499 | 20WS-0315-SO5499-N-052720 | 5/27/2020 | 1035 | 0315 | Garibaldi | 5.07 | | | | | | | 5-point | Low | Low | | |
| 5500 | 20WS-0315-SO5500-N-052720 | 5/27/2020 | 1040 | 0315 | Garibaldi | NA | | | | | | | NA | None | None | Bedrock | |
| 5501 | 20WS-0315-SO5501-N-052720 | 5/27/2020 | 1045 | 0315 | Garibaldi | 5.62 | | | | | | | Grab | Moderate | Moderate | | |
| 5502 | 20WS-0315-SO5502-N-052720 | 5/27/2020 | 1055 | 0315 | Garibaldi | 5.84 | | | | | | | Grab | Low | High | | |
| 5503 | 20WS-0313-SO5503-N-052720 | 5/27/2020 | 1100 | 0313 | Silver Cleft | 7.36 | | | | | | | Grab | High | Low | | |
| 5504 | 20WS-0313-SO5504-N-052720 | 5/27/2020 | 1110 | 0313 | Silver Cleft | 5.17 | | | | | | | 5-point | Moderate | Low | | |
| 5505 | 20WS-0313-SO5505-N-052720 | 5/27/2020 | 1115 | 0313 | Silver Cleft | 5.88 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5506 | 20WS-0315-SO5506-N-052720 | 5/27/2020 | 1125 | 0315 | Garibaldi | 5.85 | 1 | | | | | | 10-point | None | None | | |
| 5507 | 20WS-0313-SO5507-N-052720 | 5/27/2020 | 1230 | 0313 | Silver Cleft | 8.69 | | | | | | | Grab | Low | Low | | |
| 5508 | 20WS-0313-SO5508-N-052720 | 5/27/2020 | 1235 | 0313 | Silver Cleft | 8.28 | | | | | | | Grab | Low | Low | | |
| 5509 | 20WS-0313-SO5509-N-052720 | 5/27/2020 | 1255 | 0313 | Silver Cleft | 8.57 | | | | | | | Grab | Low | Low | | |
| 5510 | 20WS-0313-SO5510-N-052720 | 5/27/2020 | 1305 | 0313 | Silver Cleft | 7.20 | | | | | | | Grab | Low | Low | | |
| 5511 | 20WS-0313-SO5511-N-052720 | 5/27/2020 | 1310 | 0313 | Silver Cleft | 7.29 | 1 | | | | | | 5-point | Low | Low | | |
| 5512 | 20WS-0315-SO5512-N-052720 | 5/27/2020 | 1320 | 0315 | Garibaldi | 8.21 | | | | | | | Grab | Low | Low | | |
| 5513 | 20WS-0315-SO5513-N-052720 | 5/27/2020 | 1325 | 0315 | Garibaldi | 5.43 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5514 | 20WS-0315-SO5514-N-052720 | 5/27/2020 | 1340 | 0315 | Garibaldi | 7.64 | | | | | 1 | | 30-point | None | None | | 20WS-0315-SO5514-N-052720 |
| 5515 | 20WS-0315-SO5515-N-052720 | 5/27/2020 | 1355 | 0315 | Garibaldi | 6.28 | | | | | | | Grab | Moderate | Low | | |
| 5516 | 20WS-0315-SO5516-N-052720 | 5/27/2020 | 1405 | 0315 | Garibaldi | 6.39 | 1 | | | | | | 5-point | High | Low | | |
| 5517 | 20WS-0319-SO5517-N-052720 | 5/27/2020 | 1455 | 0319 | Nile | 5.87 | | | | | | | Grab | Low | Low | | |
| 5518 | 20WS-0319-SO5518-N-052720 | 5/27/2020 | 1505 | 0319 | Nile | 6.58 | | | | | | | Grab | Moderate | Low | | |
| 5519 | 20WS-0319-SO5519-N-052720 | 5/27/2020 | 1510 | 0319 | Nile | 6.40 | | | | | | | 5-point | Low | Low | | |
| 5520 | 20WS-0319-SO5520-N-052720 | 5/27/2020 | 1520 1525 | 0319 | Nile | 6.32 | | 2 | | | | | 8-point | Low | Low | Metals Duplicate | 20WS-0319-SO5520-N-052720 20WS-0319-SO5520-D-052720 |
| 5521 | 20WS-0319-SO5521-N-052720 | 5/27/2020 | 1530 | 0319 | Nile | 7.49 | | | | | | | Grab | Low | Low | | |
| 5522 | 20WS-0319-SO5522-N-052720 | 5/27/2020 | 1535 | 0319 | Nile | 6.87 | | | | | | | Grab | Moderate | Low | | |
| 5523 | 20WS-0320-SO5523-N-052720 | 5/27/2020 | 1540 | 0320 | United States | 6.17 | 1 | | | | | | 10-point | Low | High | | |
| 5524 | 20WS-0320-SO5524-N-052720 | 5/27/2020 | 1545 | 0320 | United States | 7.01 | 1 | | | | | | Grab | Low | Low | | |
| 5525 | 20WS-0320-SO5525-N-052720 | 5/27/2020 | 1555 | 0320 | United States | 7.50 | | | | | | | 5-point | Low | Low | | |
| 5526 | 20WS-0320-SO5526-N-052720 | 5/27/2020 | 1600 | 0320 | United States | 6.74 | | | | | | | Grab | High | Low | | |
| 5527 | 20WS-0320-SO5527-N-052720 | 5/27/2020 | 1605 | 0320 | United States | 6.51 | 1 | | | | | | 6-point | Moderate | Low | | |
| 5528 | 20WS-0319-SO5528-N-052720 | 5/27/2020 | 1620 | 0319 | Nile | 6.69 | | | | | | | Grab | Low | Low | | |
| 5529 | 20WS-0319-SO5529-N-052720 | 5/27/2020 | 1625 | 0319 | Nile | 7.65 | | | | | | | Grab | Moderate | Moderate | | |
| 5530 | 20WS-0321-SO5530-N-052820 | 5/28/2020 | 1010 | 0321 | Missouri B | 5.35 | | | | | | | 5-point | Low | Low | | |
| 5531 | 20WS-0321-SO5531-N-052820 | 5/28/2020 | 1015 | 0321 | Missouri B | 5.47 | 1 | | | | | | 5-point | Low | Low | | |
| 5532 | 20WS-0320-SO5532-N-052820 | 5/28/2020 | 1020 | 0320 | United States | 5.35 | | | | | | | Grab | Low | Low | | |
| 5533 | 20WS-0320-SO5533-N-052820 | 5/28/2020 | 1025 | 0320 | United States | 5.22 | | | | | | | 5-point | Moderate | High | | |
| 5534 | 20WS-0319-SO5534-N-052820 | 5/28/2020 | 1030 | 0319 | Nile | 8.74 | | | | | | | Grab | Low | Moderate | | |
| 5535 | 20WS-0319-SO5535-N-052820 | 5/28/2020 | 1100 | 0319 | Nile | 5.65 | 1 | | | | | | 5-point | Low | Low | | |
| 5536 | 20WS-0319-SO5536-N-052820 | 5/28/2020 | 1110 | 0319 | Nile | 5.19 | 1 | 1 | | | | | 5-point | High | Low | | 20WS-0319-SO5536-N-052820 |
| 5537 | 20WS-0319-SO5537-N-052820 | 5/28/2020 | 1125 | 0319 | Nile | 5.02 | | | | | | | Grab | Moderate | Low | | |
| 5538 | 20WS-0319-SO5538-N-052820 | 5/28/2020 | 1130 | 0319 | Nile | 5.05 | | | | | | | 5-point | High | Low | | |
| 5539 | 20WS-0319-SO5539-N-052820 | 5/28/2020 | 1135 | 0319 | Nile | 5.04 | | | | | | | Grab | High | Low | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|------|-------------|--------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|-------|---------------------------|
| 5540 | 20WS-0315-SO5540-N-052820 | 5/28/2020 | 1145 | 0315 | Garibaldi | 5.07 | | | | | | | Grab | High | Low | | |
| 5541 | 20WS-0312-SO5541-N-052820 | 5/28/2020 | 1235 | 0312 | Uncle Sam | 5.32 | | | | | | | Grab | Low | None | | |
| 5542 | 20WS-0312-SO5542-N-052820 | 5/28/2020 | 1240 | 0312 | Uncle Sam | 6.13 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5543 | 20WS-0312-SO5543-N-052820 | 5/28/2020 | 1250 | 0312 | Uncle Sam | 5.55 | | | | | | | Grab | None | None | | |
| 5544 | 20WS-0312-SO5544-N-052820 | 5/28/2020 | 1255 | 0312 | Uncle Sam | 5.00 | | 1 | 1 | 1 | | | 5-point | None | None | | 20WS-0312-SO5544-N-052820 |
| 5545 | 20WS-0312-SO5545-N-052820 | 5/28/2020 | 1305 | 0312 | Uncle Sam | 7.89 | | | | | | | Grab | None | None | | |
| 5546 | 20WS-0312-SO5546-N-052820 | 5/28/2020 | 1310 | 0312 | Uncle Sam | 6.84 | | | | | | | Grab | High | Low | | |
| 5547 | 20WS-0312-SO5547-N-052820 | 5/28/2020 | 1320 | 0312 | Uncle Sam | 6.01 | 1 | | | | | | 5-point | None | Low | | |
| 5548 | 20WS-0307-SO5548-N-052820 | 5/28/2020 | 1335 | 0307 | Cora May | 4.73 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5549 | 20WS-0307-SO5549-N-052820 | 5/28/2020 | 1345 | 0307 | Cora May | 5.15 | | | | | | | Grab | Low | Low | | |
| 5550 | 20WS-0313-SO5550-N-052820 | 5/28/2020 | 1405 | 0313 | Silver Cleft | 5.20 | | | | | | | Grab | None | None | | |
| 5551 | 20WS-0313-SO5551-N-052820 | 5/28/2020 | 1415 | 0313 | Silver Cleft | 4.95 | | | | | | | Grab | None | None | | |
| 5552 | 20WS-0313-SO5552-N-052820 | 5/28/2020 | 1425 | 0313 | Silver Cleft | 4.76 | 1 | | | | | | Grab | High | Low | | |
| 5553 | 20WS-0313-SO5553-N-052820 | 5/28/2020 | 1430 | 0313 | Silver Cleft | 4.63 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5554 | 20WS-0313-SO5554-N-052820 | 5/28/2020 | 1455 | 0313 | Silver Cleft | 5.71 | | | | | 1 | | 30-point | Moderate | Low | | 20WS-0313-SO5554-N-052820 |
| 5555 | 20WS-0313-SO5555-N-052820 | 5/28/2020 | 1510 | 0313 | Silver Cleft | 5.54 | | | | | | | Grab | None | None | | |
| 5556 | 20WS-0313-SO5556-N-052820 | 5/28/2020 | 1520 | 0313 | Silver Cleft | 4.88 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5557 | 20WS-0301-SO5557-N-052820 | 5/28/2020 | 1550 | 0301 | Self Rising | 4.98 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5558 | 20WS-0301-SO5558-N-052820 | 5/28/2020 | 1555 | 0301 | Self Rising | 5.06 | | | | | | | Grab | High | Low | | |
| 5559 | 20WS-0301-SO5559-N-052820 | 5/28/2020 | 1600 | 0301 | Self Rising | 4.78 | 1 | | | | | | 5-point | Low | None | | |
| 5560 | 20WS-0301-SO5560-N-052820 | 5/28/2020 | 1610 | 0301 | Self Rising | 4.68 | 1 | | | | | | 10-point | Moderate | Moderate | | |
| 5561 | 20WS-0301-SO5561-N-052820 | 5/28/2020 | 1615 | 0301 | Self Rising | 4.71 | | | | | | | Grab | Low | Low | | |
| 5562 | 20WS-0301-SO5562-N-052820 | 5/28/2020 | 1620 | 0301 | Self Rising | 5.17 | | | | | | | Grab | Low | Low | | |
| 5563 | 20WS-0301-SO5563-N-052820 | 5/28/2020 | 1625 | 0301 | Self Rising | 5.05 | | | | | | | Grab | Moderate | High | | |
| 5564 | 20WS-0301-SO5564-N-052820 | 5/28/2020 | 1630 | 0301 | Self Rising | 5.65 | | | | | | | Grab | None | None | | |
| 5565 | 20WS-0301-SO5565-N-052820 | 5/28/2020 | 1635 | 0301 | Self Rising | 4.93 | | | | | | | 5-point | High | Low | | |
| 5566 | 20WS-0301-SO5566-N-052820 | 5/28/2020 | 1640 | 0301 | Self Rising | 4.92 | 1 | | | | | | 8-point | High | Low | | |
| 5567 | 20WS-1150-SO5567-N-052920 | 5/29/2020 | 1030 | 1150 | General Washington | 5.72 | 1 | | | | | | 10-point | High | Low | | |
| 5568 | 20WS-1150-SO5568-N-052920 | 5/29/2020 | 1050 | 1150 | General Washington | 5.51 | 1 | | | | | | 10-point | Moderate | Low | | |
| 5569 | 20WS-1150-SO5569-N-052920 | 5/29/2020 | 1100 | 1150 | General Washington | 5.35 | | | | | | | Grab | High | Moderate | | |
| 5570 | 20WS-0301-SO5570-N-052920 | 5/29/2020 | 1105 | 0301 | Self Rising | 6.13 | | | | | | | Grab | Low | Low | | |
| 5571 | 20WS-0301-SO5571-N-052920 | 5/29/2020 | 1110 | 0301 | Self Rising | 8.55 | | 1 | | | | | 6-point | High | Low | | 20WS-0301-SO5571-N-052920 |
| 5572 | 20WS-0301-SO5572-N-052920 | 5/29/2020 | 1115 | 0301 | Self Rising | 8.37 | | | | | | | Grab | Low | Low | | |
| 5573 | 20WS-0301-SO5573-N-052920 | 5/29/2020 | 1120 | 0301 | Self Rising | 7.55 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5574 | 20WS-1150-SO5574-N-052920 | 5/29/2020 | 1135 | 1150 | General Washington | 5.44 | 1 | | | | | | 5-point | High | Moderate | | |
| 5575 | 20WS-1150-SO5575-N-052920 | 5/29/2020 | 1140 | 1150 | General Washington | 5.25 | | | | | | | Grab | Moderate | Low | | |
| 5576 | 20WS-1150-SO5576-N-052920 | 5/29/2020 | 1145 | 1150 | General Washington | 3.51 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5577 | 20WS-1150-SO5577-N-052920 | 5/29/2020 | 1155 | 1150 | General Washington | 5.19 | 1 | | | | | | 5-point | High | Low | | |
| 5578 | 20WS-0301-SO5578-N-052920 | 5/29/2020 | 1240 | 0301 | Self Rising | 7.15 | | | | | | | Grab | Low | Low | | |
| 5579 | 20WS-0301-SO5579-N-052920 | 5/29/2020 | 1300 | 0301 | Self Rising | 5.50 | 1 | | | | | | 5-point | Low | Low | | |
| 5580 | 20WS-0301-SO5580-N-052920 | 5/29/2020 | 1305 | 0301 | Self Rising | 5.12 | | | | | | | Grab | High | Low | | |
| 5581 | 20WS-0301-SO5581-N-052920 | 5/29/2020 | 1310 | 0301 | Self Rising | 3.16 | | | | | | | Grab | Moderate | Moderate | | |
| 5582 | 20WS-0301-SO5582-N-052920 | 5/29/2020 | 1315 | 0301 | Self Rising | 4.72 | | | | | | | 5-point | Moderate | Moderate | | |
| 5583 | 20WS-0301-SO5583-N-052920 | 5/29/2020 | 1320 | 0301 | Self Rising | 5.05 | | | | | | | 5-point | High | Low | | |
| 5584 | 20WS-0301-SO5584-N-052920 | 5/29/2020 | 1325 | 0301 | Self Rising | 6.23 | 1 | | | | | | 6-point | Moderate | Moderate | | |
| 5585 | 20WS-0301-SO5585-N-052920 | 5/29/2020 | 1330 | 0301 | Self Rising | 7.09 | 1 | | | | | | 5-point | High | High | | |
| 5586 | 20WS-0301-SO5586-N-052920 | 5/29/2020 | 1340 | 0301 | Self Rising | 6.87 | | | | | | | Grab | Moderate | High | | |
| 5587 | 20WS-0300-SO5587-N-052920 | 5/29/2020 | 1355 | 0300 | Tom Haney | 5.22 | | | | | | | 5-point | Moderate | Moderate | | |
| 5588 | 20WS-0300-SO5588-N-052920 | 5/29/2020 | 1400 | 0300 | Tom Haney | 4.73 | | | | | | | Grab | High | Low | | |

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| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|------|-------------|------------------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|-------------|---------------------------|
| 5589 | 20WS-0300-SO5589-N-052920 | 5/29/2020 | 1405 | 0300 | Tom Haney | 8.89 | | | | | | | Grab | None | Low | | |
| 5590 | 20WS-0300-SO5590-N-052920 | 5/29/2020 | 1410 | 0300 | Tom Haney | 5.28 | 1 | | | | | | 5-point | Moderate | High | | |
| 5591 | 20WS-0300-SO5591-N-052920 | 5/29/2020 | 1415 | 0300 | Tom Haney | 5.41 | | | | | | | Grab | None | Low | | |
| 5592 | 20WS-0300-SO5592-N-052920 | 5/29/2020 | 1420 | 0300 | Tom Haney | 4.95 | 1 | | | | | | 5-point | High | None | | |
| 5593 | 20WS-0300-SO5593-N-052920 | 5/29/2020 | 1430 | 0300 | Tom Haney | 4.66 | 1 | | | | | | 10-point | High | Moderate | | |
| 5594 | 20WS-0300-SO5594-N-052920 | 5/29/2020 | 1445 | 0300 | Tom Haney | 5.13 | | | | | | | 5-point | None | None | | |
| 5595 | 20WS-0300-SO5595-N-052920 | 5/29/2020 | 1450 | 0300 | Tom Haney | 5.42 | | | | | | | Grab | Moderate | Moderate | | |
| 5596 | 20WS-0300-SO5596-N-052920 | 5/29/2020 | 1500 | 0300 | Tom Haney | 5.32 | | | | | | | Grab | Moderate | Moderate | | |
| 5597 | 20WS-0306-SO5597-N-052920 | 5/29/2020 | 1505 | 0306 | Herbert | 4.97 | 1 | | | | | | 5-point | Moderate | High | | |
| 5598 | 20WS-0311-SO5598-N-052920 | 5/29/2020 | 1530 | 0311 | Little Gem | 4.64 | | | | | | | 5-point | Moderate | Moderate | | |
| 5599 | 20WS-0300-SO5599-N-052920 | 5/29/2020 | 1540 | 0300 | Tom Haney | 6.42 | | | | | | | Grab | High | Moderate | | |
| 5600 | 20WS-0013-SO5600-N-060120 | 6/1/2020 | 0900 | 0013 | Georgie | 6.33 | | | | | | | 5-point | Moderate | High | | |
| 5601 | 20WS-0013-SO5601-N-060120 | 6/1/2020 | 0905 | 0013 | Georgie | 7.18 | | 1 | | | | | 5-point | High | High | | 20WS-0013-SO5601-N-060120 |
| 5602 | 20WS-0013-SO5602-N-060120 | 6/1/2020 | 0915 | 0013 | Georgie | 5.78 | | | | | | | Grab | Moderate | High | | |
| 5603 | 20WS-0013-SO5603-N-060120 | 6/1/2020 | 0920 | 0013 | Georgie | 4.13 | 1 | | | | | | 5-point | High | Moderate | | |
| 5604 | 20WS-0013-SO5604-N-060120 | 6/1/2020 | 0925 | 0013 | Georgie | NA | | | | | | | NA | None | None | Bedrock | |
| 5605 | 20WS-0013-SO5605-N-060120 | 6/1/2020 | 0930 | 0013 | Georgie | NA | | | | | | | NA | None | None | Bare Area | |
| 5606 | 20WS-0013-SO5606-N-060120 | 6/1/2020 | 0935 | 0013 | Georgie | 8.08 | | | | | | | Grab | None | None | | |
| 5607 | 20WS-0013-SO5607-N-060120 | 6/1/2020 | 0940 | 0013 | Georgie | 7.05 | | | | | | | 5-point | Moderate | Moderate | | |
| 5608 | 20WS-0013-SO5608-N-060120 | 6/1/2020 | 0945 | 0013 | Georgie | 5.85 | 1 | | | | | | 8-point | Moderate | Moderate | | |
| 5609 | 20WS-0012-SO5609-N-060120 | 6/1/2020 | 0955 | 0012 | Prospector | 6.94 | | | | | | | 5-point | None | None | | |
| 5610 | 20WS-0013-SO5610-N-060120 | 6/1/2020 | 1005 | 0013 | Georgie | 7.72 | | | | | 1 | | 30-point | None | None | | 20WS-0013-SO5610-N-060120 |
| 5611 | 20WS-0010-SO5611-N-060120 | 6/1/2020 | 1020 | 0010 | Minnie Jane | 3.70 | | 1 | | | | | 10-point | High | Moderate | | 20WS-0010-SO5611-N-060120 |
| 5612 | 20WS-0010-SO5612-N-060120 | 6/1/2020 | 1025 | 0010 | Minnie Jane | 4.89 | | | | | | | Grab | High | Low | | |
| 5613 | 20WS-0296-SO5613-N-060120 | 6/1/2020 | 1050 | 0296 | Philadelphia | 7.82 | | | | | | | Grab | Low | Low | | |
| 5614 | 20WS-0296-SO5614-N-060120 | 6/1/2020 | 1100 | 0296 | Philadelphia | 6.00 | 1 | | | | | | 5-point | High | Low | | |
| 5615 | 20WS-0296-SO5615-N-060120 | 6/1/2020 | 1105 | 0296 | Philadelphia | 3.42 | 1 | | | | | | 5-point | None | Low | | |
| 5616 | 20WS-0296-SO5616-N-060120 | 6/1/2020 | 1120 | 0296 | Philadelphia | 6.39 | | | | | | | 5-point | High | Low | | |
| 5617 | 20WS-0296-SO5617-N-060120 | 6/1/2020 | 1125 | 0296 | Philadelphia | 8.28 | | | | | | | Grab | Low | Low | | |
| 5618 | 20WS-0296-SO5618-N-060120 | 6/1/2020 | 1130 | 0296 | Philadelphia | 3.63 | 1 | | | | | | 5-point | Low | Low | | |
| 5619 | 20WS-0296-SO5619-N-060120 | 6/1/2020 | 1140 | 0296 | Philadelphia | 5.37 | 1 | | | | | | 5-point | Low | Low | | |
| 5620 | 20WS-0311-SO5620-N-060120 | 6/1/2020 | 1240 | 0311 | Little Gem | NA | | | | | | | NA | None | None | Bedrock | |
| 5621 | 20WS-0311-SO5621-N-060120 | 6/1/2020 | 1245 | 0311 | Little Gem | 8.15 | | | | | | | Grab | Low | High | | |
| 5622 | 20WS-0311-SO5622-N-060120 | 6/1/2020 | 1300 | 0311 | Little Gem | NA | | | | | | | NA | None | None | Mammal Dens | |
| 5623 | 20WS-0311-SO5623-N-060120 | 6/1/2020 | 1305 | 0311 | Little Gem | 5.73 | 1 | | | | | | 5-point | Low | High | | |
| 5624 | 20WS-0311-SO5624-N-060120 | 6/1/2020 | 1315 | 0311 | Little Gem | 4.83 | | | | | | | Grab | Moderate | High | | |
| 5625 | 20WS-0306-SO5625-N-060120 | 6/1/2020 | 1335 | 0306 | Herbert | 5.76 | | 1 | | | | | 5-point | High | Low | | 20WS-0306-SO5625-N-060120 |
| 5626 | 20WS-1143-SO5626-N-060220 | 6/2/2020 | 0910 | 1143 | sliver near Houghton | 8.54 | 1 | | | | | | 5-point | Low | High | | |
| 5627 | 20WS-1143-SO5627-N-060220 | 6/2/2020 | 0935 | 1143 | sliver W of Little Annie | 3.69 | 1 | | | | | | 5-point | None | Moderate | | |
| 5628 | 20WS-1143-SO5628-N-060220 | 6/2/2020 | 0940 | 1143 | sliver W of Little Annie | 5.19 | | | | | | | Grab | Moderate | Low | | |
| 5629 | 20WS-1143-SO5629-N-060220 | 6/2/2020 | 0950 | 1143 | sliver W of Little Annie | 6.40 | | | | | | | Grab | None | None | | |
| 5630 | 20WS-1142-SO5630-N-060220 | 6/2/2020 | 1000 | 1142 | W of Cheyenne | 6.78 | | | | | | | Grab | None | Moderate | | |
| 5631 | 20WS-1142-SO5631-N-060220 | 6/2/2020 | 1015 | 1142 | E of Big Bonanza | 6.11 | 1 | | | | | | 5-point | Low | Low | | |
| 5632 | 20WS-1140-SO5632-N-060220 | 6/2/2020 | 1040 | 1140 | Small claim W of Big Bonanza | 8.53 | | | | | | | Grab | Low | Low | | |
| 5633 | 20WS-0350-SO5633-N-060220 | 6/2/2020 | 1155 | 0350 | Belcher | 4.85 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5634 | 20WS-0350-SO5634-N-060220 | 6/2/2020 | 1205 | 0350 | Belcher | 5.64 | | | | | | | 5-point | High | High | | |
| 5635 | 20WS-0350-SO5635-N-060220 | 6/2/2020 | 1210 | 0350 | Belcher | 6.15 | | | | | | | 5-point | Low | High | | |
| 5636 | 20WS-0350-SO5636-N-060220 | 6/2/2020 | 1215 | 0350 | Belcher | 7.44 | | | | | | | Grab | Low | Low | | |
| 5637 | 20WS-0350-SO5637-N-060220 | 6/2/2020 | 1225 | 0350 | Belcher | 6.65 | 1 | | | | | | 5-point | Moderate | High | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|----------|------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-----------------|-------------|-------------|-------------------|---------------------------|
| 5638 | 20WS-0350-SO5638-N-060220 | 6/2/2020 | 1235 | 0350 | Belcher | 6.60 | | | | | | | Grab | High | Moderate | | |
| 5639 | 20WS-0350-SO5639-N-060220 | 6/2/2020 | 1240 | 0350 | Belcher | 5.92 | | | | | | | Grab | Moderate | High | | |
| 5640 | 20WS-0350-SO5640-N-060220 | 6/2/2020 | 1245 | 0350 | Belcher | 7.82 | 1 | | | | | | 5-point | Low | High | | |
| 5641 | 20WS-0350-SO5641-N-060220 | 6/2/2020 | 1300 | 0350 | Belcher | 8.06 | | | | | | | 5-point | Moderate | Moderate | | |
| 5642 | 20WS-0350-SO5642-N-060220 | 6/2/2020 | 1310 | 0350 | Belcher | 7.70 | | | | | | | 5-point | Moderate | Moderate | | |
| 5643 | 20WS-0111-SO5643-N-060220 | 6/2/2020 | 1345 | 0111 | Sargeant | 7.25 | | | | | | | Grab | None | None | | |
| 5644 | 20WS-0111-SO5644-N-060220 | 6/2/2020 | 1355 | 0111 | Sargeant | 7.77 | | | | | | | Grab | None | Low | | |
| 5645 | 20WS-0350-SO5645-N-060220 | 6/2/2020 | 1400 | 0350 | Belcher | 6.13 | | 1 | | | | | 5-point | High | Low | | 20WS-0350-SO5645-N-060220 |
| 5646 | 20WS-0350-SO5646-N-060220 | 6/2/2020 | 1415 | 0350 | Belcher | 6.22 | | | | | | | Grab | Low | Moderate | | |
| 5647 | 20WS-0350-SO5647-N-060220 | 6/2/2020 | 1420 | 0350 | Belcher | 6.43 | | | | | | | Grab | Moderate | Low | | |
| 5648 | 20WS-0350-SO5648-N-060220 | 6/2/2020 | 1425 | 0350 | Belcher | 4.10 | 1 | | | | | | 10-point | Low | Low | | |
| 5649 | 20WS-0350-SO5649-N-060220 | 6/2/2020 | 1435 | 0350 | Belcher | 5.27 | | | | | | | Grab | Low | Low | | |
| 5650 | 20WS-0111-SO5650-N-060220 | 6/2/2020 | 1445 | 0111 | Sargeant | 7.44 | | | | | | | 5-point | None | None | | |
| 5651 | 20WS-0002-SO5651-N-060120 | 6/1/2020 | 0013 | 0002 | Portland | NA | | | | | | | Vegetated Piles | None | Low | | |
| 5652 | 20WS-0002-SO5652-N-060120 | 6/1/2020 | 1300 | 0002 | Portland | 8.08 | | | | | | | Grab | None | Low | | |
| 5653 | 20WS-0002-SO5653-N-060120 | 6/1/2020 | 1310 | 0002 | Portland | NA | | | | | | | NA | None | Low | Vegetated Piles | |
| 5654 | 20WS-0002-SO5654-N-060120 | 6/1/2020 | 1320 | 0002 | Portland | NA | | | | | | | NA | None | None | Waste rock piles | |
| 5655 | 20WS-0002-SO5655-N-060120 | 6/1/2020 | 1335 | 0002 | Portland | NA | | | | | | | NA | None | None | Bare Area | |
| 5656 | 20WS-0002-SO5656-N-060120 | 6/1/2020 | 1340 | 0002 | Portland | 4.97 | | | | | | | Grab | None | None | | |
| 5657 | 20WS-0002-SO5657-N-060120 | 6/1/2020 | 1345 | 0002 | Portland | NA | | | | | | | NA | None | None | Part of Old Dump | |
| 5658 | 20WS-0002-SO5658-N-060120 | 6/1/2020 | 1400 | 0002 | Portland | NA | | | | | | | NA | None | None | Med Size Trench | |
| 5659 | 20WS-0002-SO5659-N-060120 | 6/1/2020 | 1405 | 0002 | Portland | 5.09 | | | | | | | Grab | Low | None | | |
| 5660 | 20WS-0002-SO5660-N-060120 | 6/1/2020 | 1410 | 0002 | Portland | NA | | | | | | | NA | None | None | Trench/Drainage | |
| 5661 | 20WS-0003-SO5661-N-060120 | 6/1/2020 | 1420 | 0003 | Humboldt | 8.00 | 1 | | | | | | 5-point | Low | Low | | |
| 5662 | 20WS-0003-SO5662-N-060120 | 6/1/2020 | 1430 | 0003 | Humboldt | 8.11 | | | | | | | Grab | Moderate | Low | | |
| 5663 | 20WS-0003-SO5663-N-060120 | 6/1/2020 | 1435 | 0003 | Humboldt | 8.14 | | | | | | | Grab | Low | Low | | |
| 5664 | 20WS-0038-SO5664-N-060120 | 6/1/2020 | 1510 | 0038 | North Pole | 4.99 | 1 | | | | | | 5-point | High | Low | | |
| 5665 | 20WS-0041-SO5665-N-060120 | 6/1/2020 | 1525 | 0041 | Katie T | NA | | | | | | | NA | None | None | Imported Material | |
| 5666 | 20WS-0041-SO5666-N-060120 | 6/1/2020 | 1530 | 0041 | Katie T | 6.03 | | | | | | | 5-point | Low | None | | |
| 5667 | 20WS-0317-SO5667-N-060120 | 6/1/2020 | 1555 | 0317 | St. Louis | 5.45 | | | | | | | Grab | None | None | | |
| 5668 | 20WS-0317-SO5668-N-060120 | 6/1/2020 | 1600 | 0317 | St. Louis | 5.31 | 1 | | | | | | 6-point | High | Low | | |
| 5669 | 20WS-0317-SO5669-N-060120 | 6/1/2020 | 1605 | 0317 | St. Louis | NA | | | | | | | NA | Low | None | Bedrock | |
| 5670 | 20WS-0179-SO5670-N-060220 | 6/2/2020 | 0900 | 0179 | Eagle | 3.88 | | 1 | 1 | 1 | | | 5-point | None | Low | | 20WS-0179-SO5670-N-060220 |
| 5671 | 20WS-0179-SO5671-N-060220 | 6/2/2020 | 0920 | 0179 | Eagle | 8.00 | | | | | | | Grab | None | Low | | |
| 5672 | 20WS-0179-SO5672-N-060220 | 6/2/2020 | 0925 | 0179 | Eagle | 3.59 | 1 | | | | | | 5-point | None | None | | |
| 5673 | 20WS-0179-SO5673-N-060220 | 6/2/2020 | 0935 | 0179 | Eagle | 4.22 | | 1 | | | | | 5-point | Low | Moderate | | 20WS-0179-SO5673-N-060220 |
| 5674 | 20WS-0179-SO5674-N-060220 | 6/2/2020 | 0924 | 0179 | Eagle | 3.50 | | | | | | | Grab | None | Low | | |
| 5675 | 20WS-0179-SO5675-N-060220 | 6/2/2020 | 0950 | 0179 | Eagle | 3.77 | 1 | | | | | | Grab | Low | Low | | |
| 5676 | 20WS-0179-SO5676-N-060220 | 6/2/2020 | 1000 | 0179 | Eagle | 3.86 | | | | | | | Grab | None | Low | | |
| 5677 | 20WS-0179-SO5677-N-060220 | 6/2/2020 | 1005 | 0179 | Eagle | 3.76 | | | | | | | Grab | None | None | | |
| 5678 | 20WS-0179-SO5678-N-060220 | 6/2/2020 | 1020 | 0179 | Eagle | 3.77 | 1 | | | | | | 10-point | None | Low | | |
| 5679 | 20WS-0179-SO5679-N-060220 | 6/2/2020 | 1030 | 0179 | Eagle | 3.40 | 1 | | | | | | 5-point | None | Moderate | | |
| 5680 | 20WS-0179-SO5680-N-060220 | 6/2/2020 | 1040 | 0179 | Eagle | 3.97 | | 1 | | | | | 6-point | None | Low | | 20WS-0179-SO5680-N-060220 |
| 5681 | 20WS-0179-SO5681-N-060220 | 6/2/2020 | 1055 | 0179 | Eagle | 3.17 | | | | | | | Grab | None | Low | | |
| 5682 | 20WS-0179-SO5682-N-060220 | 6/2/2020 | 1100 | 0179 | Eagle | 3.25 | | | | | | | Grab | None | Low | | |
| 5683 | 20WS-0179-SO5683-N-060220 | 6/2/2020 | 1105 | 0179 | Eagle | 6.37 | | | | | | | Grab | None | None | | |
| 5684 | 20WS-0179-SO5684-N-060220 | 6/2/2020 | 1110 | 0179 | Eagle | 4.53 | 1 | | | | | | Grab | None | Low | | |
| 5685 | 20WS-0179-SO5685-N-060220 | 6/2/2020 | 1115 | 0179 | Eagle | 5.02 | 1 | | | | | | Grab | None | None | | |
| 5686 | 20WS-0179-SO5686-N-060220 | 6/2/2020 | 1130 | 0179 | Eagle | NA | | | | | | | NA | None | None | Bare Area | |
| 5687 | 20WS-0179-SO5687-N-060220 | 6/2/2020 | 1200 | 0179 | Eagle | NA | | | | | | | NA | None | None | Bedrock | |
| 5688 | 20WS-0142-SO5688-N-060220 | 6/2/2020 | 1315 | 0142 | Non Consolidated | 6.65 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5689 | 20WS-0142-SO5689-N-060220 | 6/2/2020 | 1325 | 0142 | Non Consolidated | 8.08 | | | | | | | Grab | Low | Low | | |
| 5690 | 20WS-0142-SO5690-N-060220 | 6/2/2020 | 1330 | 0142 | Non Consolidated | 3.76 | | | | | | | Grab | Moderate | Moderate | | |
| 5691 | 20WS-0142-SO5691-N-060220 | 6/2/2020 | 1340 | 0142 | Non Consolidated | 4.72 | | | | | | | Grab | Moderate | Moderate | | |
| 5692 | 20WS-0142-SO5692-N-060220 | 6/2/2020 | 1345 | 0142 | Non Consolidated | 3.90 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5693 | 20WS-0122-SO5693-N-060220 | 6/2/2020 | 1425 | 0122 | Snow Drift | 5.36 | | | | | 1 | | 30-point | None | None | | 20WS-0122-SO5693-N-060220 |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|----------|------|-------------|-------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|--------------------------------|---------------------------|
| 5694 | 20WS-0138-SO5694-N-060220 | 6/2/2020 | 1455 | 0138 | Glengarry | 5.02 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5695 | 20WS-0138-SO5695-N-060220 | 6/2/2020 | 1500 | 0138 | Glengarry | 7.95 | | | | | | | Grab | Low | None | | |
| 5696 | 20WS-0138-SO5696-N-060220 | 6/2/2020 | 1505 | 0138 | Glengarry | 4.63 | | | | | | | Grab | Moderate | Low | | |
| 5697 | 20WS-0138-SO5697-N-060220 | 6/2/2020 | 1515 | 0138 | Glengarry | 6.33 | 1 | | | | | | 5-point | High | None | | |
| 5698 | 20WS-0138-SO5698-N-060220 | 6/2/2020 | 1520 | 0138 | Glengarry | 4.11 | | | | | | | Grab | Moderate | Moderate | | |
| 5699 | 20WS-0138-SO5699-N-060220 | 6/2/2020 | 1525 | 0138 | Glengarry | 8.02 | | | | | | | Grab | None | Low | | |
| 5700 | 20WS-0138-SO5700-N-060220 | 6/2/2020 | 1530 | 0138 | Glengarry | 5.06 | | 1 | | | | | Grab | NR | NR | | 20WS-0138-SO5700-N-060220 |
| 5701 | 20WS-0138-SO5701-N-060220 | 6/2/2020 | 1550 | 0138 | Glengarry | NA | | | | | | | NA | None | None | Well Vegetated Trench Pile | |
| 5702 | 20WS-0122-SO5702-N-060220 | 6/2/2020 | 1555 | 0122 | Snow Drift | NA | | | | | | | NA | None | None | Well Vegetated Trench Pile | |
| 5703 | 20WS-0122-SO5703-N-060220 | 6/2/2020 | 1600 | 0122 | Snow Drift | NA | | | | | | | NA | Low | Low | Moderate vegetated trench pile | |
| 5704 | 20WS-0122-SO5704-N-060220 | 6/2/2020 | 1610 | 0122 | Snow Drift | 4.06 | | 1 | | | | | 10-point | High | Low | | 20WS-0122-SO5704-N-060220 |
| 5705 | 20WS-0122-SO5705-N-060220 | 6/2/2020 | 1615 | 0122 | Snow Drift | 6.11 | | | | | | | 5-point | Moderate | Low | | |
| 5706 | 20WS-0162-SO5706-N-060320 | 6/3/2020 | 0840 | 0162 | Marget Ann | 8.61 | | 1 | | | | | 5-point | Low | Low | | 20WS-0162-SO5706-N-060320 |
| 5707 | 20WS-0162-SO5707-N-060320 | 6/3/2020 | 0850 | 0162 | Marget Ann | 8.50 | | | | | | | Grab | Low | None | | |
| 5708 | 20WS-0162-SO5708-N-060320 | 6/3/2020 | 0855 | 0162 | Marget Ann | 8.35 | 1 | | | | | | 5-point | Low | None | | |
| 5709 | 20WS-0162-SO5709-N-060320 | 6/3/2020 | 0900 | 0162 | Marget Ann | 8.33 | | | | | | | Grab | Moderate | Low | | |
| 5710 | 20WS-0162-SO5710-N-060320 | 6/3/2020 | 0905 | 0162 | Marget Ann | 8.70 | 1 | | | | | | Grab | Low | None | | |
| 5711 | 20WS-0162-SO5711-N-060320 | 6/3/2020 | 0915 | 0162 | Marget Ann | 8.33 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5712 | 20WS-0162-SO5712-N-060320 | 6/3/2020 | 0925 | 0162 | Marget Ann | 8.57 | | | | | | | Grab | Low | None | | |
| 5713 | 20WS-0162-SO5713-N-060320 | 6/3/2020 | 0930 | 0162 | Marget Ann | 6.43 | | | | | | | Grab | High | Low | | |
| 5714 | 20WS-0162-SO5714-N-060320 | 6/3/2020 | 0940 | 0162 | Marget Ann | 2.23 | | | | | | | Grab | Moderate | High | | |
| 5715 | 20WS-0162-SO5715-N-060320 | 6/3/2020 | 1005 | 0162 | Marget Ann | 8.48 | | | | | | | Grab | None | None | | |
| 5716 | 20WS-0162-SO5716-N-060320 | 6/3/2020 | 1015 | 0162 | Marget Ann | 6.85 | 1 | | | | | | 5-point | None | Moderate | | |
| 5717 | 20WS-0162-SO5717-N-060320 | 6/3/2020 | 1050 | 0162 | Marget Ann | 8.39 | | | | | | | Grab | Low | Low | | |
| 5718 | 20WS-0162-SO5718-N-060320 | 6/3/2020 | 1100 | 0162 | Marget Ann | 8.33 | | | | | | | Grab | Low | None | | |
| 5719 | 20WS-0162-SO5719-N-060320 | 6/3/2020 | 1105 | 0162 | Marget Ann | 5.33 | 1 | | | | | | 5-point | High | Low | | |
| 5720 | 20WS-0162-SO5720-N-060320 | 6/3/2020 | 1115 | 0162 | Marget Ann | 6.89 | 1 | | | | | | 5-point | None | None | | |
| 5721 | 20WS-0162-SO5721-N-060320 | 6/3/2020 | 1125 | 0162 | Marget Ann | 7.67 | | | | | | | Grab | None | None | | |
| 5722 | 20WS-0162-SO5722-N-060320 | 6/3/2020 | 1130 | 0162 | Marget Ann | 8.50 | | 1 | | | | | Grab | None | None | | 20WS-0162-SO5722-N-060320 |
| 5723 | 20WS-0138-SO5723-N-060320 | 6/3/2020 | 1150 | 0138 | Glengarry | 8.45 | | | | | | | Grab | Moderate | None | | |
| 5724 | 20WS-0138-SO5724-N-060320 | 6/3/2020 | 1200 | 0138 | Glengarry | 6.40 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5725 | 20WS-0138-SO5725-N-060320 | 6/3/2020 | 1205 | 0138 | Glengarry | 8.53 | | | | | | | Grab | Moderate | Low | | |
| 5726 | 20WS-0111-SO5726-N-060220 | 6/2/2020 | 1510 | 0111 | Sargeant | 7.82 | | | | | | | Grab | None | None | | |
| 5727 | 20WS-0130-SO5727-N-060220 | 6/2/2020 | 1520 | 0130 | Gulch | 7.73 | | | | | | | Grab | Low | Low | | |
| 5728 | 20WS-0130-SO5728-N-060220 | 6/2/2020 | 1530 | 0130 | Gulch | 5.42 | | 1 | 1 | 1 | | | 5-point | Low | Low | | 20WS-0130-SO5728-N-060220 |
| 5729 | 20WS-0130-SO5729-N-060220 | 6/2/2020 | 1545 | 0130 | Gulch | 4.76 | 1 | | | | | | 5-point | None | Low | | |
| 5730 | 20WS-0130-SO5730-N-060220 | 6/2/2020 | 1550 | 0130 | Gulch | 5.20 | | | | | | | Grab | Low | Low | | |
| 5731 | 20WS-0130-SO5731-N-060220 | 6/2/2020 | 1555 | 0130 | Gulch | 5.57 | 1 | | | | | | 7-point | Low | Low | | |
| 5732 | 20WS-0162-SO5732-N-060320 | 6/3/2020 | 0840 | 0162 | Marget Ann | 8.15 | | | | | 1 | | 30-point | None | None | | 20WS-0162-SO5732-N-060320 |
| 5733 | 20WS-0162-SO5733-N-060320 | 6/3/2020 | 0900 | 0162 | Marget Ann | 8.79 | | 1 | | | | | 9-point | None | None | | 20WS-0162-SO5733-N-060320 |
| 5734 | 20WS-0162-SO5734-N-060320 | 6/3/2020 | 0920 | 0162 | Marget Ann | 5.98 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5735 | 20WS-0162-SO5735-N-060320 | 6/3/2020 | 0925 | 0162 | Marget Ann | 4.77 | | | | | | | Grab | Moderate | None | | |
| 5736 | 20WS-0162-SO5736-N-060320 | 6/3/2020 | 0935 | 0162 | Marget Ann | 8.29 | 1 | | | | | | 5-point | Low | Low | | |
| 5737 | 20WS-0160-SO5737-N-060320 | 6/3/2020 | 0955 | 0160 | Rescue | 7.64 | | | | | | | Grab | Moderate | Moderate | | |
| 5738 | 20WS-0160-SO5738-N-060320 | 6/3/2020 | 1000 | 0160 | Rescue | 5.07 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5739 | 20WS-0160-SO5739-N-060320 | 6/3/2020 | 1005 | 0160 | Rescue | 8.13 | 1 | | | | | | 5-point | Low | Low | | |
| 5740 | 20WS-0160-SO5740-N-060320 | 6/3/2020 | 1015 | 0160 | Rescue | 7.36 | | | | | | | Grab | None | None | | |
| 5741 | 20WS-0160-SO5741-N-060320 | 6/3/2020 | 1025 | 0160 | Rescue | NA | | | | | | | NA | None | None | Vegetated Pit | |
| 5742 | 20WS-0158-SO5742-N-060320 | 6/3/2020 | 1110 | 0158 | Union | 4.23 | | | | | | | 5-point | None | Low | | |
| 5743 | 20WS-0158-SO5743-N-060320 | 6/3/2020 | 1115 | 0158 | Union | 4.58 | | | | | | | Grab | None | High | | |
| 5744 | 20WS-0157-SO5744-N-060320 | 6/3/2020 | 1120 | 0157 | Remnant | 3.31 | | 1 | | | | | 8-point | Low | Moderate | | 20WS-0157-SO5744-N-060320 |
| 5745 | 20WS-0158-SO5745-N-060320 | 6/3/2020 | 1130 | 0158 | Union | 7.67 | 1 | | | | | | 7-point | None | None | | |
| 5746 | 20WS-0158-SO5746-N-060320 | 6/3/2020 | 1140 | 0158 | Union | 4.05 | | | | | | | Grab | None | High | | |
| 5747 | 20WS-0158-SO5747-N-060320 | 6/3/2020 | 1145 | 0158 | Union | 3.41 | | | | | | | 5-point | None | Moderate | | |
| 5748 | 20WS-0158-SO5748-N-060320 | 6/3/2020 | 1150 | 0158 | Union | 4.40 | 1 | | | | | | 6-point | None | Moderate | | |
| 5749 | 20WS-0158-SO5749-N-060320 | 6/3/2020 | 1155 | 0158 | Union | 5.17 | | | | | | | Grab | None | High | | |
| 5750 | 20WS-0158-SO5750-N-060320 | 6/3/2020 | 1200 | 0158 | Union | 5.11 | | | | | | | Grab | Low | High | | |
| 5751 | 20WS-0153-SO5751-N-060320 | 6/3/2020 | 1245 | 0153 | Daisy B | 5.60 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5752 | 20WS-0138-SO5752-N-060320 | 6/3/2020 | 1335 | 0138 | Glengarry | 7.96 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5753 | 20WS-0138-SO5753-N-060320 | 6/3/2020 | 1345 | 0138 | Glengarry | 4.08 | | | | | | | Grab | Moderate | Moderate | | |
| 5754 | 20WS-0138-SO5754-N-060320 | 6/3/2020 | 1350 | 0138 | Glengarry | 6.37 | 1 | | | | | | 5-point | Moderate | High | | |
| 5755 | 20WS-0138-SO5755-N-060320 | 6/3/2020 | 1400 | 0138 | Glengarry | 8.14 | | | | | | | 5-point | None | None | | |
| 5756 | 20WS-0138-SO5756-N-060320 | 6/3/2020 | 1410 | 0138 | Glengarry | 5.15 | 1 | | | | | | 5-point | High | Moderate | | |
| 5757 | 20WS-0138-SO5757-N-060320 | 6/3/2020 | 1415 | 0138 | Glengarry | 5.56 | 1 | 1 | | | | | 5-point | High | Low | | 20WS-0138-SO5757-N-060320 |
| 5758 | 20WS-0138-SO5758-N-060320 | 6/3/2020 | 1500 | 0138 | Glengarry | 5.17 | 1 | | | | | | Grab | High | Low | | |
| 5759 | 20WS-0138-SO5759-N-060320 | 6/3/2020 | 1510 | 0138 | Glengarry | 5.13 | | | | | | | Grab | High | Moderate | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|----------|--------------|-------------|---------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|-------------------|--|
| 5760 | 20WS-0138-SO5760-N-060320 | 6/3/2020 | 1515 | 0138 | Glengarry | 8.87 | | | | | | | Grab | None | None | | |
| 5761 | 20WS-0138-SO5761-N-060320 | 6/3/2020 | 1525 | 0138 | Glengarry | 8.11 | 1 | | | | | | 5-point | High | Low | | |
| 5762 | 20WS-0138-SO5762-N-060320 | 6/3/2020 | 1535 | 0138 | Glengarry | 5.73 | 1 | | | | | | 8-point | High | High | | |
| 5763 | 20WS-0138-SO5763-N-060420 | 6/4/2020 | 0845 0855 | 0138 | Glengarry | 5.78 | | | | | 2 | | 30-point | None | None | MIS Duplicate | 20WS-0138-SO5763-N-060420 20WS-0138-SO5763-D-060420 |
| 5764 | 20WS-0122-SO5764-N-060420 | 6/4/2020 | 0925 | 0122 | Snow Drift | 4.03 | | | | | | | Grab | High | Moderate | | |
| 5765 | 20WS-0122-SO5765-N-060420 | 6/4/2020 | 0930 | 0122 | Snow Drift | 7.96 | 1 | | | | | | 5-point | High | Low | | |
| 5766 | 20WS-0122-SO5766-N-060420 | 6/4/2020 | 0935 | 0122 | Snow Drift | 8.08 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5767 | 20WS-0122-SO5767-N-060420 | 6/4/2020 | 0950 | 0122 | Snow Drift | 6.73 | | | | | | | 5-point | High | Moderate | | |
| 5768 | 20WS-0102-SO5768-N-060420 | 6/4/2020 | 1010 | 0102 | Valley Forge | NA | | | | | | | NA | None | None | Bedrock | |
| 5769 | 20WS-0102-SO5769-N-060420 | 6/4/2020 | 1015 | 0102 | Valley Forge | 6.91 | | | | | | | Grab | None | Moderate | | |
| 5770 | 20WS-0102-SO5770-N-060420 | 6/4/2020 | 1025 | 0102 | Valley Forge | 6.15 | 1 | | | | | | 5-point | Low | Low | | |
| 5771 | 20WS-0102-SO5771-N-060420 | 6/4/2020 | 1035 | 0102 | Valley Forge | 6.96 | | | | | | | Grab | None | Low | | |
| 5772 | 20WS-0122-SO5772-N-060420 | 6/4/2020 | 1050 | 0122 | Snow Drift | 5.85 | | | | | | | Grab | Low | Moderate | | |
| 5773 | 20WS-0122-SO5773-N-060420 | 6/4/2020 | 1055 | 0122 | Snow Drift | 5.07 | 1 | | | | | | 10-point | Low | High | | |
| 5774 | 20WS-0123-SO5774-N-060420 | 6/4/2020 | 1105 | 0123 | Kerry | 3.75 | | | | | | | Grab | NR | NR | | |
| 5775 | 20WS-0123-SO5775-N-060420 | 6/4/2020 | 1125 | 0123 | Kerry | 4.09 | 1 | | | | | | 5-point | High | Moderate | | |
| 5776 | 20WS-0138-SO5776-N-060320 | 6/3/2020 | 1210 | 0138 | Glengarry | 4.55 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 5777 | 20WS-0138-SO5777-N-060320 | 6/3/2020 | 1220 | 0138 | Glengarry | 4.90 | | | | | | | Grab | High | Low | | |
| 5778 | 20WS-0138-SO5778-N-060320 | 6/3/2020 | 1330 | 0138 | Glengarry | 8.55 | | | | | | | Grab | Low | None | | |
| 5779 | 20WS-0138-SO5779-N-060320 | 6/3/2020 | 1340 | 0138 | Glengarry | 8.49 | | | | | | | Grab | Low | None | | |
| 5780 | 20WS-0138-SO5780-N-060320 | 6/3/2020 | 1350 | 0138 | Glengarry | 8.48 | 1 | | | | | | 5-point | Low | None | | |
| 5781 | 20WS-0138-SO5781-N-060320 | 6/3/2020 | 1405 | 0138 | Glengarry | 8.43 | 1 | | | | | | Grab | Low | Moderate | | |
| 5782 | 20WS-0138-SO5782-N-060320 | 6/3/2020 | 1425 | 0138 | Glengarry | 4.59 | | | | | | | Grab | Moderate | Low | | |
| 5783 | 20WS-0138-SO5783-N-060320 | 6/3/2020 | 1440 | 0138 | Glengarry | 7.11 | 1 | | | | | | 5-point | High | Low | | |
| 5784 | 20WS-0138-SO5784-N-060320 | 6/3/2020 | 1450 | 0138 | Glengarry | 8.52 | | | | | | | Grab | Moderate | Low | | |
| 5785 | 20WS-0138-SO5785-N-060320 | 6/3/2020 | 1505 | 0138 | Glengarry | 3.74 | 1 | | | | | | Grab | Moderate | Moderate | | |
| 5786 | 20WS-0138-SO5786-N-060320 | 6/3/2020 | 1510 | 0138 | Glengarry | 7.65 | | | | | | | Grab | Low | Low | | |
| 5787 | 20WS-0138-SO5787-N-060320 | 6/3/2020 | 1520 | 0138 | Glengarry | 8.16 | | 1 | | | | | 5-point | Moderate | Low | | 20WS-0138-SO5787-N-060320 |
| 5788 | 20WS-0138-SO5788-N-060420 | 6/4/2020 | 0840 | 0138 | Glengarry | 8.45 | | | | | | | Grab | None | None | | |
| 5789 | 20WS-0138-SO5789-N-060420 | 6/4/2020 | 0850 | 0138 | Glengarry | 7.62 | | | | | | | Grab | Low | None | | |
| 5790 | 20WS-0138-SO5790-N-060420 | 6/4/2020 | 0900 | 0138 | Glengarry | 5.24 | 1 | | | | | | 5-point | Moderate | None | | |
| 5791 | 20WS-0138-SO5791-N-060420 | 6/4/2020 | 0910 | 0138 | Glengarry | 3.74 | | | | | | | Grab | Low | Moderate | | |
| 5792 | 20WS-0138-SO5792-N-060420 | 6/4/2020 | 0915 | 0138 | Glengarry | 5.67 | | | | | | | Grab | Low | Low | | |
| 5793 | 20WS-0138-SO5793-N-060420 | 6/4/2020 | 0920 | 0138 | Glengarry | 5.11 | 1 | | | | | | 6-point | Moderate | Moderate | | |
| 5794 | 20WS-0138-SO5794-N-060420 | 6/4/2020 | 0930 | 0138 | Glengarry | 5.22 | | | | | | | Grab | Moderate | Low | | |
| 5795 | 20WS-0138-SO5795-N-060420 | 6/4/2020 | 0940 | 0138 | Glengarry | 5.57 | | | | | | | 5-point | High | Low | | |
| 5796 | 20WS-0138-SO5796-N-060420 | 6/4/2020 | 0950 | 0138 | Glengarry | 7.07 | 1 | | | | | | 10-point | Moderate | Low | | |
| 5797 | 20WS-0138-SO5797-N-060420 | 6/4/2020 | 1000 | 0138 | Glengarry | 8.07 | | | | | | | 5-point | Moderate | Low | | |
| 5798 | 20WS-0138-SO5798-N-060420 | 6/4/2020 | 1010 | 0138 | Glengarry | 8.18 | | | | | | | Grab | Low | Low | | |
| 5799 | 20WS-0121-SO5799-N-060420 | 6/4/2020 | 1055 | 0121 | Harkaway | 6.45 | | | | | | | Grab | Low | Low | | |
| 5800 | 20WS-0121-SO5800-N-060420 | 6/4/2020 | 1110 | 0121 | Harkaway | 5.77 | | | | | | | Grab | None | None | | |
| 5801 | 20WS-0121-SO5801-N-060420 | 6/4/2020 | 1125 1130 | 0121 | Harkaway | 8.29 | | 2 | | | | | 7-point | Low | Low | Metals Duplicate | 20WS-0121-SO5801-N-060420 20WS-0121-SO5801-D-060420 |
| 5802 | 20WS-0121-SO5802-N-060420 | 6/4/2020 | 1140 | 0121 | Harkaway | 4.72 | | | | | | | 5-point | Low | Moderate | | |
| 5803 | 20WS-0121-SO5803-N-060420 | 6/4/2020 | 1150 | 0121 | Harkaway | 7.76 | 1 | | | | | | 5-point | Low | Low | | |
| 5804 | 20WS-0121-SO5804-N-060420 | 6/4/2020 | 1200 | 0121 | Harkaway | 5.01 | 1 | | | | | | 5-point | Low | Moderate | | |
| 5805 | 20WS-0121-SO5805-N-060420 | 6/4/2020 | 1205 | 0121 | Harkaway | 8.15 | | | | | | | Grab | Low | Low | | |
| 5806 | 20WS-0121-SO5806-N-060420 | 6/4/2020 | 1215 | 0121 | Harkaway | 8.59 | | | | | | | Grab | Low | Low | | |
| 5807 | 20WS-0121-SO5807-N-060420 | 6/4/2020 | 1340 | 0121 | Harkaway | 6.60 | | | | | | | Grab | None | None | | |
| 5808 | 20WS-0121-SO5808-N-060420 | 6/4/2020 | 1350 | 0121 | Harkaway | 5.99 | | | | | | | Grab | Low | None | | |
| 5809 | 20WS-0121-SO5809-N-060420 | 6/4/2020 | 1355 | 0121 | Harkaway | 5.78 | 1 | | | | | | Grab | Moderate | Low | | |
| 5810 | 20WS-1118-SO5810-N-060920 | 6/9/2020 | 0940 | 1118 | Josiah | NA | | | | | | | NA | None | None | Bare Area | |
| 5811 | 20WS-1118-SO5811-N-060920 | 6/9/2020 | 0950 | 1118 | Josiah | NA | | | | | | | NA | None | None | Bare Area | |
| 5812 | 20WS-1118-SO5812-N-060920 | 6/9/2020 | 1000 | 1118 | Josiah | NA | | | | | | | NA | Moderate | None | Bedrock | |
| 5813 | 20WS-1118-SO5813-N-060920 | 6/9/2020 | 1005 | 1118 | Josiah | 5.24 | | | | | | | Grab | None | None | | |
| 5814 | 20WS-1118-SO5814-N-060920 | 6/9/2020 | 1015 | 1118 | Josiah | NA | | | | | | | NA | None | Moderate | Trench | |
| 5815 | 20WS-1118-SO5815-N-060920 | 6/9/2020 | 1025 | 1118 | Josiah | 7.29 | 1 | | | | | | Grab | None | Low | Hazardous opening | |
| 5816 | 20WS-1118-SO5816-N-060920 | 6/9/2020 | 1045 | 1118 | Josiah | NA | | | | | | | NA | Moderate | Low | Bedrock | |
| 5817 | 20WS-1118-SO5817-N-060920 | 6/9/2020 | 1055 | 1118 | Josiah | 6.50 | | | | | | | Grab | Low | Low | | |
| 5818 | 20WS-1118-SO5818-N-060920 | 6/9/2020 | 1120 | 1118 | Josiah | NA | | | | | | | NA | None | None | Bare Area | |
| 5819 | 20WS-1116-SO5819-N-060920 | 6/9/2020 | 1140 | 1116 | Concentrator Placer | 5.56 | 1 | | | | | | 5-point | Moderate | None | | |
| 5820 | 20WS-1116-SO5820-N-060920 | 6/9/2020 | 1150 | 1116 | Concentrator Placer | 5.17 | | | | | | | Grab | Low | None | | |
| 5821 | 20WS-1116-SO5821-N-060920 | 6/9/2020 | 1155 | 1116 | Concentrator Placer | 5.20 | | 1 | | | | | 5-point | Moderate | Low | | 20WS-1116-SO5821-N-060920 |
| 5822 | 20WS-1116-SO5822-N-060920 | 6/9/2020 | 1210 | 1116 | Concentrator Placer | 5.74 | | | | | | | Grab | None | None | | |
| 5823 | 20WS-1116-SO5823-N-060920 | 6/9/2020 | 1340 | 1116 | Concentrator Placer | 8.27 | | | | | 1 | | 30-point | None | None | | 20WS-1116-SO5823-N-060920 |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|--------------|-------------|----------------------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|---|--|
| 5824 | 20WS-1116-SO5824-N-060920 | 6/9/2020 | 1415 | 1116 | Concentrator Placer | NA | | | | | | | NA | Low | None | Bedrock | |
| 5825 | 20WS-1116-SO5825-N-060920 | 6/9/2020 | 1445 | 1116 | Concentrator Placer | 6.09 | | | | | | | Grab | High | Low | Slag in soil | |
| 5826 | 20WS-0123-SO5826-N-060420 | 6/4/2020 | 1130 | 0123 | Kerry | 4.88 | | | | | | | Grab | High | Moderate | | |
| 5827 | 20WS-0123-SO5827-N-060420 | 6/4/2020 | 1135 | 0123 | Kerry | 6.14 | 1 | | | | | | 5-point | High | Low | | |
| 5828 | 20WS-0123-SO5828-N-060420 | 6/4/2020 | 1145 | 0123 | Kerry | 2.96 | | 1 | | | | | 5-point | None | High | | 20WS-0123-SO5828-N-060420 |
| 5829 | 20WS-0123-SO5829-N-060420 | 6/4/2020 | 1150 | 0123 | Kerry | 4.37 | | 1 | | | | | 5-point | High | Low | | 20WS-0123-SO5829-N-060420 |
| 5830 | 20WS-0122-SO5830-N-060420 | 6/4/2020 | 1235 | 0122 | Snow Drift | 5.62 | | | | | | | Grab | High | Moderate | | |
| 5831 | 20WS-0122-SO5831-N-060420 | 6/4/2020 | 1240 | 0122 | Snow Drift | 7.20 | 1 | | | | | | 5-point | High | Low | | |
| 5832 | 20WS-0122-SO5832-N-060420 | 6/4/2020 | 1250 | 0122 | Snow Drift | 4.93 | | | | | | | Grab | Moderate | Low | | |
| 5833 | 20WS-0122-SO5833-N-060420 | 6/4/2020 | 1255 | 0122 | Snow Drift | 6.78 | | | | | | | Grab | High | Moderate | | |
| 5834 | 20WS-0122-SO5834-N-060420 | 6/4/2020 | 1300 | 0122 | Snow Drift | 6.41 | 1 | | | | | | 5-point | High | High | | |
| 5835 | 20WS-0122-SO5835-N-060420 | 6/4/2020 | 1305 | 0122 | Snow Drift | 5.03 | | | | | | | Grab | High | Moderate | | |
| 5836 | 20WS-0122-SO5836-N-060420 | 6/4/2020 | 1315 | 0122 | Snow Drift | 5.94 | | | | | | | Grab | Moderate | Moderate | | |
| 5837 | 20WS-0122-SO5837-N-060420 | 6/4/2020 | 1325 | 0122 | Snow Drift | 5.27 | 1 | | | | | | 5-point | Low | Low | | |
| 5838 | 20WS-0122-SO5838-N-060420 | 6/4/2020 | 1335 | 0122 | Snow Drift | 6.12 | | | | | | | 5-point | Moderate | High | | |
| 5839 | 20WS-0122-SO5839-N-060420 | 6/4/2020 | 1345 | 0122 | Snow Drift | 6.30 | 1 | | | | | | 5-point | Low | Low | | |
| 5840 | 20WS-0350-SO5840-N-060420 | 6/4/2020 | 1445 | 0350 | Belcher | 4.65 | | 1 | | | | | 5-point | Moderate | Moderate | | 20WS-0350-SO5840-N-060420 |
| 5841 | 20WS-0350-SO5841-N-060420 | 6/4/2020 | 1450 | 0350 | Belcher | 5.45 | | 1 | | | | | 5-point | Moderate | High | | 20WS-0350-SO5841-N-060420 |
| 5842 | 20WS-1114-SO5842-N-060920 | 6/9/2020 | 0915 | 1114 | Virgo | 5.66 | | | | | | | Grab | None | None | | |
| 5843 | 20WS-1114-SO5843-N-060920 | 6/9/2020 | 0920 | 1114 | Virgo | NA | | | | | | | NA | None | None | Well Vegetated Area | |
| 5844 | 20WS-1114-SO5844-N-060920 | 6/9/2020 | 0925 | 1114 | Virgo | NA | | | | | | | NA | None | None | Bare Area | |
| 5845 | 20WS-1114-SO5845-N-060920 | 6/9/2020 | 0930 | 1114 | Virgo | 5.41 | | | | | | | 5-point | None | Low | | |
| 5846 | 20WS-1115-SO5846-N-060920 | 6/9/2020 | 0945 | 1115 | Jewel | 6.25 | 1 | | | | | | 5-point | Low | Low | | |
| 5847 | 20WS-1115-SO5847-N-060920 | 6/9/2020 | 0955 | 1115 | Jewel | 7.23 | | | | | | | Grab | None | Low | | |
| 5848 | 20WS-1115-SO5848-N-060920 | 6/9/2020 | 1000 | 1115 | Jewel | 7.42 | | | | | | | Grab | None | Moderate | | |
| 5849 | 20WS-1115-SO5849-N-060920 | 6/9/2020 | 1005 | 1115 | Jewel | 5.46 | | 1 | | | | | 5-point | High | Low | | 20WS-1115-SO5849-N-060920 |
| 5850 | 20WS-1115-SO5850-N-060920 | 6/9/2020 | 1010 | 1115 | Jewel | 7.20 | 1 | | | | | | Grab | Low | Low | | |
| 5851 | 20WS-1115-SO5851-N-060920 | 6/9/2020 | 1030 | 1115 | Jewel | 8.77 | 1 | | | | | | 5-point | None | Low | | |
| 5852 | 20WS-1115-SO5852-N-060920 | 6/9/2020 | 1045 | 1115 | Jewel | 5.52 | 1 | | | | | | 5-point | None | None | | |
| 5853 | 20WS-1114-SO5853-N-060920 | 6/9/2020 | 1105 | 1114 | Virgo | 4.64 | 1 | | | | | | 5-point | Low | Low | | |
| 5854 | 20WS-1114-SO5854-N-060920 | 6/9/2020 | 1115 | 1114 | Virgo | 5.47 | | 1 | | | | | 5-point | Moderate | High | | 20WS-1114-SO5854-N-060920 |
| 5855 | 20WS-1113-SO5855-N-060920 | 6/9/2020 | 1140 | 1113 | Carrie | 6.10 | | | | | | | Grab | Low | Low | | |
| 5856 | 20WS-1113-SO5856-N-060920 | 6/9/2020 | 1145 | 1113 | Carrie | 5.80 | 1 | | | | | | 5-point | Low | Low | | |
| 5857 | 20WS-1113-SO5857-N-060920 | 6/9/2020 | 1245 | 1113 | Carrie | 6.77 | 1 | | | | | | 5-point | Moderate | Low | | |
| 5858 | 20WS-1113-SO5858-N-060920 | 6/9/2020 | 1250 1300 | 1113 | Carrie | 3.39 | | 1 | 2 | 2 | | | 5-point | None | Moderate | SPLP and ABA Duplicate | 20WS-1113-SO5858-N-060920 20WS-1113-SO5858-D-060920 |
| 5859 | 20WS-1113-SO5859-N-060920 | 6/9/2020 | 1305 | 1113 | Carrie | 2.26 | 1 | | | | | | Grab | Low | Low | | |
| 5860 | 20WS-1112-SO5860-N-060920 | 6/9/2020 | 1405 | 1112 | Nora | 5.55 | 1 | | | | | | 5-point | None | None | | |
| 5861 | 20WS-1016-SO5861-N-060920 | 6/9/2020 | 1450 | 1016 | Eagle Bird | NA | | | | | | | NA | None | None | Bedrock | |
| 5862 | 20WS-1016-SO5862-N-060920 | 6/9/2020 | 1500 | 1016 | Eagle Bird | 5.53 | | | | | | | 5-point | Moderate | Low | | |
| 5863 | 20WS-1016-SO5863-N-060920 | 6/9/2020 | 1505 | 1016 | Eagle Bird | 5.46 | 1 | | | | | | 5-point | High | Moderate | | |
| 5864 | 20WS-1016-SO5864-N-060920 | 6/9/2020 | 1510 | 1016 | Eagle Bird | 5.88 | | | | | | | 5-point | High | Moderate | | |
| 5865 | 20WS-1101-SO5865-N-060920 | 6/9/2020 | 1520 | 1072 | Celestina | NA | | | | | | | NA | None | None | Bedrock | |
| 5866 | 20WS-1007-SO5866-N-060920 | 6/9/2020 | 1535 | 1007 | Beratto Extension | 7.11 | 1 | | | | | | 5-point | Low | Low | | |
| 5867 | 20WS-1101-SO5867-N-060920 | 6/9/2020 | 1530 | 1101 | Celestina | NA | | | | | | | NA | None | None | Bedrock | |
| 5868 | 20WS-1072-SO5868-N-060920 | 6/9/2020 | 1545 | 1072 | Spur | NA | | | | | | | NA | None | None | Bedrock | |
| 5869 | 20WS-1016-SO5869-N-060920 | 6/9/2020 | 1555 | 1016 | Eagle Bird | 6.41 | | | | | | | Grab | Low | Low | | |
| 5870 | 20WS-1016-SO5870-N-061020 | 6/10/2020 | 0835 | 1016 | Eagle Bird | 5.90 | 1 | | | | | | Grab | High | Low | | |
| 5871 | 20WS-0607-SO5871-N-061020 | 6/10/2020 | 0855 | 0607 | Helen Blazes | 7.68 | 1 | | | | | | 5-point | High | Low | | |
| 5872 | 20WS-0607-SO5872-N-061020 | 6/10/2020 | 0905 | 0607 | Helen Blazes | 6.02 | 1 | | | | | | 5-point | High | Moderate | | |
| 5873 | 20WS-0607-SO5873-N-061020 | 6/10/2020 | 0915 | 0607 | Helen Blazes | 8.21 | | | | | | | 5-point | Low | Low | | |
| 5874 | 20WS-0607-SO5874-N-061020 | 6/10/2020 | 0925 | 0607 | Helen Blazes | 8.34 | | | | | | | Grab | None | Low | | |
| 5875 | 20WS-0607-SO5875-N-061020 | 6/10/2020 | 0930 | 0607 | Helen Blazes | 8.65 | | | | | | | Grab | None | None | | |
| 5877 | 20WS-0003-SO5877-N-061020 | 6/10/2020 | 0945 | 0003 | Humboldt | 8.43 | | | | | | 1 | 30-point | None | None | | 20WS-0003-SO5877-N-061020 |
| 5878 | 20WS-0003-SO5878-N-061020 | 6/10/2020 | 1005 | 0003 | Humboldt | 5.22 | | | | | | 1 | 8-point | High | Low | | 20WS-0003-SO5878-N-061020 |
| 5879 | 20WS-0006-SO5879-N-061020 | 6/10/2020 | 1030 | 0006 | Mountain Boy | 4.98 | | | | | | 1 | 5-point | High | Low | | 20WS-0006-SO5879-N-061020 |
| 5880 | 20WS-0040-SO5880-N-061020 | 6/10/2020 | 1115 | 0040 | Elba | 6.63 | | | | | | 1 | 5-point | Low | Moderate | | 20WS-0040-SO5880-N-061020 |
| 5881 | 20WS-0288-SO5881-N-061020 | 6/10/2020 | 1210 | 0288 | Nettie | 5.74 | | | | | | 1 | 5-point | Moderate | Moderate | | 20WS-0288-SO5881-N-061020 |
| 5882 | 20WS-0288-SO5882-N-061020 | 6/10/2020 | 1230 | 0288 | Nettie | 8.66 | | | | | | 1 | 10-point | Low | Moderate | | 20WS-0288-SO5882-N-061020 |
| 5883 | 20WS-0288-SO5883-N-061020 | 6/10/2020 | 1245 | 0288 | Nettie | 6.62 | | | | | | 1 | 30-point | None | None | | 20WS-0288-SO5883-N-061020 |
| 5884 | 20WS-0015-SO5884-N-061020 | 6/10/2020 | 1345 | 0015 | Milwaukee | 3.73 | | | | | | 1 | 5-point | Moderate | Moderate | | 20WS-0015-SO5884-N-061020 |
| 5963 | 20WS-1124-SO5963-N-072820 | 7/28/2020 | 1045 | 1124 | (01119830218230000) Shley AVE | 7.24 | 1 | | | | | | NR | None | None | Sample from prelim investigation of parcel later removed from UAO | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|--------------|-------------|---------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|---|--|
| 5964 | 20WS-1116-SO5964-N-060920 | 6/9/2020 | 1450 | 1116 | Concentrator Placer | 4.98 | | | | | | | Grab | Low | None | some slag in soil; orig # SO 5826 was used by mistake. Accidentally double assigned SO numbers 5876 and 5964 to this sample. Deleted SO5876 | |
| 6284 | 21WS-1045-SO6284-N-092021 | 9/20/2021 | 1105 | 1045 | Tzarena | NA | | | | | | | NA | None | None | Natural Feature | |
| 6285 | 21WS-0002-SO6285-N-092021 | 9/20/2021 | 1130 | 0002 | Portland | 9.01 | | 1 | | | | | 8-point | None | Low | | 21WS-0002-SO6285-N-092021 |
| 6286 | 21WS-0003-SO6286-N-092021 | 9/20/2021 | 1200 | 0003 | Humboldt | 6.52 | 1 | | | | | | 5-point | High | Low | | |
| 6287 | 21WS-0003-SO6287-N-092021 | 9/20/2021 | 1220 | 0003 | Humboldt | 7.21 | 1 | | | | | | 10-point | Low | Low | | |
| 6288 | 21WS-0003-SO6288-N-092021 | 9/20/2021 | 1240 | 0003 | Humboldt | 7.82 | | | | | | | Grab | Moderate | Moderate | | |
| 6289 | 21WS-0003-SO6289-N-092021 | 9/20/2021 | 1250 | 0003 | Humboldt | NA | | | | | | | NA | High | Moderate | Bedrock outcrop | |
| 6290 | 21WS-0002-SO6290-N-092021 | 9/20/2021 | 1310 | 0003 | Humboldt | 5.62 | 1 | | | | | | 5-point | Low | Low | | |
| 6291 | 21WS-0003-SO6291-N-092021 | 9/20/2021 | 1430 | 0003 | Humboldt | 6.12 | 1 | | | | | | 5-point | Low | Low | | |
| 6292 | 21WS-0003-SO6292-N-092021 | 9/20/2021 | 1440 | 0003 | Humboldt | 6.65 | | | | | | | 3-point | Low | Low | | |
| 6293 | 21WS-0003-SO6293-N-092021 | 9/20/2021 | 1455 | 0003 | Humboldt | NA | | | | | | | NA | None | None | Natural Feature | |
| 6294 | 21WS-0003-SO6294-N-092021 | 9/20/2021 | 1530 | 0003 | Humboldt | 5.35 | 1 | 1 | | | | | 7-point | Low | None | | 21WS-0003-SO6294-N-092021 |
| 6295 | 21WS-0006-SO6295-N-092021 | 9/20/2021 | 1600 | 0006 | Mountain Boy | 6.29 | 1 | | | | | | 5-point | Low | None | | |
| 6296 | 21WS-0006-SO6296-N-092021 | 9/20/2021 | 1620 | 0006 | Mountain Boy | 5.76 | 1 | | | | | | 5-point | High | Moderate | | |
| 6297 | 21WS-0006-SO6297-N-092021 | 9/20/2021 | 1630 | 0006 | Mountain Boy | NA | | | | | | | NA | Na | NA | Natural Feature | |
| 6298 | 21WS-0040-SO6298-N-092121 | 9/21/2021 | 0845 | 0040 | Elba | 5.85 | 1 | | | | | | 5-point | Low | None | | |
| 6299 | 21WS-0040-SO6299-N-092121 | 9/21/2021 | 0855 | 0040 | Elba | 5.95 | 1 | | | | | | Grab | None | None | | |
| 6300 | 21WS-0040-SO6300-N-092121 | 9/21/2021 | 0900 | 0040 | Elba | 5.57 | | | | | | | Grab | None | None | | |
| 6301 | 21WS-0041-SO6301-N-092121 | 9/21/2021 | 0910 | 0041 | Katie T | NA | | | | | | | NA | None | None | Natural Feature | |
| 6302 | 21WS-0010-SO6302-N-092121 | 9/21/2021 | 0940 0945 | 0010 | Minnie Jane | 5.83 | | 2 | 2 | 2 | | | 8-point | High | Moderate | | 21WS-0010-SO6302-N-092121 21WS-0010-SO6302-D-092121 |
| 6303 | 21WS-0010-SO6303-N-092121 | 9/21/2021 | 1000 | 0010 | Minnie Jane | 5.61 | 1 | | | | | | 3-point | High | Low | | |
| 6304 | 21WS-0010-SO6304-N-092121 | 9/21/2021 | 1005 | 0010 | Minnie Jane | NA | | | | | | | NA | None | Low | placed riprap from rock quarry | |
| 6305 | 21WS-0010-SO6305-N-092121 | 9/21/2021 | 1010 | 0010 | Minnie Jane | 5.59 | | | | | | | Grab | High | High | | |
| 6306 | 21WS-0010-SO6306-N-092121 | 9/21/2021 | 1020 | 0010 | Minnie Jane | 8.41 | 1 | | | | | | 5-point | None | None | | |
| 6307 | 21WS-0010-SO6307-N-092121 | 9/21/2021 | 1025 | 0010 | Minnie Jane | 7.71 | | | | | | | 3-point | None | None | | |
| 6308 | 21WS-0010-SO6308-N-092121 | 9/21/2021 | 1035 | 0010 | Minnie Jane | 7.50 | 1 | | | | | | 3-point | Low | Moderate | | |
| 6309 | 21WS-0013-SO6309-N-092121 | 9/21/2021 | 1125 | 0013 | Georgie | 7.46 | 1 | | | | | | Grab | Low | Moderate | | |
| 6310 | 21WS-0012-SO6310-N-092121 | 9/21/2021 | 1135 | 0012 | Prospector | 8.39 | 1 | | | | | | 5-point | None | None | | |
| 6311 | 21WS-0010-SO6311-N-092121 | 9/21/2021 | 1145 | 0010 | Minnie Jane | 8.51 | 1 | | | | | | 3-point | None | None | | |
| 6312 | 21WS-0010-SO6312-N-092121 | 9/21/2021 | 1150 | 0010 | Minnie Jane | NA | | | | | | | NA | NA | NA | patch of old asphalt millings | |
| 6313 | 21WS-0013-SO6313-N-092121 | 9/21/2021 | 1200 1205 | 0013 | Georgie | 8.36 | | 2 | | | | | 10-point | Low | Low | | 21WS-0013-SO6313-N-092121 21WS-0013-SO6313-D-092121 |
| 6314 | 21WS-0013-SO6314-N-092121 | 9/21/2021 | 1240 | 0013 | Georgie | 6.99 | 1 | | | | | | 10-point | None | None | | |
| 6315 | 21WS-0014-SO6315-N-092121 | 9/21/2021 | 1255 | 0014 | Cuneate | 7.52 | 1 | | | | | | 3-point | None | None | | |
| 6316 | 21WS-0015-SO6316-N-092121 | 9/21/2021 | 1300 | 0015 | Milwaukee | NA | | | | | | | NA | None | None | Natural Feature | |
| 6317 | 21WS-0016-SO6317-N-092121 | 9/21/2021 | 1315 | 0016 | Orphan Boy | 6.02 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 6318 | 21WS-0016-SO6318-N-092121 | 9/21/2021 | 1325 | 0016 | Orphan Boy | 3.94 | 1 | | | | | | Grab | Moderate | High | | |
| 6319 | 21WS-0016-SO6319-N-092121 | 9/21/2021 | 1330 | 0016 | Orphan Boy | 5.96 | | | | | | | 3-point | Moderate | Moderate | | |
| 6320 | 21WS-0016-SO6320-N-092121 | 9/21/2021 | 1335 | 0016 | Orphan Boy | 6.46 | 1 | | | | | | 5-point | None | None | | |
| 6321 | 21WS-0016-SO6321-N-092221 | 9/22/2021 | 0840 | 0016 | Orphan Boy | 7.85 | 1 | | | | | | 5-point | Low | High | | |
| 6322 | 21WS-0016-SO6322-N-092221 | 9/22/2021 | 0850 | 0016 | Orphan Boy | 7.98 | | | | | | | Grab | Low | High | | |
| 6323 | 21WS-0016-SO6323-N-092221 | 9/22/2021 | 0905 | 0016 | Orphan Boy | 8.25 | 1 | | | | | | Grab | None | Low | | |
| 6324 | 21WS-0016-SO6324-N-092221 | 9/22/2021 | 0910 | 0016 | Orphan Boy | NA | | | | | | | NA | NA | NA | Shallow granite bedrock | |
| 6325 | 21WS-0016-SO6325-N-092221 | 9/22/2021 | 0920 | 0016 | Orphan Boy | 7.13 | | 1 | | | | | 5-point | Low | High | | 21WS-0016-SO6325-N-092221 |
| 6326 | 21WS-0017-SO6326-N-092221 | 9/22/2021 | 0950 | 0017 | Kit Carson | 6.23 | 1 | | | | | | 3-point | None | High | | |
| 6327 | 21WS-0015-SO6327-N-092221 | 9/22/2021 | 1150 | 0015 | Milwaukee | 8.26 | 1 | | | | | | 3-point | None | None | | |
| 6328 | 21WS-0015-SO6328-N-092221 | 9/22/2021 | 1200 | 0015 | Milwaukee | 7.84 | 1 | | | | | | 5-point | None | None | | |
| 6329 | 21WS-0300-SO6329-N-092221 | 9/22/2021 | 1225 | 0300 | Tom Haney | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6330 | 21WS-0311-SO6330-N-092221 | 9/22/2021 | 1240 | 0311 | Little Gem | 5.23 | 1 | | | | | | 3-point | Low | Moderate | | |
| 6331 | 21WS-0319-SO6331-N-092221 | 9/22/2021 | 1310 | 0319 | Nile | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6332 | 21WS-0319-SO6332-N-092221 | 9/22/2021 | 1330 | 0319 | Nile | 8.61 | | 1 | | | | | 5-point | Low | Moderate | | 21WS-0319-SO6332-N-092221 |
| 6333 | 21WS-0315-SO6333-N-092221 | 9/22/2021 | 1350 | 0315 | Garibaldi | 8.26 | 1 | | | | | | Grab | Low | Moderate | | |
| 6334 | 21WS-0315-SO6334-N-092221 | 9/22/2021 | 1400 | 0315 | Garibaldi | NA | | | | | | | NA | High | Low | Exposed bedrock outcrop | |
| 6335 | 21WS-0315-SO6335-N-092221 | 9/22/2021 | 1410 | 0315 | Garibaldi | 6.46 | 1 | | | | | | 5-point | Low | Moderate | | |
| 6336 | 21WS-0315-SO6336-N-092221 | 9/22/2021 | 1420 | 0315 | Garibaldi | 7.61 | | | | | | | 8-point | Low | Moderate | | |
| 6337 | 21WS-0296-SO6337-N-092321 | 9/23/2021 | 0845 | 0296 | Philadelphia | 6.26 | 1 | 1 | | | | | 5-point | High | None | | 21WS-0296-SO6337-N-092321 |
| 6338 | 21WS-0296-SO6338-N-092321 | 9/23/2021 | 0910 | 0296 | Philadelphia | 5.82 | | | | | | | Grab | High | Low | | |
| 6339 | 21WS-0296-SO6339-N-092321 | 9/23/2021 | 0915 | 0296 | Philadelphia | 5.89 | | | | | | | Grab | Low | Low | | |
| 6340 | 21WS-0296-SO6340-N-092321 | 9/23/2021 | 0920 | 0296 | Philadelphia | 5.13 | 1 | | | | | | 3-point | Low | Low | | |
| 6341 | 21WS-1150-SO6341-N-092321 | 9/23/2021 | 0935 | 1150 | General Washington | 5.74 | 1 | | | | | | 5-point | Low | Low | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|---------------|---------------------------|-----------|------|-------------|---------------------|----------------------|-----|--------|------|-----|-----|------|-------------|-------------|-------------|---|---------------------------|
| 6342 | 21WS-0015-SO6342-N-092321 | 9/23/2021 | 0950 | 0015 | Millwaukee | NA | | | | | | | NA | NA | NA | Bedrock outcrop | |
| 6343 | 21WS-0015-SO6343-N-092321 | 9/23/2021 | 0955 | 0015 | Millwaukee | 6.74 | 1 | | | | | | 8-point | Low | Low | | |
| 6344 | 21WS-0015-SO6344-N-092321 | 9/23/2021 | 1015 | 0015 | Millwaukee | 8.61 | 1 | | | | | | 5-point | Low | Low | | |
| 6345 | 21WS-0015-SO6345-N-092321 | 9/23/2021 | 1020 | 0015 | Millwaukee | 6.88 | | | | | | | Grab | Low | High | | |
| 6346 | 21WS-0015-SO6346-N-092321 | 9/23/2021 | 1030 | 0015 | Millwaukee | 7.07 | | 1 | | | | | 5-point | High | Moderate | | 21WS-0015-SO6346-N-092321 |
| 6347 | 21WS-0015-SO6347-N-092321 | 9/23/2021 | 1045 | 0015 | Millwaukee | 6.42 | 1 | 1 | | | | | 10-point | Moderate | Moderate | | 21WS-0015-SO6347-N-092321 |
| 6348 | 21WS-0301-SO6348-N-092321 | 9/23/2021 | 1125 | 0301 | Self Rising | 7.14 | 1 | | | | | | 5-point | None | Low | | |
| 6349 | 21WS-0015-SO6349-N-092321 | 9/23/2021 | 1140 | 0015 | Millwaukee | 5.25 | 1 | | | | | | 5-point | High | High | | |
| 6350 | 21WS-0301-SO6350-N-092321 | 9/23/2021 | 1155 | 0301 | Self Rising | 8.08 | 1 | | | | | | 5-point | None | Moderate | | |
| 6351 | 21WS-0296-SO6351-N-092321 | 9/23/2021 | 1245 | 0296 | Philadelphia | 5.63 | 1 | | | | | | 10-point | Moderate | Low | | |
| 6355 | 21WS-0289-SO6355-N-092321 | 9/23/2021 | 1310 | 0289 | Hibernia | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6352 | 21WS-0296-SO6352-N-092321 | 9/23/2021 | 1300 | 0296 | Philadelphia | 3.48 | 1 | | | | | | 5-point | Low | High | | |
| 6353 | 21WS-0296-SO6353-N-092321 | 9/23/2021 | 1315 | 0296 | Philadelphia | 7.94 | 1 | | | | | | 5-point | High | High | | |
| 6354 | 21WS-0296-SO6354-N-092321 | 9/23/2021 | 1330 | 0296 | Philadelphia | 6.04 | 1 | | | | | | 5-point | High | High | | |
| 6356 | 21WS-0289-SO6356-N-092321 | 9/23/2021 | 1345 | 0289 | Hibernia | 7.97 | 1 | | | | | | 5-point | Moderate | High | | |
| 6357 | 21WS-0288-SO6357-N-092321 | 9/23/2021 | 1400 | 0288 | Nettie | 5.34 | 1 | | | | | | 7-point | High | Low | | |
| 6358 | 21WS-0288-SO6358-N-092321 | 9/23/2021 | 1410 | 0288 | Nettie | 5.07 | 1 | | | | | | 5-point | Low | Moderate | | |
| 6359 | 21WS-0297-SO6359-N-092321 | 9/23/2021 | 1440 | 0297 | Key West | 4.14 | 1 | | | | | | Grab | Moderate | High | | |
| 6360 | 21WS-0297-SO6360-N-092321 | 9/23/2021 | 1445 | 0297 | Key West | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6361 | 21WS-0290-SO6361-N-092321 | 9/23/2021 | 1520 | 0290 | Horse Shoe | 7.80 | 1 | | | | | | Grab | Low | Low | | |
| 6362 | 21WS-0291-SO6362-N-092321 | 9/23/2021 | 1535 | 0296 | Colonel Funston | 5.38 | 1 | | | | | | 10-point | High | Mo | | |
| 6363 | 21WS-0296-SO6363-N-092321 | 9/23/2021 | 1550 | 0296 | Philadelphia | 5.87 | 1 | | | | | | 3-point | High | Low | | |
| 6364 | 21WS-0285-SO6364-N-092721 | 9/27/2021 | 0905 | 0285 | Burlington | 5.02 | 1 | | | | | | 3-point | Low | Moderate | | |
| 6365 | 21WS-0285-SO6365-N-092721 | 9/27/2021 | 0915 | 0285 | Burlington | 5.29 | 1 | | | | | | 5-point | Moderate | Moderate | | |
| 6366 | 21WS-0285-SO6366-N-092721 | 9/27/2021 | 0930 | 0285 | Burlington | 5.61 | | 1 | | | | | 10-point | Low | Low | | 21WS-0285-SO6366-N-092721 |
| 6367 | 21WS-0285-SO6367-N-092721 | 9/27/2021 | 0940 | 0285 | Burlington | NA | | | | | | | NA | High | NA | Bedrock outcrop | |
| 6368 | 21WS-0285-SO6368-N-092721 | 9/27/2021 | 0950 | 0285 | Burlington | 5.58 | 1 | | | | | | 12-point | Low | Low | | |
| 6369 | 21WS-0285-SO6369-N-092721 | 9/27/2021 | 1005 | 0285 | Burlington | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6370 | 21WS-0299-SO6370-N-092721 | 9/27/2021 | 1015 | 0299 | Fredonia | 8.49 | 1 | | | | | | 5-point | Low | Moderate | | |
| 6371 | 21WS-0298-SO6371-N-092721 | 9/27/2021 | 1035 | 0298 | Cora No. 2 | 7.02 | 1 | | | | | | Grab | Moderate | High | | |
| 6372 | 21WS-0298-SO6372-N-092721 | 9/27/2021 | 1045 | 0298 | Cora No. 2 | 4.76 | 1 | | | | | | 7-point | Low | Low | | |
| 6373 | 21WS-0285-SO6373-N-092721 | 9/27/2021 | 1125 | 0285 | Burlington | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6374 | 21WS-0285-SO6374-N-092721 | 9/27/2021 | 1130 | 0285 | Burlington | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6375 | 21WS-0285-SO6375-N-092721 | 9/27/2021 | 1135 | 0285 | Burlington | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6376 | 21WS-0285-SO6376-N-092721 | 9/27/2021 | 1140 | 0285 | Burlington | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6377 | 21WS-0246-SO6377-N-092721 | 9/27/2021 | 1235 | 0246 | Independent | 6.39 | 1 | | | | | | 5-point | Low | Low | | |
| 6378 | 21WS-1116-SO6378-N-092721 | 9/27/2021 | 1615 | 1116 | Concentrator Placer | 7.17 | | 1 | 1 | 1 | | | 5-point | Low | Low | | 21WS-1116-SO6378-N-092721 |
| 6379 | 21WS-1116-SO6379-N-092721 | 9/27/2021 | 1630 | 1116 | Concentrator Placer | 5.95 | 1 | | | | | | 5-point | Moderate | Low | | |
| 6380 | 21WS-1116-SO6380-N-092721 | 9/27/2021 | 1635 | 1116 | Concentrator Placer | 5.76 | 1 | | | | | | Grab | Low | Moderate | | |
| 6381 | 21WS-1072-SO6381-N-092821 | 9/28/2021 | 0855 | 1072 | Spur | 6.31 | 1 | | | | | | 5-point | High | Moderate | | |
| 6382 | 21WS-1072-SO6382-N-092821 | 9/28/2021 | 0910 | 1072 | Spur | 5.49 | 1 | | | | | | 5-point | High | Moderate | | |
| 6383 | 21WS-1072-SO6383-N-092821 | 9/28/2021 | 0915 | 1072 | Spur | 3.38 | 1 | | | | | | 5-point | Low | High | | |
| 6384 | 21WS-1072-SO6384-N-092821 | 9/28/2021 | 0920 | 1072 | Spur | 6.97 | | | | | | | Grab | High | Moderate | | |
| 6385 | 21WS-1072-SO6385-N-092821 | 9/28/2021 | 0925 | 1072 | Spur | 4.93 | 1 | 1 | | | | | 8-point | High | High | | 21WS-1072-SO6385-N-092821 |
| 6386 | 21WS-1072-SO6386-N-092821 | 9/28/2021 | 0935 | 1072 | Spur | 3.87 | | | | | | | Grab | Low | High | | |
| 6387 | 21WS-1072-SO6387-N-092821 | 9/28/2021 | 0940 | 1072 | Spur | 8.11 | 1 | | | | | | Grab | Low | Low | | |
| 6388 | 21WS-1072-SO6388-N-092821 | 9/28/2021 | 0945 | 1072 | Spur | NA | | | | | | | NA | NA | NA | Bedrock outcrop | |
| 6389 | 21WS-1072-SO6389-N-092821 | 9/28/2021 | 0950 | 1072 | Spur | 5.34 | 1 | | | | | | 5-point | Moderate | High | | |
| 6390 | 21WS-1072-SO6390-N-092821 | 9/28/2021 | 0955 | 1072 | Spur | 5.04 | 1 | | | | | | 3-point | High | Low | | |
| 6391 | 21WS-1072-SO6391-N-092821 | 9/28/2021 | 1000 | 1072 | Spur | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6392 | 21WS-1072-SO6392-N-092821 | 9/28/2021 | 1010 | 1072 | Spur | 7.21 | 1 | | | | | | 3-point | Low | High | | |
| 6393 | 21WS-1072-SO6393-N-092821 | 9/28/2021 | 1015 | 1072 | Spur | 4.69 | | | | | | | Grab | High | Moderate | | |
| 6394 | 21WS-1016-SO6394-N-092821 | 9/28/2021 | 1020 | 1016 | Eagle Bird | 7.47 | 1 | | | | | | 5-point | None | None | | |
| 6395 | 21WS-1016-SO6395-N-092821 | 9/28/2021 | 1030 | 1016 | Eagle Bird | NA | | | | | | | NA | NA | NA | Potential overburden from interstate construction | |
| 6396 | 21WS-1016-SO6396-N-092821 | 9/28/2021 | 1040 | 1016 | Eagle Bird | 5.42 | 1 | | | | | | 4-point | High | Moderate | | |
| 6397 | 21WS-1111-SO6397-N-092821 | 9/28/2021 | 1150 | 1111 | Lizzie | 7.53 | 1 | | | | | | 5-point | None | Moderate | | |
| 6398 | 21WS-1111-SO6398-N-092821 | 9/28/2021 | 1200 | 1111 | Lizzie | 5.58 | 1 | | | | | | 5-point | None | Moderate | | |
| 6399 | 21WS-1111-SO6399-N-092821 | 9/28/2021 | 1210 | 1111 | Lizzie | 3.81 | | 1 | | | | | Grab | None | None | | 21WS-1111-SO6399-N-092821 |
| 6400 | 21WS-1111-SO6400-N-092821 | 9/28/2021 | 1215 | 1111 | Lizzie | 7.21 | | | | | | | Grab | None | Moderate | | |
| 6401 | 21WS-1111-SO6401-N-092821 | 9/28/2021 | 1230 | 1111 | Lizzie | 5.82 | | | | | | | Grab | None | Low | | |
| 6402 | 21WS-1111-SO6402-N-092821 | 9/28/2021 | 1240 | 1111 | Lizzie | 6.86 | 1 | | | | | | 5-point | None | Moderate | | |
| 6403 | 21WS-1111-SO6403-N-092821 | 9/28/2021 | 1250 | 1111 | Lizzie | 6.19 | 1 | | | | | | 5-point | None | None | | |
| 6404 | 21WS-0162-SO6404-N-092821 | 9/28/2021 | 1400 | 0162 | Marget Ann | 8.60 | | 1 | | | | | 10-point | None | None | | 21WS-0162-SO6404-N-092821 |
| 6405 | 21WS-0162-SO6405-N-092821 | 9/28/2021 | 1405 | 0162 | Marget Ann | 8.66 | 1 | | | | | | 6-point | None | None | | |
| 6406 | 21WS-0162-SO6406-N-092821 | 9/28/2021 | 1410 | 0162 | Marget Ann | 8.44 | 1 | | | | | | 5-point | None | None | | |

Table 2: Surface Soils Sampling Collection Summary

| SAMPLE # (SO) | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Field Soil pH (s.u.) | XRF | Metals | SPLP | ABA | MIS | IVBA | Sample Type | Mn staining | Fe staining | NOTES | LAB SAMPLE FIELD ID |
|------------------|---------------------------|-----------|------|-------------|-------------------|-------------------------|------------|------------|-----------|-----------|-----------|----------|-------------|-------------|----------------|-----------------|---------------------|
| 6407 | 21WS-0162-SO6407-N-092821 | 9/28/2021 | 1415 | 0162 | Marget Ann | 7.36 | 1 | | | | | | Grab | None | None | | |
| 6408 | 21WS-0102-SO6408-N-092821 | 9/28/2021 | 1510 | 0102 | Valley Forge | NA | | | | | | | NA | NA | NA | Natural Feature | |
| 6409 | 21WS-0102-SO6409-N-092821 | 9/28/2021 | 1515 | 0102 | Valley Forge | 7.13 | 1 | | | | | | Grab | None | High | | |
| Total | | | | | | 1010 | 402 | 109 | 18 | 12 | 22 | 8 | | | | | |

Table 3: Subsurface Soils Sample Collection Summary

| SAMPLE # | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Bore Hole # | SOIL pH | XRF | Metals | SPLP | ABA | Sample Type | Depth Interval (ft bgs) | NOTES | Staining | LAB SAMPLE FIELD ID |
|----------|-------------------------------------|-----------|--------------|-------------|--------------------|-------------|---------|-----|--------|------|-----|-------------|-------------------------|--------------------------------------|----------|--|
| 5885 | 20WS-0040-SO5885-5.6-6.2-N-061820 | 6/18/2020 | 1030 | 0040 | Elba | DPT-01 | 4.27 | 1 | 1 | | | Core | 5.6-6.2 | | NR | 20WS-0040-SO5885-5.6-6.2-N-061820 |
| 5886 | 20WS-0040-SO5886-5.6-10.0-N-061820 | 6/18/2020 | 1115 | 0040 | Elba | DPT-02 | 4.51 | 1 | 1 | | | Core | 5.6-10.0 | | NR | 20WS-0040-SO5886-5.6-10.0-N-061820 |
| 5887 | 20WS-0040-SO5887-6.0-6.5-N-061820 | 6/18/2020 | 1155 | 0040 | Elba | DPT-03 | 5.91 | 1 | 1 | | | Core | 6.0-6.5 | | NR | 20WS-0040-SO5887-6.0-6.5-N-061820 |
| 5888 | 20WS-0040-SO5888-5.6-6.0-N-061820 | 6/18/2020 | 1335 | 0040 | Elba | DPT-04 | 4.88 | 1 | 1 | | | Core | 5.6-6.0 | | NR | 20WS-0040-SO5888-5.6-6.0-N-061820 |
| 5889 | 20WS-0043-SO5889-5.8-6.2-N-061820 | 6/18/2020 | 1425 | 0043 | Germania | DPT-05 | 4.93 | 1 | 1 | | | Core | 5.8-6.2 | | NR | 20WS-0043-SO5889-5.8-6.2-N-061820 |
| 5890 | 20WS-0043-SO5890-6.2-6.4-N-061820 | 6/18/2020 | 1430 | 0043 | Germania | DPT-05 | 4.22 | 1 | 1 | | | Core | 6.2-6.4 | | NR | 20WS-0043-SO5890-6.2-6.4-N-061820 |
| 5891 | 20WS-0043-SO5891-10.3-10.9-N-061820 | 6/18/2020 | 1505 | 0043 | Germania | DPT-06 | 4.51 | 1 | 1 | | | Core | 10.3-10.9 | | NR | 20WS-0043-SO5891-10.3-10.9-N-061820 |
| 5892 | 20WS-0006-SO5892-5.7-6.0-N-061820 | 6/18/2020 | 1630 | 0006 | Mountain Boy | DPT-07 | 4.17 | 1 | 1 | | | Core | 5.7-6.0 | | NR | 20WS-0006-SO5892-5.7-6.0-N-061820 |
| 5893 | 20WS-0006-SO5893-10.4-10.7-N-061920 | 6/19/2020 | 1030 | 0006 | Mountain Boy | DPT-08 | 4.74 | 1 | 1 | | | Core | 10.4-10.7 | | NR | 20WS-0006-SO5893-10.4-10.7-N-061920 |
| 5894 | 20WS-0006-SO5894-11.1-11.4-N-061920 | 6/19/2020 | 1045 | 0006 | Mountain Boy | DPT-09 | 7.45 | 1 | 1 | | | Core | 11.1-11.7 | | NR | 20WS-0006-SO5894-11.1-11.4-N-061920 |
| 5895 | 20WS-0006-SO5895-5.4-5.7-N-061920 | 6/18/2020 | 1140 | 0006 | Mountain Boy | DPT-10 | 4.35 | 1 | 1 | | | Core | 5.4-5.7 | | NR | 20WS-0006-SO5895-5.4-5.7-N-061920 |
| 5896 | 20WS-0043-SO5896-5.9-6.5-N-061920 | 6/19/2020 | 1315 1325 | 0043 | Germania | DPT-11 | 6.40 | 2 | 2 | | | Core | 5.9-6.5 | Metals Duplicate | NR | 20WS-0043-SO5896-5.9-6.5-N-061920 20WS-0043-SO5896-5.9-6.5-D-061920 |
| 5897 | 20WS-0043-SO5897-7.3-7.7-N-061920 | 6/19/2020 | 1345 | 0043 | Germania | DPT-12 | 4.09 | 1 | 1 | | | Core | 7.3-7.7 | | NR | 20WS-0043-SO5897-7.3-7.7-N-061920 |
| 5898 | 20WS-0043-SO5898-10.8-11.2-N-061920 | 6/19/2020 | 1445 | 0043 | Germania | DPT-13 | 4.28 | 1 | 1 | | | Core | 10.8-11.2 | | NR | 20WS-0043-SO5898-10.8-11.2-N-061920 |
| 5899 | 20WS-0043-SO5899-16.0-16.3-N-061920 | 6/19/2020 | 1615 | 0043 | Germania | DPT-14 | 6.12 | 1 | 1 | | | Core | 16.0-16.3 | | NR | 20WS-0043-SO5899-16.0-16.3-N-061920 |
| 5900 | 20WS-0003-SO5900-1.0-1.5-N-062320 | 6/23/2020 | 0940 | 0003 | Humboldt | DPT-15 | 8.71 | 1 | 1 | | | Core | 1.0-1.5 | | NR | 20WS-0003-SO5900-1.0-1.5-N-062320 |
| 5901 | 20WS-0003-SO5901-4.4-4.7-N-062320 | 6/23/2020 | 1015 | 0003 | Humboldt | DPT-16 | 6.91 | 1 | 1 | | | Core | 4.4-4.7 | | NR | 20WS-0003-SO5901-4.4-4.7-N-062320 |
| 5902 | 20WS-0003-SO5902-8.6-9.0-N-062320 | 6/23/2020 | 1105 | 0003 | Humboldt | DPT-17 | 6.23 | 1 | 1 | | | Core | 8.6-9.0 | | NR | 20WS-0003-SO5902-8.6-9.0-N-062320 |
| 5903 | 20WS-0003-SO5903-4.6-4.9-N-062320 | 6/23/2020 | 1125 | 0003 | Humboldt | DPT-18 | 4.50 | 1 | 1 | | | Core | 4.6-4.9 | | NR | 20WS-0003-SO5903-4.6-4.9-N-062320 |
| 5904 | 20WS-0003-SO5904-12.6-13.0-N-062320 | 6/23/2020 | 1305 | 0003 | Humboldt | DPT-19 | 6.05 | 1 | 1 | | | Core | 12.6-13.0 | | NR | 20WS-0003-SO5904-12.6-13.0-N-062320 |
| 5905 | 20WS-0010-SO5905-8.4-8.8-N-062320 | 6/23/2020 | 1420 | 0010 | Minnie Jane | DPT-20 | 4.20 | 1 | 1 | | | Core | 8.4-8.8 | | NR | 20WS-0010-SO5905-8.4-8.8-N-062320 |
| 5906 | 20WS-0010-SO5906-13.0-13.5-N-062320 | 6/23/2020 | 1445 | 0010 | Minnie Jane | DPT-21 | 4.98 | 1 | 1 | | | Core | 13.0-13.5 | | NR | 20WS-0010-SO5906-13.0-13.5-N-062320 |
| 5907 | 20WS-0010-SO5907-12.2-12.6-N-062320 | 6/23/2020 | 1530 | 0010 | Minnie Jane | DPT-22 | 4.43 | 1 | 1 | | | Core | 12.2-12.6 | | NR | 20WS-0010-SO5907-12.2-12.6-N-062320 |
| 5908 | 20WS-0010-SO5908-12.4-12.8-N-062320 | 6/23/2020 | 1615 | 0010 | Minnie Jane | DPT-23 | 4.35 | 1 | 1 | | | Core | 12.4-12.8 | | NR | 20WS-0010-SO5908-12.4-12.8-N-062320 |
| 5909 | 20WS-0010-SO5909-8.2-8.5-N-062420 | 6/24/2020 | 0840 | 0010 | Minnie Jane | DPT-24 | 6.37 | 1 | 1 | | | Core | 8.2-8.5 | | NR | 20WS-0010-SO5909-8.2-8.5-N-062420 |
| 5910 | 20WS-0010-SO5910-9.2-9.6-N-062420 | 6/24/2020 | 0930 | 0010 | Minnie Jane | DPT-25 | 3.94 | 1 | 1 | | | Core | 9.2-9.6 | | NR | 20WS-0010-SO5910-9.2-9.6-N-062420 |
| 5911 | 20WS-0297-SO5911-12.7-13.0-N-062420 | 6/24/2020 | 1105 | 0297 | Key West | DPT-26 | 3.95 | 1 | 1 | | | Core | 12.7-13.0 | | NR | 20WS-0297-SO5911-12.7-13.0-N-062420 |
| | | 6/24/2020 | 1125 | 0297 | Key West | DPT-27 | NA | | | | | Core | | no sample; hit refusal before native | | |
| 5912 | 20WS-0297-SO5912-4.5-4.8-N-062420 | 6/24/2020 | 1350 | 0297 | Key West | DPT-28 | 3.16 | 1 | 1 | | | Core | 4.5-4.8 | | NR | 20WS-0297-SO5912-4.5-4.8-N-062420 |
| 5913 | 20WS-0297-SO5913-0.2-0.8-N-062420 | 6/24/2020 | 1410 | 0297 | Key West | DPT-29 | 3.67 | 1 | 1 | | | Core | 0.2-0.8 | | NR | 20WS-0297-SO5913-0.2-0.8-N-062420 |
| 5914 | 20WS-0297-SO5914-0.4-0.8-N-062420 | 6/24/2020 | 1430 | 0297 | Key West | DPT-30 | 4.31 | 1 | 1 | | | Core | 0.4-0.8 | | NR | 20WS-0297-SO5914-0.4-0.8-N-062420 |
| 5915 | 20WS-0288-SO5915-4.6-5.0-N-062420 | 6/24/2020 | 1510 | 0288 | Nettie | DPT-31 | 4.27 | 1 | 1 | | | Core | 4.6-5.0 | | NR | 20WS-0288-SO5915-4.6-5.0-N-062420 |
| 5916 | 20WS-0285-SO5916-4.4-4.5-N-062520 | 6/25/2020 | 0840 | 0285 | Burlington | DPT-32 | NR | 1 | 1 | | | Core | 4.4-4.5 | | NR | 20WS-0285-SO5916-4.4-4.5-N-062520 |
| 5917 | 20WS-0285-SO5917-8.4-8.7-N-062520 | 6/25/2020 | 0905 | 0285 | Burlington | DPT-33 | 5.07 | 1 | 1 | | | Core | 8.4-8.7 | | NR | 20WS-0285-SO5917-8.4-8.7-N-062520 |
| 5918 | 20WS-0285-SO5918-0.3-0.9-N-062520 | 6/25/2020 | 925 0930 | 0285 | Burlington | DPT-34 | 5.69 | 2 | 2 | | | Core | 0.3-0.9 | Metals Duplicate | NR | 20WS-0285-SO5918-0.3-0.9-N-062520 20WS-0285-SO5918-0.3-0.9-D-062520 |
| 5919 | 20WS-0285-SO5919-1.2-1.5-N-062520 | 6/25/2020 | 0940 | 0285 | Burlington | DPT-35 | 5.44 | 1 | 1 | | | Core | 1.2-1.5 | | NR | 20WS-0285-SO5919-1.2-1.5-N-062520 |
| 5920 | 20WS-0285-SO5920-1.3-1.5-N-062520 | 6/25/2020 | 1035 | 0285 | Burlington | DPT-36 | 4.65 | 1 | 1 | | | Core | 1.3-1.5 | | NR | 20WS-0285-SO5920-1.3-1.5-N-062520 |
| 5921 | 20WS-0246-SO5921-12.2-12.6-N-062520 | 6/25/2020 | 1205 | 0246 | Independent | DPT-37 | 3.95 | 1 | 1 | | | Core | 12.2-12.6 | | NR | 20WS-0246-SO5921-12.2-12.6-N-062520 |
| 5922 | 20WS-0246-SO5922-8.8-9.2-N-062520 | 6/25/2020 | 1305 | 0246 | Independent | DPT-38 | 4.19 | 1 | 1 | | | Core | 8.8-9.2 | | NR | 20WS-0246-SO5922-8.8-9.2-N-062520 |
| 5923 | 20WS-0246-SO5923-4.8-5.1-N-062520 | 6/25/2020 | 1340 | 0246 | Independent | DPT-39 | 4.06 | 1 | 1 | | | Core | 4.8-5.1 | | NR | 20WS-0246-SO5923-4.8-5.1-N-062520 |
| 5924 | 20WS-0246-SO5924-8.7-9.0-N-062520 | 6/25/2020 | 1415 | 0246 | Independent | DPT-40 | 4.26 | 1 | 1 | | | Core | 8.7-9.0 | | NR | 20WS-0246-SO5924-8.7-9.0-N-062520 |
| 5925 | 20WS-0285-SO5925-1.0-1.4-N-062520 | 6/25/2020 | 1430 | 0285 | Burlington | DPT-41 | 4.11 | 1 | 1 | | | Core | 1.0-1.4 | | NR | 20WS-0246-SO5925-1.0-1.4-N-062520 |
| 5926 | 20WS-1150-SO5926-20.5-20.8-N-062520 | 6/25/2020 | 1635 | 1150 | General Washington | DPT-42 | NR | 1 | 1 | | | Core | 20.5-20.8 | | NR | 20WS-1150-SO5926-20.5-20.8-N-062520 |
| 5927 | 20WS-0015-SO5927-5.5-6.2-N-062620 | 6/26/2020 | 0920 | 0015 | Milwaukee | DPT-43 | 6.64 | 1 | 1 | | | Core | 5.5-6.2 | | NR | 20WS-0015-SO5927-5.5-6.2-N-062620 |
| 5928 | 20WS-0015-SO5928-12.5-12.7-N-062620 | 6/26/2020 | 1010 | 0015 | Milwaukee | DPT-44 | 7.44 | 1 | 1 | | | Core | 12.5-12.7 | | NR | 20WS-0015-SO5928-12.5-12.7-N-062620 |
| 5929 | 20WS-0015-SO5929-12.7-13.0-N-062620 | 6/26/2020 | 1015 | 0015 | Milwaukee | DPT-44 | 7.55 | 1 | 1 | | | Core | 12.7-13.0 | | NR | 20WS-0015-SO5929-12.7-13.0-N-062620 |
| 5930 | 20WS-0015-SO5930-8.7-9.0-N-062620 | 6/26/2020 | 1040 | 0015 | Milwaukee | DPT-45 | 5.12 | 1 | 1 | | | Core | 8.7-9.0 | | NR | 20WS-0015-SO5930-8.7-9.0-N-062620 |
| 5931 | 20WS-0015-SO5931-9.2-9.5-N-062620 | 6/26/2020 | 1110 | 0015 | Milwaukee | DPT-46 | 5.62 | 1 | 1 | | | Core | 9.2-9.5 | | NR | 20WS-0015-SO5931-9.2-9.5-N-062620 |
| 5932 | 20WS-0016-SO5932-4.8-5.2-N-070120 | 7/1/2020 | 0910 | 0016 | Orphan Boy | DPT-47 | 4.48 | 1 | 1 | | | Core | 4.8-5.2 | | NR | 20WS-0016-SO5932-4.8-5.2-N-070120 |
| 5933 | 20WS-0016-SO5933-12.7-13.0-N-070120 | 7/1/2020 | 1000 | 0016 | Orphan Boy | DPT-48 | 3.08 | 1 | 1 | | | Core | 12.7-13.0 | | NR | 20WS-0016-SO5933-12.7-13.0-N-070120 |
| 5934 | 20WS-0016-SO5934-12.7-13.2-N-070120 | 7/1/2020 | 1050 | 0016 | Orphan Boy | DPT-49 | 4.44 | 1 | 1 | | | Core | 12.7-13.2 | | NR | 20WS-0016-SO5934-12.7-13.2-N-070120 |
| 5935 | 20WS-0016-SO5935-4.0-5.0-N-070120 | 7/1/2020 | 1125 1130 | 0016 | Orphan Boy | DPT-50 | 4.15 | 2 | 2 | | | Core | 4.0-5.0 | Metals Duplicate | NR | 20WS-0016-SO5935-4.0-5.0-N-070120 20WS-0016-SO5935-4.0-5.0-D-070120 |
| 5936 | 20WS-0013-SO5936-12.3-12.6-N-070120 | 7/1/2020 | 1205 | 0013 | Georgie | DPT-51 | 4.53 | 1 | 1 | | | Core | 12.3-12.6 | | NR | 20WS-0013-SO5936-12.3-12.6-N-070120 |
| 5937 | 20WS-1150-SO5937-12.3-12.7-N-070120 | 7/1/2020 | 1400 | 1150 | General Washington | DPT-52 | 4.23 | 1 | 1 | | | Core | 12.3-12.7 | | NR | 20WS-1150-SO5937-12.3-12.7-N-070120 |
| 5938 | 20WS-1150-SO5938-24.4-24.9-N-070120 | 7/1/2020 | 1450 | 1150 | General Washington | DPT-53 | 5.04 | 1 | 1 | | | Core | 24.4-24.9 | | NR | 20WS-1150-SO5938-24.4-24.9-N-070120 |

Table 3: Subsurface Soils Sample Collection Summary

| SAMPLE # | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Bore Hole # | SOIL pH | XRF | Metals | SPLP | ABA | Sample Type | Depth Interval (ft bgs) | NOTES | Staining | LAB SAMPLE FIELD ID |
|----------|-------------------------------------|-----------|--------------|-------------|-------------------|-------------|---------|-----|--------|------|-----|-------------|-------------------------|--|---------------------------|--|
| 5939 | 20WS-0288-SO5939-4.0-4.4-N-070220 | 7/2/2020 | 0845 | 0288 | Nettie | DPT-54 | 3.96 | 1 | 1 | | | Core | 4.0-4.4 | | NR | 20WS-0288-SO5939-4.0-4.4-N-070220 |
| 5940 | 20WS-0288-SO5940-4.4-4.9-N-070220 | 7/2/2020 | 0850 | 0288 | Nettie | DPT-54 | 4.36 | 1 | 1 | | | Core | 4.4-4.9 | | NR | 20WS-0288-SO5940-4.4-4.9-N-070220 |
| | | 7/2/2020 | 0945 | 0288 | Nettie | DPT-55 | NA | | | | | | | No sample collected. Hit refusal at 6.0 ft. | | |
| 5941 | 20WS-0288-SO5941-4.0-4.5-N-070220 | 7/2/2020 | 1005 | 0288 | Nettie | DPT-56 | 5.30 | 1 | 1 | | | Core | 4.0-4.5 | | NR | 20WS-0288-SO5941-4.0-4.5-N-070220 |
| 5942 | 20WS-0288-SO5942-0.9-1.3-N-070220 | 7/2/2020 | 1025 1030 | 0288 | Nettie | DPT-57 | 5.48 | 1 | 2 | | | Core | 0.9-1.3 | Metals Duplicate | NR | 20WS-0288-SO5942-0.9-1.3-N-070220 20WS-0288-SO5942-0.9-1.3-D-070220 |
| | | 7/2/2020 | 1145 | 0288 | Nettie | DPT-58 | NA | | | | | | | No sample collected. Did not encounter native and pore core recovery. | | |
| 5944 | 20WS-0289-SO5944-12.3-12.6-N-070220 | 7/2/2020 | 1310 | 0289 | Hibernia | DPT-59 | 4.62 | 1 | 1 | | | Core | 12.3-12.6 | | NR | 20WS-0289-SO5944-12.3-12.6-N-070220 |
| 5945 | 20WS-0289-SO5945-12.8-13.3-N-070220 | 7/2/2020 | 1340 | 0289 | Hibernia | DPT-60 | 5.15 | 1 | 1 | | | Core | 12.8-13.3 | | NR | 20WS-0289-SO5945-12.8-13.3-N-070220 |
| 5943 | 20WS-0162-SO5943-12.3-12.7-N-070620 | 7/6/2020 | 1055 | 0162 | Marget Ann | DPT-61 | 6.42 | 1 | 1 | | | Core | 12.3-12.7 | | NR | 20WS-0162-SO5943-12.3-12.7-N-070620 |
| 5946 | 20WS-0162-SO5946-16.0-16.4-N-070620 | 7/6/2020 | 1130 | 0162 | Marget Ann | DPT-62 | 7.04 | 1 | 1 | | | Core | 16.0-16.4 | | NR | 20WS-0162-SO5946-16.0-16.4-N-070620 |
| 5947 | 20WS-0162-SO5947-20.0-20.4-N-070620 | 7/6/2020 | 1230 | 0162 | Marget Ann | DPT-63 | 8.31 | 1 | 1 | | | Core | 20.0-20.4 | | NR | 20WS-0162-SO5947-20.0-20.4-N-070620 |
| 5948 | 20WS-0138-SO5948-12.8-13.3-N-070620 | 7/6/2020 | 1405 | 0138 | Glengarry | DPT-64 | 5.02 | 1 | 1 | | | Core | 12.8-13.3 | | NR | 20WS-0138-SO5948-12.8-13.3-N-070620 |
| 5949 | 20WS-0138-SO5949-13.1-13.6-N-070620 | 7/6/2020 | 1500 | 0138 | Glengarry | DPT-65 | 5.51 | 1 | 1 | | | Core | 13.1-13.6 | | NR | 20WS-0138-SO5949-13.1-13.6-N-070620 |
| 5950 | 20WS-0138-SO5950-9.5-9.8-N-070620 | 7/6/2020 | 1530 | 0138 | Glengarry | DPT-66 | 3.96 | 1 | 1 | | | Core | 9.5-9.8 | | NR | 20WS-0138-SO5950-9.5-9.8-N-070620 |
| 5951 | 20WS-0179-SO5951-4.2-4.5-N-070820 | 7/8/2020 | 0815 | 0179 | Eagle | DPT-67 | 4.02 | 1 | 1 | | | Core | 4.2-4.5 | | NR | 20WS-0179-SO5951-4.2-4.5-N-070820 |
| 5952 | 20WS-0179-SO5952-0.2-0.7-N-070820 | 7/8/2020 | 0835 | 0179 | Eagle | DPT-68 | 3.73 | | 1 | | | Core | 0.2-0.7 | | NR | 20WS-0179-SO5952-0.2-0.7-N-070820 |
| 5953 | 20WS-0179-SO5953-5.4-5.7-N-070820 | 7/8/2020 | 0900 | 0179 | Eagle | DPT-69 | 3.72 | 1 | 1 | | | Core | 5.4-5.7 | | NR | 20WS-0179-SO5953-5.4-5.7-N-070820 |
| 5954 | 20WS-0179-SO5954-4.3-4.9-N-070820 | 7/8/2020 | 1015 1030 | 0179 | Eagle | DPT-70 | 3.49 | 2 | 2 | | | Core | 4.3-4.9 | Metals Duplicate | NR | 20WS-0179-SO5954-4.3-4.9-N-070820 20WS-0179-SO5954-4.3-4.9-D-070820 |
| 5955 | 20WS-0179-SO5955-0.7-1.2-N-070820 | 7/8/2020 | 1020 | 0179 | Eagle | DPT-71 | 3.58 | 1 | 1 | | | Core | 0.7-1.2 | | NR | 20WS-0179-SO5955-0.7-1.2-N-070820 |
| 5956 | 20WS-0017-SO5956-8.1-8.6-N-070820 | 7/8/2020 | 1255 | 0017 | Kit Carson | DPT-72 | 8.19 | 1 | 1 | | | Core | 8.1-8.6 | | NR | 20WS-0017-SO5956-8.1-8.6-N-070820 |
| 5957 | 20WS-0019-SO5957-5.3-5.7-N-070820 | 7/8/2020 | 1310 | 0019 | Chammer | DPT-73 | 6.37 | 1 | 1 | | | Core | 5.3-5.7 | | NR | 20WS-0019-SO5957-5.3-5.7-N-070820 |
| 5958 | 20WS-0017-SO5958-12.4-12.8-N-070820 | 7/8/2020 | 1350 | 0017 | Kit Carson | DPT-74 | 6.41 | 1 | 1 | | | Core | 12.4-12.8 | | NR | 20WS-0017-SO5958-12.4-12.8-N-070820 |
| 5959 | 20WS-0315-SO5959-8.8-9-N-070920 | 7/9/2020 | 0900 | 0315 | Garibaldi | DPT-75 | 5.64 | 1 | 1 | | | Core | 8.8-9.0 | | NR | 20WS-0315-SO5959-8.8-9-N-070920 |
| 5960 | 20WS-0315-SO5960-4.3-4.7-N-070920 | 7/9/2020 | 0940 | 0315 | Garibaldi | DPT-76 | 9.68 | 1 | 1 | | | Core | 4.3-4.7 | | NR | 20WS-0315-SO5960-4.3-4.7-N-070920 |
| 5961 | 20WS-0315-SO5961-4.3-4.6-N-070920 | 7/9/2020 | 1100 | 0315 | Garibaldi | DPT-77 | 4.92 | 1 | 1 | | | Core | 4.3-4.6 | | NR | 20WS-0315-SO5961-4.3-4.6-N-070920 |
| 5962 | 20WS-0315-SO5962-5.3-5.6-N-070920 | 7/9/2020 | 1130 | 0315 | Garibaldi | DPT-78 | 3.71 | 1 | 1 | | | Core | 5.3-5.6 | | NR | 20WS-0315-SO5962-5.3-5.6-N-070920 |
| 6284 | 20WS-0040-SO6284-0.0-5.0-N-061820 | 2/16/2021 | 0920 | 0040 | Elba | DPT-01 | 4.36 | | | | | Core | 0.0-5.0 | Sampled from Archived Core. Orig Sample # 5964 used by mistake. Changed to 6284 after collection event | NR | |
| 5965 | 20WS-0040-SO5965-6.0-10.0-N-061820 | 2/16/2021 | 0936 | 0040 | Elba | DPT-01 | 5.26 | | | | | Core | 6.0-10.0 | Sampled from Archived Core | No Staining | |
| 5966 | 20WS-0040-SO5966-5.0-5.6-N-061820 | 2/16/2021 | 1021 | 0040 | Elba | DPT-01B | 4.83 | | | | | Core | 5.0-5.6 | Sampled from Archived Core | NR | |
| 5967 | 20WS-0040-SO5967-6.2-10.0-N-061820 | 2/16/2021 | 1028 | 0040 | Elba | DPT-01B | 4.87 | | | | | Core | 6.2-10.0 | Sampled from Archived Core | NR | |
| 5968 | 20WS-0040-SO5968-0.0-5.0-N-061820 | 2/16/2021 | 1037 | 0040 | Elba | DPT-02 | 4.27 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 5969 | 20WS-0040-SO5969-5.0-5.6-N-061820 | 2/16/2021 | 1046 | 0040 | Elba | DPT-02 | 5.25 | | | | | Core | 5.0-5.6 | Sampled from Archived Core | NR | |
| 5970 | 20WS-0040-SO5970-10.4-11.4-N-061820 | 2/16/2021 | 1107 | 0040 | Elba | DPT-02 | 5.4 | | | | | Core | 10.4-11.4 | Sampled from Archived Core | NR | |
| 5971 | 20WS-0040-SO5971-11.4-12.3-N-061820 | 2/16/2021 | 1131 | 0040 | Elba | DPT-02 | 5.04 | | | | | Core | 11.4-12.3 | Sampled from Archived Core | NR | |
| 5972 | 20WS-0040-SO5972-0.5-5.0-N-061820 | 2/16/2021 | 1138 | 0040 | Elba | DPT-03 | 5.09 | | | | | Core | 0.5-5.0 | Sampled from Archived Core | NR | |
| 5973 | 20WS-0040-SO5973-5.0-5.9-N-061820 | 2/16/2021 | 1145 | 0040 | Elba | DPT-03 | 5.34 | | | | | Core | 5.0-5.9 | Sampled from Archived Core | NR | |
| 5974 | 20WS-0040-SO5974-6.2-6.9-N-061820 | 2/16/2021 | 1158 | 0040 | Elba | DPT-03 | 7.09 | | | | | Core | 6.2-6.9 | Sampled from Archived Core | NR | |
| 5975 | 20WS-0040-SO5975-10.0-12.2-N-061820 | 2/16/2021 | 1359 | 0040 | Elba | DPT-03 | 8.55 | | | | | Core | 10.0-12.2 | Sampled from Archived Core | NR | |
| 5976 | 20WS-0040-SO5976-12.2-15.0-N-061820 | 2/16/2021 | 1406 | 0040 | Elba | DPT-03 | 8.47 | | | | | Core | 12.2-15.0 | Sampled from Archived Core | NR | |
| 5977 | 20WS-0040-SO5977-0.0-5.0-N-061820 | 2/16/2021 | 1412 | 0040 | Elba | DPT-04 | 4.81 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 5978 | 20WS-0040-SO5978-5.0-5.6-N-061820 | 2/16/2021 | 1419 | 0040 | Elba | DPT-04 | 5.81 | | | | | Core | 5.0-5.6 | Sampled from Archived Core | NR | |
| 5979 | 20WS-0040-SO5979-6.0-6.7-N-061820 | 2/16/2021 | 1428 | 0040 | Elba | DPT-04 | 6.51 | | | | | Core | 6.0-6.7 | Sampled from Archived Core | NR | |
| 5980 | 20WS-0040-SO5980-6.7-7.9-N-061820 | 2/16/2021 | 1438 | 0040 | Elba | DPT-04 | 8.59 | | | | | Core | 6.7-7.9 | Sampled from Archived Core | NR | |
| 5981 | 20WS-0040-SO5981-7.9-8.2-N-061820 | 2/16/2021 | 1447 | 0040 | Elba | DPT-04 | 8.73 | | | | | Core | 7.9-8.2 | Sampled from Archived Core | NR | |
| 5982 | 20WS-0043-SO5982-0.0-5.0-N-061820 | 2/16/2021 | 1458 | 0043 | Germania | DPT-05 | 4.39 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 5983 | 20WS-0043-SO5983-5.0-5.8-N-061820 | 2/16/2021 | 1506 | 0043 | Germania | DPT-05 | 4.45 | | | | | Core | 5.0-5.8 | Sampled from Archived Core | NR | |
| 5984 | 20WS-0043-SO5984-6.4-10.0-N-061820 | 2/16/2021 | 1513 | 0043 | Germania | DPT-05 | 4.46 | | | | | Core | 6.4-10.0 | Sampled from Archived Core | NR | |
| 5985 | 20WS-0043-SO5985-10.0-13.7-N-061820 | 2/16/2021 | 1519 | 0043 | Germania | DPT-05 | 4.95 | | | | | Core | 10.0-13.7 | Sampled from Archived Core | NR | |
| 5986 | 20WS-0043-SO5986-0.0-5.0-N-061820 | 2/16/2021 | 1529 | 0043 | Germania | DPT-06 | 6.71 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 5987 | 20WS-0043-SO5987-5.0-10.3-N-061820 | 2/16/2021 | 1543 | 0043 | Germania | DPT-06 | 5.94 | | 2 | 2 | | Core | 5.0-10.3 | Sampled from Archived Core. Sample collection date and time is 6/18/20 at 14:55. Lab Dup at 15:00. | Some black stained gravel | 20WS-0043-SO5987-5.0-10.3-N-061820 20WS-0043-SO5987-5.0-10.3-D-061820 |
| 5988 | 20WS-0043-SO5988-11.4-13.5-N-021621 | 2/16/2021 | 1616 | 0043 | Germania | DPT-06 | 6.83 | | | | | Core | 11.4-13.5 | Sampled from Archived Core | NR | |
| 5989 | 20WS-0006-SO5989-0.0-5.0-N-021621 | 2/16/2021 | 1631 | 0006 | Mountain Boy | DPT-07 | 7.13 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 5990 | 20WS-0006-SO5990-5.0-5.7-N-061820 | 2/16/2021 | 1639 | 0006 | Mountain Boy | DPT-07 | 4.37 | | 1 | 1 | 1 | Core | 5.0-5.7 | Sampled from Archived Core. Sample collection date and time is 6/18/20 at 16:27. | NR | 20WS-0006-SO5990-5.0-5.7-N-061820 |
| 5991 | 20WS-0006-SO5991-6.0-9.0-N-021621 | 2/16/2021 | 1703 | 0006 | Mountain Boy | DPT-07 | 4.59 | | | | | Core | 6.0-9.0 | Sampled from Archived Core | NR | |
| 5992 | 20WS-0006-SO5992-10.0-12.0-N-021621 | 2/16/2021 | 1711 | 0006 | Mountain Boy | DPT-07 | 7.45 | | | | | Core | 10.0-12.0 | Sampled from Archived Core | Black Staining | |
| 5993 | 20WS-0006-SO5993-13.0-15.0-N-021621 | 2/16/2021 | 1716 | 0006 | Mountain Boy | DPT-07 | 6.82 | | | | | Core | 13.0-15.0 | Sampled from Archived Core | NR | |
| 5994 | 20WS-0006-SO5994-0.0-5.0-N-021721 | 2/17/2021 | 0907 | 0006 | Mountain Boy | DPT-08 | 3.94 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 5995 | 20WS-0006-SO5995-5.0-5.5-N-021721 | 2/17/2021 | 0916 | 0006 | Mountain Boy | DPT-08 | 6.18 | | | | | Core | 5.0-5.5 | Sampled from Archived Core | NR | |

Table 3: Subsurface Soils Sample Collection Summary

| SAMPLE # | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Bore Hole # | SOIL pH | XRF | Metals | SPLP | ABA | Sample Type | Depth Interval (ft bgs) | NOTES | Staining | LAB SAMPLE FIELD ID |
|----------|-------------------------------------|-----------|------|-------------|-------------------|-------------|---------|-----|--------|------|-----|-------------|-------------------------|--|---------------------|-------------------------------------|
| 5996 | 20WS-0006-SO5996-5.5-5.9-N-021721 | 2/17/2021 | 0922 | 0006 | Mountain Boy | DPT-08 | 6.57 | | | | | Core | 5.5-5.9 | Sampled from Archived Core | NR | |
| 5997 | 20WS-0006-SO5997-10.7-13.5-N-021721 | 2/17/2021 | 0931 | 0006 | Mountain Boy | DPT-08 | 4.36 | | | | | Core | 10.7-13.5 | Sampled from Archived Core | NR | |
| 5998 | 20WS-0006-SO5998-5.3-6.2-N-021721 | 2/17/2021 | 0939 | 0006 | Mountain Boy | DPT-08B | 6.19 | | | | | Core | 5.3-6.2 | Sampled from Archived Core | NR | |
| 5999 | 20WS-0006-SO5999-10.0-10.4-N-021721 | 2/17/2021 | 0950 | 0006 | Mountain Boy | DPT-08B | 4.99 | | | | | Core | 10.0-10.4 | Sampled from Archived Core | NR | |
| 6000 | 20WS-0006-SO6000-0.0-5.0-N-021721 | 2/17/2021 | 1003 | 0006 | Mountain Boy | DPT-09 | 5.69 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 6001 | 20WS-0006-SO6001-10.0-11.1-N-061920 | 2/17/2021 | 1015 | 0006 | Mountain Boy | DPT-09 | 6.88 | | 1 | 1 | | Core | 10.0-11.1 | Sampled from Archived Core. Sample collection date and time is 6/19/20 at 10:45. | NR | 20WS-0006-SO6001-10.0-11.1-N-061920 |
| 6002 | 20WS-0006-SO6002-11.4-15.0-N-021721 | 2/17/2021 | 1034 | 0006 | Mountain Boy | DPT-09 | 6.56 | | | | | Core | 11.4-15.0 | Sampled from Archived Core | NR | |
| 6003 | 20WS-0006-SO6003-0.0-5.0-N-021721 | 2/17/2021 | 1042 | 0006 | Mountain Boy | DPT-10 | 4.72 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 6004 | 20WS-0006-SO6004-5.0-5.4-N-021721 | 2/17/2021 | 1049 | 0006 | Mountain Boy | DPT-10 | 4.89 | | | | | Core | 5.0-5.4 | Sampled from Archived Core | NR | |
| 6005 | 20WS-0006-SO6005-5.7-6.2-N-021721 | 2/17/2021 | 1102 | 0006 | Mountain Boy | DPT-10 | 4.33 | | | | | Core | 5.7-6.2 | Sampled from Archived Core | NR | |
| 6006 | 20WS-0043-SO6006-0.0-5.0-N-021721 | 2/17/2021 | 1119 | 0043 | Germania | DPT-11 | 4.18 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 6007 | 20WS-0043-SO6007-5.0-5.9-N-021721 | 2/17/2021 | 1127 | 0043 | Germania | DPT-11 | 6.17 | | | | | Core | 5.0-5.9 | Sampled from Archived Core | NR | |
| 6008 | 20WS-0043-SO6008-6.5-7.8-N-021721 | 2/17/2021 | 1134 | 0043 | Germania | DPT-11 | 8.36 | | | | | Core | 6.5-7.8 | Sampled from Archived Core | NR | |
| 6009 | 20WS-0043-SO6009-0.0-5.0-N-021721 | 2/17/2021 | 1142 | 0043 | Germania | DPT-12 | 4.47 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 6010 | 20WS-0043-SO6010-5.0-6.5-N-021721 | 2/17/2021 | 1256 | 0043 | Germania | DPT-12 | 4.96 | | | | | Core | 5.0-6.5 | Sampled from Archived Core | NR | |
| 6011 | 20WS-0043-SO6011-6.5-7.3-N-061920 | 2/17/2021 | 1304 | 0043 | Germania | DPT-12 | 3.69 | | 1 | 1 | | Core | 6.5-7.3 | Sampled from Archived Core. Sample collection date and time is 6/19/20 at 13:42. | NR | 20WS-0043-SO6011-6.5-7.3-N-061920 |
| 6012 | 20WS-0043-SO6012-7.7-8.3-N-021721 | 2/17/2021 | 1334 | 0043 | Germania | DPT-12 | 4.08 | | | | | Core | 7.7-8.3 | Sampled from Archived Core | NR | |
| 6013 | 20WS-0043-SO6013-0.0-5.0-N-021721 | 2/17/2021 | 1347 | 0043 | Germania | DPT-13 | 8.26 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 6014 | 20WS-0043-SO6014-5.0-10.0-N-021721 | 2/17/2021 | 1356 | 0043 | Germania | DPT-13 | 5.54 | | | | | Core | 5.0-10.0 | Sampled from Archived Core | NR | |
| 6015 | 20WS-0043-SO6015-10.0-10.8-N-021721 | 2/17/2021 | 1407 | 0043 | Germania | DPT-13B | 5.4 | | | | | Core | 10.0-10.8 | Sampled from Archived Core | NR | |
| 6016 | 20WS-0043-SO6016-11.2-12.0-N-021721 | 2/17/2021 | 1425 | 0043 | Germania | DPT-13B | 4.19 | | | | | Core | 11.2-12.0 | Sampled from Archived Core | NR | |
| 6017 | 20WS-0043-SO6017-12.0-13.0-N-021721 | 2/17/2021 | 1432 | 0043 | Germania | DPT-13B | 8.18 | | | | | Core | 12.0-13.0 | Sampled from Archived Core | NR | |
| 6018 | 20WS-0043-SO6018-0.0-5.0-N-021721 | 2/17/2021 | 1441 | 0043 | Germania | DPT-14 | 6.59 | | | | | Core | 0.0-5.0 | Sampled from Archived Core | NR | |
| 6019 | 20WS-0043-SO6019-5.0-10.0-N-021721 | 2/17/2021 | 1450 | 0043 | Germania | DPT-14 | 7.82 | | | | | Core | 5.0-10.0 | Sampled from Archived Core | NR | |
| 6020 | 20WS-0043-SO6020-10.0-15.0-N-061920 | 2/17/2021 | 1501 | 0043 | Germania | DPT-14B | 7.7 | | 1 | | | Core | 10.0-15.0 | Sampled from Archived Core. Sample collection date and time is 6/19/20 at 15:35. | NR | 20WS-0043-SO6020-10.0-15.0-N-061920 |
| 6021 | 20WS-0043-SO6021-15.0-16.0-N-021721 | 2/17/2021 | 1520 | 0043 | Germania | DPT-14B | 7.72 | | | | | Core | 15.0-16.0 | Sampled from Archived Core | NR | |
| 6022 | 20WS-0043-SO6022-16.3-18.0-N-021721 | 2/17/2021 | 1531 | 0043 | Germania | DPT-14B | 7.41 | | | | | Core | 16.3-18.0 | Sampled from Archived Core | NR | |
| 6023 | 20WS-0003-SO6023-0.0-4.0-N-021721 | 2/17/2021 | 1544 | 0003 | Humboldt | DPT-15 | 8.63 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6024 | 20WS-0003-SO6024-4.0-4.5-N-021721 | 2/17/2021 | 1549 | 0003 | Humboldt | DPT-15 | 8.13 | | | | | Core | 4.0-4.5 | Sampled from Archived Core | NR | |
| 6025 | 20WS-0003-SO6025-4.5-6.0-N-021721 | 2/17/2021 | 1555 | 0003 | Humboldt | DPT-15 | 7.54 | | | | | Core | 4.5-6.0 | Sampled from Archived Core | NR | |
| 6026 | 20WS-0003-SO6026-6.0-7.2-N-021721 | 2/17/2021 | 1600 | 0003 | Humboldt | DPT-15 | 7.64 | | | | | Core | 6.0-7.2 | Sampled from Archived Core | NR | |
| 6027 | 20WS-0003-SO6027-0.0-4.0-N-021721 | 2/17/2021 | 1612 | 0003 | Humboldt | DPT-16 | 8.39 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6028 | 20WS-0003-SO6028-4.0-4.4-N-021721 | 2/17/2021 | 1619 | 0003 | Humboldt | DPT-16 | 6.97 | | | | | Core | 4.0-4.4 | Sampled from Archived Core | NR | |
| 6029 | 20WS-0003-SO6029-4.7-5.0-N-021721 | 2/17/2021 | 1625 | 0003 | Humboldt | DPT-16 | 8.44 | | | | | Core | 4.7-5.0 | Sampled from Archived Core | NR | |
| 6030 | 20WS-0003-SO6030-5.0-6.3-N-021721 | 2/17/2021 | 1632 | 0003 | Humboldt | DPT-16 | 8.78 | | | | | Core | 5.0-6.3 | Sampled from Archived Core | NR | |
| 6031 | 20WS-0003-SO6031-0.0-4.0-N-021721 | 2/17/2021 | 1644 | 0003 | Humboldt | DPT-17 | 8.06 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6032 | 20WS-0003-SO6032-4.0-8.0-N-021721 | 2/17/2021 | 1650 | 0003 | Humboldt | DPT-17 | 8.24 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6033 | 20WS-0003-SO6033-8.0-8.6-N-021721 | 2/17/2021 | 1657 | 0003 | Humboldt | DPT-17 | 7.03 | | | | | Core | 8.0-8.6 | Sampled from Archived Core | NR | |
| 6034 | 20WS-0003-SO6034-9.0-9.5-N-021721 | 2/17/2021 | 1703 | 0003 | Humboldt | DPT-17 | 7.98 | | | | | Core | 9.0-9.5 | Sampled from Archived Core | NR | |
| 6035 | 20WS-0003-SO6035-9.5-11.0-N-021721 | 2/17/2021 | 1710 | 0003 | Humboldt | DPT-17 | 8.24 | | | | | Core | 9.5-11.0 | Sampled from Archived Core | NR | |
| 6036 | 20WS-0003-SO6036-0.0-4.0-N-062320 | 2/18/2021 | 0852 | 0003 | Humboldt | DPT-18 | 4.3 | | | | 1 | Core | 0.0-4.0 | Sampled from Archived Core. Sample collection date and time is 6/23/20 at 11:12. | NR | 20WS-0003-SO6036-0.0-4.0-N-062320 |
| 6037 | 20WS-0003-SO6037-4.0-4.6-N-062320 | 2/18/2021 | 0907 | 0003 | Humboldt | DPT-18 | 4.93 | | 1 | 1 | | Core | 4.0-4.6 | Sampled from Archived Core. Sample collection date and time is 6/23/20 at 11:20. | Mn staining present | 20WS-0003-SO6037-4.0-4.6-N-062320 |
| 6038 | 20WS-0003-SO6038-4.9-6.0-N-021821 | 2/18/2021 | 0921 | 0003 | Humboldt | DPT-18 | 4.61 | | | | | Core | 4.9-6.0 | Sampled from Archived Core | NR | |
| 6039 | 20WS-0003-SO6039-0.0-4.0-N-021821 | 2/18/2021 | 0929 | 0003 | Humboldt | DPT-19 | 9.2 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6040 | 20WS-0003-SO6040-4.0-8.0-N-021821 | 2/18/2021 | 0938 | 0003 | Humboldt | DPT-19 | 9.17 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6041 | 20WS-0003-SO6041-8.0-12.0-N-021821 | 2/18/2021 | 0945 | 0003 | Humboldt | DPT-19 | 8.82 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6042 | 20WS-0003-SO6042-12.0-12.6-N-062320 | 2/18/2021 | 0952 | 0003 | Humboldt | DPT-19 | 9.24 | | 1 | 1 | | Core | 12.0-12.6 | Sampled from Archived Core. Sample collection date and time is 6/23/20 at 13:00. | NR | 20WS-0003-SO6042-12.0-12.6-N-062320 |
| 6043 | 20WS-0010-SO6043-0.0-4.0-N-021821 | 2/18/2021 | 1016 | 0010 | Minnie Jane | DPT-20 | 7.53 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6044 | 20WS-0010-SO6044-4.0-8.0-N-021821 | 2/18/2021 | 1025 | 0010 | Minnie Jane | DPT-20 | 5.87 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6045 | 20WS-0010-SO6045-8.0-8.4-N-021821 | 2/18/2021 | 1037 | 0010 | Minnie Jane | DPT-20 | 5.31 | | | | | Core | 8.0-8.4 | Sampled from Archived Core | NR | |
| 6046 | 20WS-0010-SO6046-8.8-9.4-N-021821 | 2/18/2021 | 1042 | 0010 | Minnie Jane | DPT-20 | 8.1 | | | | | Core | 8.8-9.4 | Sampled from Archived Core | NR | |
| 6047 | 20WS-0010-SO6047-9.4-11.0-N-021821 | 2/18/2021 | 1049 | 0010 | Minnie Jane | DPT-20 | 8.76 | | | | | Core | 9.4-11.0 | Sampled from Archived Core | NR | |
| 6048 | 20WS-0010-SO6048-0.0-4.0-N-021821 | 2/18/2021 | 1100 | 0010 | Minnie Jane | DPT-21 | 6.87 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6049 | 20WS-0010-SO6049-4.0-8.0-N-021821 | 2/18/2021 | 1106 | 0010 | Minnie Jane | DPT-21 | 7.88 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6050 | 20WS-0010-SO6050-8.0-12.0-N-021821 | 2/18/2021 | 1117 | 0010 | Minnie Jane | DPT-21 | 7.86 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6051 | 20WS-0010-SO6051-12.0-13.0-N-062320 | 2/18/2021 | 1123 | 0010 | Minnie Jane | DPT-21 | 7.34 | | 1 | 1 | | Core | 12.0-13.0 | Sampled from Archived Core. Sample collection date and time is 6/23/20 at 14:40. | NR | 20WS-0010-SO6051-12.0-13.0-N-062320 |
| 6052 | 20WS-0010-SO6052-0.0-4.0-N-021821 | 2/18/2021 | 1143 | 0010 | Minnie Jane | DPT-22 | 7.74 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6053 | 20WS-0010-SO6053-4.0-8.0-N-021821 | 2/18/2021 | 1152 | 0010 | Minnie Jane | DPT-22 | 5.21 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6054 | 20WS-0010-SO6054-8.0-12.0-N-021821 | 2/18/2021 | 1157 | 0010 | Minnie Jane | DPT-22 | 6.68 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6055 | 20WS-0010-SO6055-12.0-12.2-N-021821 | 2/18/2021 | 1203 | 0010 | Minnie Jane | DPT-22 | 5.31 | | | | | Core | 12.0-12.2 | Sampled from Archived Core | NR | |
| 6056 | 20WS-0010-SO6056-12.6-14.0-N-021821 | 2/18/2021 | 1210 | 0010 | Minnie Jane | DPT-22 | 5.93 | | | | | Core | 12.6-14.0 | Sampled from Archived Core | NR | |

Table 3: Subsurface Soils Sample Collection Summary

| SAMPLE # | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Bore Hole # | SOIL pH | XRF | Metals | SPLP | ABA | Sample Type | Depth Interval (ft bgs) | NOTES | Staining | LAB SAMPLE FIELD ID |
|----------|-------------------------------------|-----------|------|-------------|-------------------|-------------|---------|-----|--------|------|-----|-------------|-------------------------|--|----------------|---|
| 6057 | 20WS-0010-SO6057-0.0-4.0-N-021821 | 2/18/2021 | 1240 | 0010 | Minnie Jane | DPT-23 | 4.74 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6058 | 20WS-0010-SO6058-4.0-12.0-N-021821 | 2/18/2021 | 1251 | 0010 | Minnie Jane | DPT-23 | 5.97 | | | | | Core | 4.0-12.0 | Sampled from Archived Core | NR | |
| 6059 | 20WS-0010-SO6059-12.0-12.4-N-021821 | 2/18/2021 | 1258 | 0010 | Minnie Jane | DPT-23 | 6.14 | | | | | Core | 12.0-12.4 | Sampled from Archived Core | NR | |
| 6060 | 20WS-0010-SO6060-12.8-13.5-N-021821 | 2/18/2021 | 1304 | 0010 | Minnie Jane | DPT-23 | 5.16 | | | | | Core | 12.8-13.5 | Sampled from Archived Core | NR | |
| 6061 | 20WS-0010-SO6061-0.0-4.0-N-021821 | 2/18/2021 | 1310 | 0010 | Minnie Jane | DPT-24 | 6.22 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6062 | 20WS-0010-SO6062-4.0-4.6-N-021821 | 2/18/2021 | 1317 | 0010 | Minnie Jane | DPT-24 | 4.25 | | | | | Core | 4.0-4.6 | Sampled from Archived Core | NR | |
| 6063 | 20WS-0010-SO6063-4.6-5.6-N-021821 | 2/18/2021 | 1326 | 0010 | Minnie Jane | DPT-24 | 4.82 | | | | | Core | 4.6-5.6 | Sampled from Archived Core | NR | |
| 6064 | 20WS-0010-SO6064-8.0-8.2-N-021821 | 2/18/2021 | 1334 | 0010 | Minnie Jane | DPT-24 | 6.09 | | | | | Core | 8.0-8.2 | Sampled from Archived Core | NR | |
| 6065 | 20WS-0010-SO6065-8.5-9.5-N-021821 | 2/18/2021 | 1338 | 0010 | Minnie Jane | DPT-24 | 7.82 | | | | | Core | 8.5-9.5 | Sampled from Archived Core | NR | |
| 6066 | 20WS-0010-SO6066-0.0-0.5-N-021821 | 2/18/2021 | 1351 | 0010 | Minnie Jane | DPT-25 | 7.78 | | | | | Core | 0.0-0.5 | Sampled from Archived Core | NR | |
| 6067 | 20WS-0010-SO6067-1.2-1.8-N-021821 | 2/18/2021 | 1357 | 0010 | Minnie Jane | DPT-25 | 7.66 | | | | | Core | 1.2-1.8 | Sampled from Archived Core | NR | |
| 6068 | 20WS-0010-SO6068-4.0-8.0-N-021821 | 2/18/2021 | 1403 | 0010 | Minnie Jane | DPT-25 | 7.61 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6069 | 20WS-0010-SO6069-8.0-9.2-N-062420 | 2/18/2021 | 1419 | 0010 | Minnie Jane | DPT-25 | 4.22 | | 1 | 1 | 1 | Core | 8.0-9.2 | Sampled from Archived Core. Sample collection date and time is 6/24/20 at 09:25. | NR | 20WS-0010-SO6069-8.0-9.2-N-062420 |
| 6070 | 20WS-0010-SO6070-9.6-10.8-N-021821 | 2/18/2021 | 1438 | 0010 | Minnie Jane | DPT-25 | 4.62 | | | | | Core | 9.6-10.8 | Sampled from Archived Core | NR | |
| 6071 | 20WS-0297-SO6071-0.0-4.0-N-021821 | 2/18/2021 | 1446 | 0297 | Key West | DPT-26 | 5.69 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6072 | 20WS-0297-SO6072-4.0-8.0-N-021821 | 2/18/2021 | 1509 | 0297 | Key West | DPT-26 | 4.97 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6073 | 20WS-0297-SO6073-8.0-12.0-N-021821 | 2/18/2021 | 1516 | 0297 | Key West | DPT-26 | 5.03 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6074 | 20WS-0297-SO6074-12.0-12.7-N-062420 | 2/18/2021 | 1524 | 0297 | Key West | DPT-26 | 4.9 | | 1 | 1 | | Core | 12.0-12.7 | Sampled from Archived Core. Sample collection date and time is 6/24/20 at 11:05. | NR | 20WS-0297-SO6074-12.0-12.7-N-062420 |
| 6075 | 20WS-0297-SO6075-0.0-4.0-N-021821 | 2/18/2021 | 1541 | 0297 | Key West | DPT-27 | 4.71 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6076 | 20WS-0297-SO6076-4.0-5.5-N-022221 | 2/22/2021 | 0910 | 0297 | Key West | DPT-27 | 5.04 | | | | | Core | 4.0-5.5 | Sampled from Archived Core | NR | |
| 6077 | 20WS-0297-SO6077-5.5-6.7-N-022221 | 2/22/2021 | 0942 | 0297 | Key West | DPT-27 | 8.78 | | | | | Core | 5.5-6.7 | Sampled from Archived Core | NR | |
| 6078 | 20WS-0297-SO6078-8.0-11.0-N-022221 | 2/22/2021 | 0953 | 0297 | Key West | DPT-27 | 9.08 | | | | | Core | 8.0-11.0 | Sampled from Archived Core | NR | |
| 6079 | 20WS-0297-SO6079-11.0-13.7-N-022221 | 2/22/2021 | 1011 | 0297 | Key West | DPT-27B | 9.27 | | | | | Core | 11.0-13.7 | Not enough materials for sample, combined 8.0-11.0 (Sample #6078) and 11.0-13.7 due to similar material and pH. | NR | |
| 6080 | 20WS-0297-SO6080-8.0-13.7-N-062420 | 2/22/2021 | 1019 | 0297 | Key West | DPT-27 | 9.21 | | 1 | 1 | 2 | Core | 8.0-13.7 | Sampled from Archived Core. Sample collection date and time is 6/24/20 at 11:35. Lab Dup at 11:38. | NR | 20WS-0297-SO6080-8.0-13.7-N-062420 20WS-0297-SO6080-8.0-13.7-D-062420 |
| 6081 | 20WS-0297-SO6081-0.0-4.0-N-062420 | 2/22/2021 | 1045 | 0297 | Key West | DPT-28 | 3.69 | | | | 1 | Core | 0.0-4.0 | Sampled from Archived Core. Sample collection date and time is 6/24/20 at 13:40. | NR | 20WS-0297-SO6081-0.0-4.0-N-062420 |
| 6082 | 20WS-0297-SO6082-4.0-4.5-N-062420 | 2/22/2021 | 1104 | 0297 | Key West | DPT-28 | 3.35 | | 1 | 1 | | Core | 4.0-4.5 | Sampled from Archived Core. Sample collection date and time is 6/24/20 at 13:45. | NR | 20WS-0297-SO6082-4.0-4.5-N-062420 |
| 6083 | 20WS-0297-SO6083-4.8-5.4-N-022221 | 2/22/2021 | 1118 | 0297 | Key West | DPT-28 | 3.38 | | | | | Core | 4.8-5.4 | Sampled from Archived Core | NR | |
| 6084 | 20WS-0297-SO6084-5.4-6.6-N-022221 | 2/22/2021 | 1127 | 0297 | Key West | DPT-28 | 4.28 | | | | | Core | 5.4-6.6 | Sampled from Archived Core | NR | |
| 6085 | 20WS-0297-SO6085-0.0-0.2-N-022221 | 2/22/2021 | 1133 | 0297 | Key West | DPT-29 | 3.68 | | | | | Core | 0.0-0.2 | Sampled from Archived Core | NR | |
| 6086 | 20WS-0297-SO6086-0.8-2.3-N-022221 | 2/22/2021 | 1139 | 0297 | Key West | DPT-29 | 5.76 | | | | | Core | 0.8-2.3 | Sampled from Archived Core | NR | |
| 6087 | 20WS-0297-SO6087-0.0-0.4-N-022221 | 2/22/2021 | 1148 | 0297 | Key West | DPT-30 | 3.42 | | | | | Core | 0.0-0.4 | Sampled from Archived Core | NR | |
| 6088 | 20WS-0297-SO6088-0.8-1.2-N-022221 | 2/22/2021 | 1155 | 0297 | Key West | DPT-30 | 4.27 | | | | | Core | 0.8-1.2 | Sampled from Archived Core | NR | |
| 6089 | 20WS-0288-SO6089-0.0-4.0-N-022221 | 2/22/2021 | 1204 | 0288 | Nettie | DPT-31 | 3.56 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | Mn staining | |
| 6090 | 20WS-0288-SO6090-4.0-4.6-N-062420 | 2/22/2021 | 1210 | 0288 | Nettie | DPT-31 | 3.52 | | 1 | 1 | | Core | 4.0-4.6 | Sampled from Archived Core. Sample collection date and time is 6/24/20 at 15:10. | NR | 20WS-0288-SO6090-4.0-4.6-N-062420 |
| 6091 | 20WS-0288-SO6091-5.0-6.2-N-022221 | 2/22/2021 | 1219 | 0288 | Nettie | DPT-31 | 4.76 | | | | | Core | 5.0-6.2 | | NR | |
| 6092 | 20WS-0285-SO6092-0.0-4.0-N-062520 | 2/22/2021 | 1321 | 0285 | Burlington | DPT-32 | 4.03 | | 1 | 1 | | Core | 0.0-4.0 | Sampled from Archived Core. Sample collection date and time is 6/25/20 at 08:35. DPT-35 requested for sample (SO6100), correction made to DPT-32 (SO6092). Sample was taken from both locations. | NR | 20WS-0285-SO6092-0.0-4.0-N-062520 |
| 6093 | 20WS-0285-SO6093-4.0-4.4-N-022221 | 2/22/2021 | 1332 | 0285 | Burlington | DPT-32 | 6.41 | | | | | Core | 4.0-4.4 | Sampled from Archived Core | NR | |
| 6094 | 20WS-0285-SO6094-4.5-6.5-N-022221 | 2/22/2021 | 1339 | 0285 | Burlington | DPT-32 | 6.23 | | | | | Core | 4.5-6.5 | Sampled from Archived Core | NR | |
| 6095 | 20WS-0285-SO6095-0.0-4.0-N-022221 | 2/22/2021 | 1349 | 0285 | Burlington | DPT-33 | 5.6 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6096 | 20WS-0285-SO6096-4.0-8.4-N-062520 | 2/22/2021 | 1355 | 0285 | Burlington | DPT-33 | 5.13 | | 1 | 1 | 1 | Core | 4.0-8.4 | Sampled from Archived Core. Sample collection date and time is 6/25/20 at 09:05. | NR | 20WS-0285-SO6096-4.0-8.4-N-062520 |
| 6097 | 20WS-0285-SO6097-8.7-10.7-N-022221 | 2/22/2021 | 1407 | 0285 | Burlington | DPT-33 | 5.24 | | | | | Core | 8.7-10.7 | Sampled from Archived Core | NR | |
| 6098 | 20WS-0285-SO6098-0.0-0.3-N-022221 | 2/22/2021 | 1417 | 0285 | Burlington | DPT-34 | 4.92 | | | | | Core | 0.0-0.3 | Sampled from Archived Core | Black Staining | |
| 6099 | 20WS-0285-SO6099-0.9-3.0-N-022221 | 2/22/2021 | 1422 | 0285 | Burlington | DPT-34 | 5.72 | | | | | Core | 0.9-3.0 | Sampled from Archived Core | NR | |
| 6100 | 20WS-0285-SO6100-0.0-1.2-N-062520 | 2/22/2021 | 1431 | 0285 | Burlington | DPT-35 | 4.48 | | | | 1 | Core | 0.0-1.2 | Sampled from Archived Core. Sample collection date and time is 6/25/20 at 09:38. | NR | 20WS-0285-SO6100-0.0-1.2-N-062520 |
| 6101 | 20WS-0285-SO6101-1.5-1.8-N-022221 | 2/22/2021 | 1436 | 0285 | Burlington | DPT-35 | 4.76 | | | | | Core | 1.5-1.8 | Sampled from Archived Core | NR | |
| 6102 | 20WS-0285-SO6102-4.0-8.0-N-022221 | 2/22/2021 | 1442 | 0285 | Burlington | DPT-35 | 5.44 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6103 | 20WS-0285-SO6103-0.0-0.6-N-022221 | 2/22/2021 | 1602 | 0285 | Burlington | DPT-36 | 4.41 | | | | | Core | 0.0-0.6 | Sampled from Archived Core | NR | |
| 6104 | 20WS-0285-SO6104-0.6-1.9-N-022221 | 2/22/2021 | 1609 | 0285 | Burlington | DPT-36 | 4.25 | | | | | Core | 0.6-1.9 | Sampled from Archived Core | Mn present | |
| 6105 | 20WS-0285-SO6105-4.0-4.5-N-022221 | 2/22/2021 | 1613 | 0285 | Burlington | DPT-36 | 4.65 | | | | | Core | 4.0-4.5 | Sampled from Archived Core | Mn present | |
| 6106 | 20WS-0285-SO6106-0.0-1.3-N-062520 | 2/22/2021 | 1619 | 0285 | Burlington | DPT-36B | 5.5 | | 1 | 1 | | Core | 0.0-1.3 | Sampled from Archived Core. Sample collection date and time is 6/25/20 at 10:30. | NR | 20WS-0285-SO6106-0.0-1.3-N-062520 |

Table 3: Subsurface Soils Sample Collection Summary

| SAMPLE # | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Bore Hole # | SOIL pH | XRF | Metals | SPLP | ABA | Sample Type | Depth Interval (ft bgs) | NOTES | Staining | LAB SAMPLE FIELD ID |
|----------|-------------------------------------|-----------|------|-------------|--------------------|-------------|---------|-----|--------|------|-----|-------------|-------------------------|--|----------|-------------------------------------|
| 6107 | 20WS-0285-SO6107-1.5-5.0-N-022221 | 2/22/2021 | 1628 | 0285 | Burlington | DPT-36B | 4.93 | | | | | Core | 1.5-5.0 | Sampled from Archived Core | NR | |
| 6108 | 20WS-0246-SO6108-4.0-8.0-N-022221 | 2/22/2021 | 1648 | 0246 | Independent | DPT-37 | 5.14 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6109 | 20WS-0246-SO6109-8.0-12.0-N-062520 | 2/22/2021 | 1654 | 0246 | Independent | DPT-37 | 6.02 | | 1 | 1 | | Core | 8.0-12.0 | Sampled from Archived Core. Sample collection date and time is 6/25/20 at 11:50. | NR | 20WS-0246-SO6109-8.0-12.0-N-062520 |
| 6110 | 20WS-0246-SO6110-12.0-12.2-N-022221 | 2/22/2021 | 1705 | 0246 | Independent | DPT-37 | 5.32 | | | | | Core | 12.0-12.2 | Sampled from Archived Core | NR | |
| 6111 | 20WS-0246-SO6111-12.6-12.8-N-022221 | 2/22/2021 | 1708 | 0246 | Independent | DPT-37 | 4.35 | | | | | Core | 12.6-12.8 | Sampled from Archived Core | NR | |
| 6112 | 20WS-0246-SO6112-12.8-15.0-N-022221 | 2/22/2021 | 1715 | 0246 | Independent | DPT-37 | 4.09 | | | | | Core | 12.8-15.0 | Sampled from Archived Core | NR | |
| 6113 | 20WS-0246-SO6113-0.0-4.0-N-022421 | 2/24/2021 | 0847 | 0246 | Independent | DPT-38 | 6.16 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6114 | 20WS-0246-SO6114-4.0-6.6-N-022421 | 2/24/2021 | 0906 | 0246 | Independent | DPT-38 | 5.2 | | | | | Core | 4.0-6.6 | Sampled from Archived Core | NR | |
| 6115 | 20WS-0246-SO6115-8.0-8.8-N-022421 | 2/24/2021 | 0910 | 0246 | Independent | DPT-38 | 5.73 | | | | | Core | 8.0-8.8 | Sampled from Archived Core | NR | |
| 6116 | 20WS-0246-SO6116-12.0-13.2-N-022421 | 2/24/2021 | 0917 | 0246 | Independent | DPT-38 | 4.26 | | | | | Core | 12.0-13.2 | Sampled from Archived Core | NR | |
| 6117 | 20WS-0246-SO6117-0.0-4.0-N-022421 | 2/24/2021 | 0924 | 0246 | Independent | DPT-39 | 4.87 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6118 | 20WS-0246-SO6118-4.0-4.8-N-022421 | 2/24/2021 | 0929 | 0246 | Independent | DPT-39 | 5.33 | | | | | Core | 4.0-4.8 | Sampled from Archived Core | NR | |
| 6119 | 20WS-0246-SO6119-0.0-4.8-N-062520 | 2/24/2021 | 0936 | 0246 | Independent | DPT-39 | 4.96 | | 1 | 1 | 1 | Core | 0.0-4.8 | Sampled from Archived Core. Sample collection date and time is 6/25/20 at 13:35. | NR | 20WS-0246-SO6119-0.0-4.8-N-062520 |
| 6120 | 20WS-0246-SO6120-8.0-10.0-N-022421 | 2/24/2021 | 0950 | 0246 | Independent | DPT-39 | 4.79 | | | | | Core | 8.0-10.0 | Sampled from Archived Core | NR | |
| 6121 | 20WS-0246-SO6121-0.0-4.0-N-022421 | 2/24/2021 | 1010 | 0246 | Independent | DPT-40 | 4.66 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6122 | 20WS-0246-SO6122-4.0-8.0-N-022421 | 2/24/2021 | 1014 | 0246 | Independent | DPT-40 | 3.92 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6123 | 20WS-0246-SO6123-8.0-8.7-N-062520 | 2/24/2021 | 1019 | 0246 | Independent | DPT-40 | 4.49 | | 1 | 1 | | Core | 8.0-8.7 | Sampled from Archived Core. Sample collection date and time is 6/25/20 at 14:10. | NR | 20WS-0246-SO6123-8.0-8.7-N-062520 |
| 6124 | 20WS-0246-SO6124-9.0-9.4-N-022421 | 2/24/2021 | 1027 | 0246 | Independent | DPT-40 | 4.59 | | | | | Core | 9.0-9.4 | Sampled from Archived Core | NR | |
| 6125 | 20WS-0285-SO6125-0.0-1.0-N-022421 | 2/24/2021 | 1030 | 0285 | Burlington | DPT-41 | 4.4 | | | | | Core | 0.0-1.0 | Sampled from Archived Core | NR | |
| 6126 | 20WS-1150-SO6126-0.0-4.0-N-022421 | 2/24/2021 | 1105 | 1150 | General Washington | DPT-42 | 5.24 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6127 | 20WS-1150-SO6127-4.0-8.0-N-022421 | 2/24/2021 | 1111 | 1150 | General Washington | DPT-42 | 6.04 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6128 | 20WS-1150-SO6128-8.0-12.0-N-022421 | 2/24/2021 | 1115 | 1150 | General Washington | DPT-42 | 5.53 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6129 | 20WS-1150-SO6129-12.0-16.0-N-022421 | 2/24/2021 | 1119 | 1150 | General Washington | DPT-42 | 5.65 | | | | | Core | 12.0-16.0 | Sampled from Archived Core | NR | |
| 6130 | 20WS-1150-SO6130-12.0-16.0-N-022421 | 2/24/2021 | 1127 | 1150 | General Washington | DPT-42B | 4.77 | | | | | Core | 12.0-16.0 | Sampled from Archived Core | NR | |
| 6131 | 20WS-1150-SO6131-16.0-20.0-N-022421 | 2/24/2021 | 1132 | 1150 | General Washington | DPT-42B | 4.26 | | | | | Core | 16.0-20.0 | Sampled from Archived Core | NR | |
| 6132 | 20WS-1150-SO6132-20.0-20.5-N-022421 | 2/24/2021 | 1135 | 1150 | General Washington | DPT-42B | 4.44 | | | | | Core | 20.0-20.5 | Sampled from Archived Core | NR | |
| 6133 | 20WS-1150-SO6133-16.0-20.5-N-062520 | 2/24/2021 | 1140 | 1150 | General Washington | DPT-42B | 4.33 | | 1 | 1 | 1 | Core | 16.0-20.5 | Sampled from Archived Core. Sample collection date and time is 6/25/20 at 16:30. DPT-42B-20.0-20.5 and DPT-42B-16.0-20.0 intervals combined for sample request due to lack of materials. | NR | 20WS-1150-SO6133-16.0-20.5-N-062520 |
| 6134 | 20WS-1150-SO6134-20.8-22.0-N-022421 | 2/24/2021 | 1152 | 1150 | General Washington | DPT-42B | 4.78 | | | | | Core | 20.8-22.0 | Sampled from Archived Core | NR | |
| 6135 | 20WS-0015-SO6135-0.0-4.0-N-022421 | 2/24/2021 | 1300 | 0015 | Milwaukee | DPT-43 | 6.02 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6136 | 20WS-0015-SO6136-4.0-5.0-N-022421 | 2/24/2021 | 1303 | 0015 | Milwaukee | DPT-43 | 7.28 | | | | | Core | 4.0-5.0 | Sampled from Archived Core | NR | |
| 6137 | 20WS-0015-SO6137-5.0-5.5-N-022421 | 2/24/2021 | 1308 | 0015 | Milwaukee | DPT-43 | 6.86 | | | | | Core | 5.0-5.5 | Sampled from Archived Core | NR | |
| 6138 | 20WS-0015-SO6138-8.0-8.7-N-022421 | 2/24/2021 | 1313 | 0015 | Milwaukee | DPT-43 | 6.97 | | | | | Core | 8.0-8.7 | Sampled from Archived Core | NR | |
| 6139 | 20WS-0015-SO6139-8.7-9.7-N-022421 | 2/24/2021 | 1316 | 0015 | Milwaukee | DPT-43 | 8.53 | | | | | Core | 8.7-9.7 | Sampled from Archived Core | NR | |
| 6140 | 20WS-0015-SO6140-9.7-10.8-N-022421 | 2/24/2021 | 1320 | 0015 | Milwaukee | DPT-43 | 8.3 | | | | | Core | 9.7-10.8 | Sampled from Archived Core | NR | |
| 6141 | 20WS-0015-SO6141-0.0-4.0-N-022421 | 2/24/2021 | 1324 | 0015 | Milwaukee | DPT-44 | 7.06 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6142 | 20WS-0015-SO6142-4.0-8.0-N-022421 | 2/24/2021 | 1329 | 0015 | Milwaukee | DPT-44 | 7.58 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6143 | 20WS-0015-SO6143-8.0-12.0-N-022421 | 2/24/2021 | 1333 | 0015 | Milwaukee | DPT-44 | 7.8 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6144 | 20WS-0015-SO6144-12.0-12.5-N-022421 | 2/24/2021 | 1338 | 0015 | Milwaukee | DPT-44 | 7.91 | | | | | Core | 12.0-12.5 | Sampled from Archived Core | NR | |
| 6145 | 20WS-0015-SO6145-13.0-14.3-N-022421 | 2/24/2021 | 1343 | 0015 | Milwaukee | DPT-44 | 7.06 | | | | | Core | 13.0-14.3 | Sampled from Archived Core | NR | |
| 6146 | 20WS-0015-SO6146-0.0-4.0-N-022421 | 2/24/2021 | 1351 | 0015 | Milwaukee | DPT-45 | 6.32 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6147 | 20WS-0015-SO6147-4.0-8.0-N-022421 | 2/24/2021 | 1356 | 0015 | Milwaukee | DPT-45 | 7.82 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6148 | 20WS-0015-SO6148-8.0-8.7-N-022421 | 2/24/2021 | 1404 | 0015 | Milwaukee | DPT-45 | 8.05 | | | | | Core | 8.0-8.7 | Sampled from Archived Core | NR | |
| 6149 | 20WS-0015-SO6149-9.0-9.3-N-022421 | 2/24/2021 | 1411 | 0015 | Milwaukee | DPT-45 | 5.06 | | | | | Core | 9.0-9.3 | Sampled from Archived Core | NR | |
| 6150 | 20WS-0015-SO6150-9.3-9.7-N-022421 | 2/24/2021 | 1414 | 0015 | Milwaukee | DPT-45 | 6.31 | | | | | Core | 9.3-9.7 | Sampled from Archived Core | NR | |
| 6151 | 20WS-0015-SO6151-0.0-4.0-N-022421 | 2/24/2021 | 1421 | 0015 | Milwaukee | DPT-46 | 7.78 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6152 | 20WS-0015-SO6152-4.0-8.0-N-022421 | 2/24/2021 | 1427 | 0015 | Milwaukee | DPT-46 | 8.26 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6153 | 20WS-0015-SO6153-8.0-9.2-N-022421 | 2/24/2021 | 1431 | 0015 | Milwaukee | DPT-46 | 7.95 | | | | | Core | 8.0-9.2 | Sampled from Archived Core | NR | |
| 6154 | 20WS-0015-SO6154-9.5-10.1-N-022421 | 2/24/2021 | 1435 | 0015 | Milwaukee | DPT-46 | 5.95 | | | | | Core | 9.5-10.1 | Sampled from Archived Core | NR | |
| 6155 | 20WS-0016-SO6155-0.0-4.0-N-022421 | 2/24/2021 | 1440 | 0016 | Orphan Boy | DPT-47 | 6.51 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6156 | 20WS-0016-SO6156-4.0-4.8-N-022421 | 2/24/2021 | 1444 | 0016 | Orphan Boy | DPT-47 | 4.86 | | | | | Core | 4.0-4.8 | Sampled from Archived Core | NR | |
| 6157 | 20WS-0016-SO6157-5.2-5.9-N-022421 | 2/24/2021 | 1446 | 0016 | Orphan Boy | DPT-47 | 4.76 | | | | | Core | 5.2-5.9 | Sampled from Archived Core | NR | |
| 6158 | 20WS-0016-SO6158-8.0-12.0-N-022421 | 2/24/2021 | 1451 | 0016 | Orphan Boy | DPT-47 | 6.76 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6159 | 20WS-0016-SO6159-0.0-4.0-N-022421 | 2/24/2021 | 1503 | 0016 | Orphan Boy | DPT-48 | 4.59 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6160 | 20WS-0016-SO6160-4.0-8.0-N-022421 | 2/24/2021 | 1506 | 0016 | Orphan Boy | DPT-48 | 5.69 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6161 | 20WS-0016-SO6161-8.0-12.0-N-070120 | 2/24/2021 | 1510 | 0016 | Orphan Boy | DPT-48 | 5.98 | | | | 1 | Core | 8.0-12.0 | Sampled from Archived Core. Sample collection date and time is 7/1/20 at 09:48. | NR | 20WS-0016-SO6161-8.0-12.0-N-070120 |
| 6162 | 20WS-0016-SO6162-12.0-12.7-N-070120 | 2/24/2021 | 1513 | 0016 | Orphan Boy | DPT-48 | 3.99 | | 1 | 1 | | Core | 12.0-12.7 | Sampled from Archived Core. Sample collection date and time is 7/1/20 at 10:00. | NR | 20WS-0016-SO6162-12.0-12.7-N-070120 |
| 6163 | 20WS-0016-SO6163-13.0-14.7-N-022421 | 2/24/2021 | 1525 | 0016 | Orphan Boy | DPT-48 | 3.87 | | | | | Core | 13.0-14.7 | Sampled from Archived Core | NR | |
| 6164 | 20WS-0016-SO6164-0.0-4.0-N-022621 | 2/26/2021 | 0940 | 0016 | Orphan Boy | DPT-49 | 8.83 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6165 | 20WS-0016-SO6165-4.0-8.0-N-022621 | 2/26/2021 | 0951 | 0016 | Orphan Boy | DPT-49 | 11.17 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6166 | 20WS-0016-SO6166-8.0-12.0-N-070120 | 2/26/2021 | 0959 | 0016 | Orphan Boy | DPT-49 | 9.28 | | 1 | | | Core | 8.0-12.0 | Sampled from Archived Core. Sample collection date and time is 7/1/20 at 10:38. | NR | 20WS-0016-SO6166-8.0-12.0-N-070120 |

Table 3: Subsurface Soils Sample Collection Summary

| SAMPLE # | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Bore Hole # | SOIL pH | XRF | Metals | SPLP | ABA | Sample Type | Depth Interval (ft bgs) | NOTES | Staining | LAB SAMPLE FIELD ID |
|----------|-------------------------------------|-----------|------|-------------|--------------------|-------------|---------|-----|--------|------|-----|-------------|-------------------------|---|-------------|--|
| 6167 | 20WS-0016-SO6167-12.0-12.7-N-022621 | 2/26/2021 | 1008 | 0016 | Orphan Boy | DPT-49 | 7.26 | | | | | Core | 12.0-12.7 | Sampled from Archived Core | NR | |
| 6168 | 20WS-0016-SO6168-13.2-13.7-N-022621 | 2/26/2021 | 1013 | 0016 | Orphan Boy | DPT-49 | 6.42 | | | | | Core | 13.2-13.7 | Sampled from Archived Core | NR | |
| 6169 | 20WS-0016-SO6169-0.0-4.0-N-070120 | 2/26/2021 | 1022 | 0016 | Orphan Boy | DPT-50 | 4.95 | | 1 | 1 | | Core | 0.0-1.3 | Sampled from Archived Core. Sample collection date and time is 7/1/20 at 11:18. | NR | 20WS-0016-SO6169-0.0-1.3-N-070120 |
| 6170 | 20WS-0016-SO6170-5.0-7.5-N-022621 | 2/26/2021 | 1035 | 0016 | Orphan Boy | DPT-50 | 4.46 | | | | | Core | 5.0-7.5 | Sampled from Archived Core | NR | |
| 6171 | 20WS-0013-SO6171-0.0-4.0-N-022621 | 2/26/2021 | 1105 | 0013 | Georgie | DPT-51 | 5.41 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6172 | 20WS-0013-SO6172-4.0-8.0-N-022621 | 2/26/2021 | 1114 | 0013 | Georgie | DPT-51 | 5.22 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6173 | 20WS-0013-SO6173-8.0-12.0-N-022621 | 2/26/2021 | 1120 | 0013 | Georgie | DPT-51 | 4.2 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6174 | 20WS-0013-SO6174-12.0-12.3-N-022621 | 2/26/2021 | 1125 | 0013 | Georgie | DPT-51 | 4.68 | | | | | Core | 12.0-12.3 | Sampled from Archived Core | NR | |
| 6175 | 20WS-0013-SO6175-12.6-13.8-N-022621 | 2/26/2021 | 1131 | 0013 | Georgie | DPT-51 | 4.37 | | | | | Core | 12.6-13.8 | Sampled from Archived Core | NR | |
| 6176 | 20WS-1150-SO6176-0.0-4.0-N-022621 | 2/26/2021 | 1135 | 1150 | General Washington | DPT-52 | 4.6 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6177 | 20WS-1150-SO6177-4.0-8.0-N-022621 | 2/26/2021 | 1139 | 1150 | General Washington | DPT-52 | 5.24 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6178 | 20WS-1150-SO6178-8.0-12.0-N-022621 | 2/26/2021 | 1142 | 1150 | General Washington | DPT-52 | 4.41 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6179 | 20WS-1150-SO6179-12.0-12.3-N-022621 | 2/26/2021 | 1147 | 1150 | General Washington | DPT-52 | 3.94 | | | | | Core | 12.0-12.3 | Sampled from Archived Core | NR | |
| 6180 | 20WS-1150-SO6180-12.7-13.5-N-022621 | 2/26/2021 | 1152 | 1150 | General Washington | DPT-52 | 5.59 | | | | | Core | 12.7-13.5 | Sampled from Archived Core | NR | |
| 6181 | 20WS-1150-SO6181-13.5-15-N-022621 | 2/26/2021 | 1202 | 1150 | General Washington | DPT-52 | 6.43 | | | | | Core | 13.5-15 | Sampled from Archived Core | NR | |
| 6182 | 20WS-1150-SO6182-0.0-4.0-N-022621 | 2/26/2021 | 1211 | 1150 | General Washington | DPT-53 | 5.55 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6183 | 20WS-1150-SO6183-4.0-8.0-N-022621 | 2/26/2021 | 1216 | 1150 | General Washington | DPT-53 | 4.53 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6184 | 20WS-1150-SO6184-8.0-12.0-N-022621 | 2/26/2021 | 1222 | 1150 | General Washington | DPT-53 | 4.96 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6185 | 20WS-1150-SO6185-16.0-20.0-N-022621 | 2/26/2021 | 1228 | 1150 | General Washington | DPT-53 | 5.52 | | | | | Core | 16.0-20.0 | Sampled from Archived Core | NR | |
| 6186 | 20WS-1150-SO6186-20.0-24.0-N-070120 | 2/26/2021 | 1233 | 1150 | General Washington | DPT-53 | 5.7 | | 1 | 1 | | Core | 20.0-24.0 | Sampled from Archived Core. Sample collection date and time is 7/1/20 at 14:46. | NR | 20WS-1150-SO6186-20.0-24.0-N-070120 |
| 6187 | 20WS-1150-SO6187-24.0-24.4-N-022621 | 2/26/2021 | 1243 | 1150 | General Washington | DPT-53 | 6.01 | | | | | Core | 24.0-24.4 | Sampled from Archived Core | NR | |
| 6188 | 20WS-1150-SO6188-24.9-26.0-N-022621 | 2/26/2021 | 1252 | 1150 | General Washington | DPT-53 | 5.05 | | | | | Core | 24.9-26.0 | Sampled from Archived Core | NR | |
| 6189 | 20WS-0288-SO6189-0.0-4.0-N-070220 | 3/1/2021 | 0934 | 0288 | Nettie | DPT-54 | 4.36 | | 2 | 2 | | Core | 0.0-4.0 | Sampled from Archived Core. Sample collection date and time is 7/2/20 at 08:40. Lab Dup at 08:42. | NR | 20WS-0288-SO6189-0.0-4.0-N-070220 20WS-0288-SO6189-0.0-4.0-D-070220 |
| 6190 | 20WS-0288-SO6190-4.9-6.2-N-030121 | 3/1/2021 | 0954 | 0288 | Nettie | DPT-54 | 6.7 | | | | | Core | 4.9-6.2 | Sampled from Archived Core | NR | |
| 6191 | 20WS-0288-SO6191-0.0-0.8-N-030121 | 3/1/2021 | 1005 | 0288 | Nettie | DPT-55 | 5.41 | | | | | Core | 0.0-0.8 | Sampled from Archived Core | NR | |
| 6192 | 20WS-0288-SO6192-4.0-6.0-N-030121 | 3/1/2021 | 1013 | 0288 | Nettie | DPT-55 | 4.89 | | | | | Core | 4.0-6.0 | Sampled from Archived Core | NR | |
| 6193 | 20WS-0288-SO6193-0.0-1.1-N-030121 | 3/1/2021 | 1018 | 0288 | Nettie | DPT-56 | 5.68 | | | | | Core | 0.0-1.1 | Sampled from Archived Core | NR | |
| 6194 | 20WS-0288-SO6194-1.1-1.6-N-030121 | 3/1/2021 | 1022 | 0288 | Nettie | DPT-56 | 4.92 | | | | | Core | 1.1-1.6 | Sampled from Archived Core | NR | |
| 6195 | 20WS-0288-SO6195-0.0-1.6-N-070220 | 3/1/2021 | 1032 | 0288 | Nettie | DPT-56 | 5.23 | | 1 | 1 | 1 | Core | 0.0-1.6 | Sampled from Archived Core. Sample collection date and time is 7/2/20 at 09:55. Not enough material for requested sample interval, DPT-56-0.0-1.1 and DPT-56-1.1-1.6 combined for sample. | NR | 20WS-0288-SO6195-0.0-1.6-N-070220 |
| 6196 | 20WS-0288-SO6196-4.5-6.0-N-030121 | 3/1/2021 | 1046 | 0288 | Nettie | DPT-56 | 4.97 | | | | | Core | 4.5-6.0 | Sampled from Archived Core | NR | |
| 6197 | 20WS-0288-SO6197-0.0-0.7-N-070220 | 3/1/2021 | 1058 | 0288 | Nettie | DPT-57 | 6.07 | | 1 | 1 | | Core | 0.0-0.7 | Sampled from Archived Core. Sample collection date and time is 7/2/20 at 10:22. | NR | 20WS-0288-SO6197-0.0-0.7-N-070220 |
| 6198 | 20WS-0288-SO6198-0.7-0.9-N-030121 | 3/1/2021 | 1114 | 0288 | Nettie | DPT-57 | 5.04 | | | | | Core | 0.7-0.9 | Sampled from Archived Core | NR | |
| 6199 | 20WS-0288-SO6199-0.0-4.0-N-030121 | 3/1/2021 | 1125 | 0288 | Nettie | DPT-58 | 4.85 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6200 | 20WS-0288-SO6200-4.0-8.0-N-030121 | 3/1/2021 | 1131 | 0288 | Nettie | DPT-58 | 4.76 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6201 | 20WS-0288-SO6201-8.0-12.0-N-030121 | 3/1/2021 | 1137 | 0288 | Nettie | DPT-58 | 5.19 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | Mn Staining | |
| 6202 | 20WS-0289-SO6202-0.0-4.0-N-030121 | 3/1/2021 | 1314 | 0289 | Hibernia | DPT-59 | 5.07 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6203 | 20WS-0289-SO6203-4.0-4.7-N-030121 | 3/1/2021 | 1319 | 0289 | Hibernia | DPT-59 | 5.4 | | | | | Core | 4.0-4.7 | Sampled from Archived Core | NR | |
| 6204 | 20WS-0289-SO6204-4.7-5.2-N-030121 | 3/1/2021 | 1324 | 0289 | Hibernia | DPT-59 | 4.97 | | | | | Core | 4.7-5.2 | Sampled from Archived Core | NR | |
| 6205 | 20WS-0289-SO6205-5.2-5.7-N-030121 | 3/1/2021 | 1330 | 0289 | Hibernia | DPT-59 | 4.2 | | | | | Core | 5.2-5.7 | Sampled from Archived Core | NR | |
| 6206 | 20WS-0289-SO6206-8.5-8.8-N-030121 | 3/1/2021 | 1342 | 0289 | Hibernia | DPT-59 | 4.45 | | | | | Core | 8.5-8.8 | Sampled from Archived Core | Mn present | |
| 6207 | 20WS-0289-SO6207-8.8-9.3-N-030121 | 3/1/2021 | 1351 | 0289 | Hibernia | DPT-59 | 4.52 | | | | | Core | 8.8-9.3 | Sampled from Archived Core | NR | |
| 6208 | 20WS-0289-SO6208-12.0-12.3-N-030121 | 3/1/2021 | 1405 | 0289 | Hibernia | DPT-59 | 4.55 | | | | | Core | 12.0-12.3 | Sampled from Archived Core | NR | |
| 6209 | 20WS-0289-SO6209-12.6-14.0-N-030121 | 3/1/2021 | 1416 | 0289 | Hibernia | DPT-59 | 4.97 | | | | | Core | 12.6-14.0 | Sampled from Archived Core | NR | |
| 6210 | 20WS-0289-SO6210-0.0-4.0-N-030121 | 3/1/2021 | 1428 | 0289 | Hibernia | DPT-60 | 5.68 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6211 | 20WS-0289-SO6211-4.0-4.6-N-030121 | 3/1/2021 | 1437 | 0289 | Hibernia | DPT-60 | 4.56 | | | | | Core | 4.0-4.6 | Sampled from Archived Core | NR | |
| 6212 | 20WS-0289-SO6212-4.6-4.8-N-030121 | 3/1/2021 | 1441 | 0289 | Hibernia | DPT-60 | 4.38 | | | | | Core | 4.6-4.8 | Sampled from Archived Core | Mn present | |
| 6213 | 20WS-0289-SO6213-4.8-5.0-N-030121 | 3/1/2021 | 1454 | 0289 | Hibernia | DPT-60 | 4.25 | | | | | Core | 4.8-5.0 | Sampled from Archived Core | NR | |
| 6214 | 20WS-0289-SO6214-5.0-5.8-N-030121 | 3/1/2021 | 1500 | 0289 | Hibernia | DPT-60 | 4.67 | | | | | Core | 5.0-5.8 | Sampled from Archived Core | NR | |
| 6215 | 20WS-0289-SO6215-8.0-12.0-N-030121 | 3/1/2021 | 1506 | 0289 | Hibernia | DPT-60 | 4.77 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6216 | 20WS-0289-SO6216-12.0-12.8-N-070220 | 3/1/2021 | 1512 | 0289 | Hibernia | DPT-60 | 4.93 | | 1 | 1 | | Core | 12.0-12.8 | Sampled from Archived Core. Sample collection date and time is 7/2/20 at 13:35. | NR | 20WS-0289-SO6216-12.0-12.8-N-070220 |
| 6217 | 20WS-0289-SO6217-13.3-14.0-N-030121 | 3/1/2021 | 1522 | 0289 | Hibernia | DPT-60 | 5.16 | | | | | Core | 13.3-14.0 | Sampled from Archived Core | NR | |
| 6218 | 20WS-0246-SO6218-0.0-4.0-N-030121 | 3/1/2021 | 1527 | 0246 | Independent | DPT-37 | 5.81 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6219 | 20WS-0162-SO6219-0.0-4.0-N-030121 | 3/1/2021 | 1538 | 0162 | Marget Ann | DPT-61 | 7.82 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6220 | 20WS-0162-SO6220-4.0-8.0-N-030121 | 3/1/2021 | 1542 | 0162 | Marget Ann | DPT-61 | 8.02 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6221 | 20WS-0162-SO6221-8.0-12.0-N-030121 | 3/1/2021 | 1547 | 0162 | Marget Ann | DPT-61 | 7.32 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6222 | 20WS-0162-SO6222-12.0-12.3-N-030121 | 3/1/2021 | 1557 | 0162 | Marget Ann | DPT-61 | 7.22 | | | | | Core | 12.0-12.3 | Sampled from Archived Core | NR | |
| 6223 | 20WS-0162-SO6223-12.7-12.9-N-030121 | 3/1/2021 | 1606 | 0162 | Marget Ann | DPT-61 | 6.82 | | | | | Core | 12.7-12.9 | Sampled from Archived Core | NR | |
| 6224 | 20WS-0162-SO6224-12.9-14.4-N-030121 | 3/1/2021 | 1612 | 0162 | Marget Ann | DPT-61 | 7.57 | | | | | Core | 12.9-14.4 | Sampled from Archived Core | NR | |
| 6225 | 20WS-0162-SO6225-0.0-4.0-N-030121 | 3/1/2021 | 1628 | 0162 | Marget Ann | DPT-62 | 8.5 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6226 | 20WS-0162-SO6226-4.0-8.0-N-030121 | 3/1/2021 | 1634 | 0162 | Marget Ann | DPT-62 | 5.92 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6227 | 20WS-0162-SO6227-8.0-12.0-N-030121 | 3/1/2021 | 1639 | 0162 | Marget Ann | DPT-62 | 7.1 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |

Table 3: Subsurface Soils Sample Collection Summary

| SAMPLE # | NAME | DATE | TIME | CDM CLAIM # | MINING CLAIM NAME | Bore Hole # | SOIL pH | XRF | Metals | SPLP | ABA | Sample Type | Depth Interval (ft bgs) | NOTES | Staining | LAB SAMPLE FIELD ID |
|--------------|-------------------------------------|----------|------|-------------|-------------------|-------------|------------|-----|-----------|------------|-----------|-------------|-------------------------|---|----------|-------------------------------------|
| 6228 | 20WS-0162-SO6228-0.0-12.0-N-070620 | 3/1/2021 | 1654 | 0162 | Marget Ann | DPT-62 | 6.59 | | 1 | 1 | | Core | 0.0-4.0 | Sampled from Archived Core. Sample collection date and time is 7/6/20 at 11:18. Combined SO6225, SO6226, and SO6227 for sample due to coarse and poor recovery. | NR | 20WS-0162-SO6228-0.0-12.0-N-070620 |
| 6229 | 20WS-0162-SO6229-16.4-16.8-N-030121 | 3/1/2021 | 1707 | 0162 | Marget Ann | DPT-62 | 7.1 | | | | | Core | 16.4-16.8 | Sampled from Archived Core | NR | |
| 6230 | 20WS-0162-SO6230-16.8-17.4-N-030121 | 3/1/2021 | 1718 | 0162 | Marget Ann | DPT-62 | 7.08 | | | | | Core | 16.8-17.4 | Sampled from Archived Core | NR | |
| 6231 | 20WS-0162-SO6231-0.0-4.0-N-030221 | 3/2/2021 | 0842 | 0162 | Marget Ann | DPT-63 | 8.39 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6232 | 20WS-0162-SO6232-4.0-8.0-N-030221 | 3/2/2021 | 0846 | 0162 | Marget Ann | DPT-63 | 8.31 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6233 | 20WS-0162-SO6233-8.0-12.0-N-070620 | 3/2/2021 | 0849 | 0162 | Marget Ann | DPT-63 | 8.42 | | 1 | | | Core | 8.0-12.0 | Sampled from Archived Core. Sample collection date and time is 7/6/20 at 12:05. | NR | 20WS-0162-SO6233-8.0-12.0-N-070620 |
| 6234 | 20WS-0162-SO6234-12.0-16.0-N-030221 | 3/2/2021 | 0900 | 0162 | Marget Ann | DPT-63 | 8.55 | | | | | Core | 12.0-16.0 | Sampled from Archived Core | NR | |
| 6235 | 20WS-0162-SO6235-16.0-20.0-N-030221 | 3/2/2021 | 0905 | 0162 | Marget Ann | DPT-63 | 9.23 | | | | | Core | 16.0-20.0 | Sampled from Archived Core | NR | |
| 6236 | 20WS-0162-SO6236-20.4-22.2-N-030221 | 3/2/2021 | 0909 | 0162 | Marget Ann | DPT-63 | 7.66 | | | | | Core | 20.4-22.2 | Sampled from Archived Core | NR | |
| 6237 | 20WS-0138-SO6237-0.0-4.0-N-030221 | 3/2/2021 | 0919 | 0138 | Glengarry | DPT-64 | 8.54 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6238 | 20WS-0138-SO6238-4.0-12.0-N-030221 | 3/2/2021 | 0927 | 0138 | Glengarry | DPT-64 | 8.03 | | | | | Core | 4.0-12.0 | Sampled from Archived Core | NR | |
| 6239 | 20WS-0138-SO6239-12.0-12.8-N-070620 | 3/2/2021 | 0932 | 0138 | Glengarry | DPT-64 | 6.92 | | 1 | | | Core | 12.0-12.8 | Sampled from Archived Core. Sample collection date and time is 7/6/20 at 14:05. | NR | 20WS-0138-SO6239-12.0-12.8-N-070620 |
| 6240 | 20WS-0138-SO6240-0.0-4.0-N-030221 | 3/2/2021 | 0944 | 0138 | Glengarry | DPT-65 | 8.82 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6241 | 20WS-0138-SO6241-4.0-8.0-N-030221 | 3/2/2021 | 0949 | 0138 | Glengarry | DPT-65 | 6.78 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6242 | 20WS-0138-SO6242-8.0-12.0-N-030221 | 3/2/2021 | 0956 | 0138 | Glengarry | DPT-65 | 6.44 | | | | | Core | 8.0-12.0 | Sampled from Archived Core | NR | |
| 6243 | 20WS-0138-SO6243-12.0-13.1-N-030221 | 3/2/2021 | 1000 | 0138 | Glengarry | DPT-65 | 7.98 | | | | | Core | 12.0-13.1 | Sampled from Archived Core | NR | |
| 6244 | 20WS-0138-SO6244-0.0-4.0-N-030221 | 3/2/2021 | 1005 | 0138 | Glengarry | DPT-66 | 5.56 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6245 | 20WS-0138-SO6245-4.0-8.0-N-030221 | 3/2/2021 | 1014 | 0138 | Glengarry | DPT-66 | 5.94 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6246 | 20WS-0138-SO6246-8.0-9.5-N-070620 | 3/2/2021 | 1019 | 0138 | Glengarry | DPT-66 | 5.37 | | 1 | 1 | 1 | Core | 8.0-9.5 | Sampled from Archived Core. Sample collection date and time is 7/6/20 at 15:30. | NR | 20WS-0138-SO6246-8.0-9.5-N-070620 |
| 6247 | 20WS-0179-SO6247-0.0-4.0-N-030221 | 3/2/2021 | 1035 | 0179 | Eagle | DPT-67 | 3.55 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6248 | 20WS-0179-SO6248-4.2-6.2-N-030221 | 3/2/2021 | 1041 | 0179 | Eagle | DPT-67 | 3.68 | | | | | Core | 4.2-6.2 | Sampled from Archived Core | NR | |
| 6249 | 20WS-0179-SO6249-0.0-0.2-N-030221 | 3/2/2021 | 1045 | 0179 | Eagle | DPT-68 | 3.71 | | | | | Core | 0.0-0.2 | Sampled from Archived Core | NR | |
| 6250 | 20WS-0179-SO6250-0.7-2.0-N-030221 | 3/2/2021 | 1049 | 0179 | Eagle | DPT-68 | 3.49 | | | | | Core | 0.7-2.0 | Sampled from Archived Core | NR | |
| 6251 | 20WS-0179-SO6251-0.0-4.0-N-030221 | 3/2/2021 | 1207 | 0179 | Eagle | DPT-69 | 3.41 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6252 | 20WS-0179-SO6252-4.0-5.4-N-070820 | 3/2/2021 | 1215 | 0179 | Eagle | DPT-69 | 3.07 | | 1 | 1 | 1 | Core | 4.0-5.4 | Sampled from Archived Core. Sample collection date and time is 7/8/20 at 08:57. | NR | 20WS-0179-SO6252-4.0-5.4-N-070820 |
| 6253 | 20WS-0179-SO6253-5.7-6.3-N-030221 | 3/2/2021 | 1227 | 0179 | Eagle | DPT-69 | 3.73 | | | | | Core | 5.7-6.3 | Sampled from Archived Core | NR | |
| 6254 | 20WS-0179-SO6254-0.0-4.0-N-030221 | 3/2/2021 | 1235 | 0179 | Eagle | DPT-70 | 3.53 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6255 | 20WS-0179-SO6255-0.0-4.0-N-030221 | 3/2/2021 | 1240 | 0179 | Eagle | DPT-70B | 3.21 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6256 | 20WS-0179-SO6256-4.0-4.3-N-070820 | 3/2/2021 | 1245 | 0179 | Eagle | DPT-70B | 3.28 | | 1 | | | Core | 4.0-4.3 | Sampled from Archived Core. Sample collection date and time is 7/8/20 at 10:15. | NR | 20WS-0179-SO6256-4.0-4.3-N-070820 |
| 6257 | 20WS-0179-SO6257-4.9-6.2-N-030221 | 3/2/2021 | 1253 | 0179 | Eagle | DPT-70B | 3.47 | | | | | Core | 4.9-6.2 | Sampled from Archived Core | NR | |
| 6258 | 20WS-0179-SO6258-0.0-0.7-N-030221 | 3/2/2021 | 1302 | 0179 | Eagle | DPT-71 | 3.42 | | | | | Core | 0.0-0.7 | Sampled from Archived Core | NR | |
| 6259 | 20WS-0179-SO6259-1.2-2.1-N-030221 | 3/2/2021 | 1307 | 0179 | Eagle | DPT-71 | 3.65 | | | | | Core | 1.2-2.1 | Sampled from Archived Core | NR | |
| 6260 | 20WS-0017-SO6260-0.0-4.0-N-030221 | 3/2/2021 | 1309 | 0017 | Kit Carson | DPT-72 | 8.09 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6261 | 20WS-0017-SO6261-4.0-8.0-N-030221 | 3/2/2021 | 1313 | 0017 | Kit Carson | DPT-72 | 8.71 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6262 | 20WS-0017-SO6262-8.0-8.1-N-030221 | 3/2/2021 | 1318 | 0017 | Kit Carson | DPT-72 | 8.13 | | | | | Core | 8.0-8.1 | Sampled from Archived Core | NR | |
| 6263 | 20WS-0017-SO6263-8.6-9.6-N-030221 | 3/2/2021 | 1323 | 0017 | Kit Carson | DPT-72 | 8.36 | | | | | Core | 8.6-9.6 | Sampled from Archived Core | NR | |
| 6264 | 20WS-0019-SO6264-0.0-4.0-N-030221 | 3/2/2021 | 1327 | 0019 | Chammmer | DPT-73 | 2.97 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6265 | 20WS-0019-SO6265-4.0-5.3-N-030221 | 3/2/2021 | 1334 | 0019 | Chammmer | DPT-73 | 4.64 | | | | | Core | 4.0-5.3 | Sampled from Archived Core | NR | |
| 6266 | 20WS-0019-SO6266-5.7-6.0-N-030221 | 3/2/2021 | 1340 | 0019 | Chammmer | DPT-73 | 6.43 | | | | | Core | 5.7-6.0 | Sampled from Archived Core | NR | |
| 6267 | 20WS-0017-SO6267-0.0-4.0-N-030221 | 3/2/2021 | 1346 | 0017 | Kit Carson | DPT-74 | 9.04 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6268 | 20WS-0017-SO6268-4.0-8.0-N-030221 | 3/2/2021 | 1349 | 0017 | Kit Carson | DPT-74 | 9.17 | | | | | Core | 4.0-8.0 | Sampled from Archived Core | NR | |
| 6269 | 20WS-0017-SO6269-8.0-12.4-N-030221 | 3/2/2021 | 1353 | 0017 | Kit Carson | DPT-74 | 9.2 | | | | | Core | 8.0-12.4 | Sampled from Archived Core | NR | |
| 6270 | 20WS-0017-SO6270-12.8-14.0-N-030221 | 3/2/2021 | 1356 | 0017 | Kit Carson | DPT-74 | 8.18 | | | | | Core | 12.8-14.0 | Sampled from Archived Core | NR | |
| 6271 | 20WS-0315-SO6271-0.0-4.0-N-030221 | 3/2/2021 | 1417 | 0315 | Garibaldi | DPT-75 | 4.56 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6272 | 20WS-0315-SO6272-4.0-8.0-N-070920 | 3/2/2021 | 1421 | 0315 | Garibaldi | DPT-75 | 5.45 | | 1 | 1 | | Core | 4.0-8.0 | Sampled from Archived Core. Sample collection date and time is 7/9/20 at 08:55. | NR | 20WS-0315-SO6272-4.0-8.0-N-070920 |
| 6273 | 20WS-0315-SO6273-8.0-8.8-N-030221 | 3/2/2021 | 1428 | 0315 | Garibaldi | DPT-75 | 5.4 | | | | | Core | 8.0-8.8 | Sampled from Archived Core | NR | |
| 6274 | 20WS-0315-SO6274-9.0-9.3-N-030221 | 3/2/2021 | 1433 | 0315 | Garibaldi | DPT-75 | 5.57 | | | | | Core | 9.0-9.3 | Sampled from Archived Core | NR | |
| 6275 | 20WS-0315-SO6275-0.0-4.0-N-030221 | 3/2/2021 | 1438 | 0315 | Garibaldi | DPT-76 | 5.68 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6276 | 20WS-0315-SO6276-4.0-4.3-N-030221 | 3/2/2021 | 1505 | 0315 | Garibaldi | DPT-76 | 8.62 | | | | | Core | 4.0-4.3 | Sampled from Archived Core | NR | |
| 6277 | 20WS-0315-SO6277-4.7-6.8-N-030221 | 3/2/2021 | 1510 | 0315 | Garibaldi | DPT-76 | 9.22 | | | | | Core | 4.7-6.8 | Sampled from Archived Core | NR | |
| 6278 | 20WS-0315-SO6278-0.0-4.0-N-030221 | 3/2/2021 | 1518 | 0315 | Garibaldi | DPT-77 | 5.86 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6279 | 20WS-0315-SO6279-4.0-4.3-N-030221 | 3/2/2021 | 1528 | 0315 | Garibaldi | DPT-77 | 4.71 | | | | | Core | 4.0-4.3 | Sampled from Archived Core | NR | |
| 6280 | 20WS-0315-SO6280-0.0-4.3-N-070920 | 3/2/2021 | 1535 | 0315 | Garibaldi | DPT-77 | 5.06 | | 1 | 1 | | Core | 0.0-4.3 | Sampled from Archived Core. Sample collection date and time is 7/9/20 at 11:00. | NR | 20WS-0315-SO6280-0.0-4.3-N-070920 |
| 6281 | 20WS-0315-SO6281-4.6-6.3-N-030221 | 3/2/2021 | 1557 | 0315 | Garibaldi | DPT-77 | 8.35 | | | | | Core | 4.6-6.3 | Sampled from Archived Core | NR | |
| 6282 | 20WS-0315-SO6282-0.0-4.0-N-030221 | 3/2/2021 | 1600 | 0315 | Garibaldi | DPT-78 | 4.56 | | | | | Core | 0.0-4.0 | Sampled from Archived Core | NR | |
| 6283 | 20WS-0315-SO6283-4.0-5.3-N-030221 | 3/2/2021 | 1606 | 0315 | Garibaldi | DPT-78 | 4.24 | | | | | Core | 4.0-5.3 | Sampled from Archived Core | NR | |
| Total | | | | | | | 399 | | 77 | 114 | 31 | 13 | | | | |

NOTE: FPXRF analysis was run on the natural sample collected. Therefore, the sample was not sieved as usual in order to maintain integrity of natural sample.

APPENDICES

(Provided electronically with this document)

Appendix A Atlantic Richfield Responses to Agency Comment Letter Dated April 27, 2021, Specific to General Comments for Data Management and Remedial Investigation Data Collection

Appendix A.1 Atlantic Richfield Response Table to General Agency Comments

Appendix A.2 Notes and Comments Added to the Agency's Additional Archived Core Sampling Request Table

Appendix B Data Validation Reports

Appendix B.1 2019 Remedial Investigation Sampling Laboratory Data Validation Report

Appendix B.2 2020 Remedial Investigation Sampling Laboratory Data Validation Report

Appendix B.3 2019-2020 Remedial Investigation Sampling Field-Portable X-Ray Fluorescence Data Validation Report

Appendix B.4 2021 Remedial Investigation Archived Core Sampling Laboratory Data Validation Report

Appendix B.5 2021 WSSOU Additional Surface Sampling Laboratory Data Validation Report

Appendix B.6 2021 WSSOU Additional Surface Sampling Field-Portable X-Ray Fluorescence Data Validation Report

Appendix C Copies of Field Notes

Appendix C.1 Copies of Field Logbook Entries

Appendix C.2 Copies of Sampling Field Data Sheets

Appendix C.3 Copies of FPXRF Field Data Sheets

Appendix C.4 Direct Push Technology Boring Logs

Appendix C.5 Direct Push Technology Field Photolog

Appendix D Laboratory Analytical Full Data Packages

Appendix D.1 2019 Pace Laboratory Full Data Packages

Appendix D.2 2020 Pace Laboratory Full Data Packages

Appendix D.3 2021 Archived Core Sample Pace Laboratory Full Data Packages

Appendix D.4 2021 Additional Surface Sample Pace Laboratory Full Data Packages

Appendix E Electronic Database