U.S. Department of Justice
Environment and Natural Resources Division

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May 19, 2023

Ms. Molly C. Dwyer, Clerk of Court
U.S. Court of Appeals for the Ninth Circuit
95 Seventh Street
San Francisco, California 94103

Re: Nos. 23-15259, 23-15261, 23-15262
Western Watersheds Project, et al. v. Burton, et al.
Notification of Recent Developments Under Fed. R. App. 28(j)

Dear Ms. Dwyer:

Federal Appellees notify the Court of recent factual developments relevant to the status of the challenged Project. On May 16, 2023, the U.S. Bureau of Land Management (BLM) completed the analysis on remand directed by the district court. Thacker Pass Completion of Remand and Mineral Report, attached as Exhibit A; *see also* 1-BRLER-10–20 (district court decision). After assessing the mineralization of the lands underlying the relevant mining claims, BLM affirmed its prior approval of the mining plan of operations, with the caveat that the lands underlying 8 out of 107 mining claims may not be used for storage of waste rock and tailings at this time. Ex. A, Cover Page at 1; Report at 7.

The Solicitor of the U.S. Department of the Interior also issued an opinion addressing the agency's approval of waste rock and tailings facilities as part of mining plans of operations proposed on public lands that are open to the operation of the Mining Law of 1872. *Use of Mining Claims for Mine Waste Deposition*, M-37077 (May 16, 2023), attached as Exhibit B.

These new documents implicate only the portion of the district court's decision that was *favorable to Appellants*, as discussed on pages 27, 33–35 of Federal Appellees' Answering Brief, and are not relevant to the merits of these consolidated appeals. If Appellants disagree with any part of BLM's analysis on remand, they should make those arguments first to a district court in a justiciable action on the appropriate record.

Respectfully submitted,

/s/ Amelia G. Yowell
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Counsel for Federal Defendants-Appellees

cc: All counsel via CM/ECF

CERTIFICATE OF COMPLIANCE

This letter complies with the word limitations of Federal Rule of Appellate Procedure 28(j) because, excluding the parts of the document exempted by Rule 32(f), the document contains 247 words. This document complies with the typeface requirements of Federal Rule of Appellate Procedure 32(a)(5) and the type-style requirements of Rule 32(a)(6) because the document has been prepared in a proportionally spaced typeface using Microsoft Word 2016 in 14-point Times New Roman font.

/s/ Amelia G. Yowell
Amelia G. Yowell

Counsel for Federal Defendants-Appellees

Exhibit A

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Serial Number
NVN098586

THACKER PASS PROJECT
PLAN OF OPERATIONS AND
RECLAMATION PERMIT

LANDS INVOLVED

Mount Diablo Baseline & Meridian

T44N, R34E, sections 1 and 12.
T44N, R35E, sections 2-17.
T44N, R36E, sections 7, 8, 14-23, and 29.
Humboldt County, Nevada

16 May 2023

(Date)

Authorized Officer:

SAMUEL BURTON

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Date: 2023.05.16 00:06:06 -07'00'

Samuel R.M. Burton Date
District Manager
Bureau of Land Management

Consistent with the summary judgment and remand order in *Bartell Ranch LLC v. McCullough*, No. 3:21-cv-00080-MMD-CLB, 2023 U.S. Dist. LEXIS 19280 (D. Nev. Feb. 6, 2023) and 43 C.F.R. 3809.411, the Bureau of Land Management (BLM) affirms its prior approval of the Thacker Pass Plan of Operations, with the caveat that eight of the mining claims underlying the plan of operations may not be used for the use proposed in the plan, namely waste rock storage.

On August 5, 2019, Lithium Nevada Corporation submitted the Thacker Pass Project Plan of Operations (Project) to the BLM, Humboldt River Field Office for review. The Thacker Pass Project is located in northern Humboldt County, Nevada, approximately 20 miles west-northwest of Orovada, Nevada, and approximately 20 miles south of the Oregon border. The Project proposes to disturb approximately 5,695 acres to develop an open pit lithium mine and processing plant with a life expectancy of 41 years.

BLM approved the Project in January 2021, and the decision was challenged in the United States District Court for the District of Nevada. Applying the Ninth Circuit's decision in *Center for Biological Diversity v. United States Fish and Wildlife Service*, 33 F.4th 1202 (9th Cir. 2022) — commonly known as the "*Rosemont*" decision, after the mine at issue in that case — the Nevada District Court's summary judgment order required BLM to "evaluate the mining project proponent's rights under lands [the proponent] intend[s] to use for waste dumps before [BLM] approve[s] the use of that land for that purpose" *Bartell Ranch*, 2023 U.S. Dist. LEXIS 19280, at *15. By "rights," the Nevada District Court appears to have referred to what it characterized as the requirement—set forth in the Mining Law of 1872 at 30 U.S.C. 22—of a "discovery of a valuable mineral deposit for a mining project proponent . . . before that proponent may permanently occupy any land." *Id.* at *13.

The Nevada District Court supplied several further guidelines for BLM's "evaluation." Most notably, the Court distinguished the Thacker Pass Project from the project at issue in *Rosemont*. In *Rosemont*, there was not only "'no evidence that valuable minerals ha[d] been found on Rosemont's mining claims'" covering the waste dump land, *id.* at *16 (citing *Rosemont*, 33 F.4th at 1222)), but also "[u]ndisputed evidence in the administrative record *show[ing]* that no valuable minerals ha[d] been found on the mining claims . . . ." *Rosemont*, 33 F.4th at 1212 (emphasis added). Conversely, the record before the District Court in *Bartell Ranch* demonstrated potentially valuable "lithium mineralization throughout the Project area, including the area slated for burial under waste rock and mine tailings." *Bartell Ranch* 2023 U.S. Dist. LEXIS 19280, at *16. Thus, the District Court concluded that BLM, on remand, need only conduct an "analysis" of the record to determine whether, on the record before the agency, "Lithium Nevada has discovered valuable minerals." *Id.* at 17.

In undertaking this analysis, BLM is mindful that *Rosemont*—the decision that the Nevada District Court repeatedly described as binding—does not require that BLM conduct a "validity determination," i.e., an independent determination of the validity of the mining claims based on an on-the-ground field examination by licensed agency mineral examiners. 33 F.4th at 1222.

Indeed, the *Rosemont* court noted that such determinations were "irrelevant" for the analysis there. *Id.* Instead, the question before BLM now is whether, on the evidence before it, BLM may reasonably conclude that Lithium Nevada has discovered valuable minerals.[1] *See* Solicitor's Opinion M- 37077, Use of Mining Claims for Mine Waste Deposition, and Rescission of M-37057 and M-37012, (May 16, 2023). That inquiry is not tantamount to a formal mining claim validity determination.

BLM has reviewed the available scientific literature for the Thacker Pass region and drill hole data provided by Lithium Nevada Corporation, specifically with regard to the lands on which the West waste rock storage facility (WRSF), East WRSF, and Clay Tailing Filter Stack (CTFS) would be placed.

BLM used three drill holes that directly intersect the West WRSF to evaluate the potential lithium mineralization at that location. Geologic inference would suggest that elevated lithium mineralization exists within the caldera lake sediments in the West WRSF location. There is a known ridge of volcanic tuff that affects up to four lode mining claims where elevated concentrations of lithium have not yet been found. All other lode mining claims associated with the West WRSF are expected to have lithium mineralization above the cutoff grade.

Six drill holes surrounding the CTFS indicate that elevated lithium mineralization is present throughout the facility. Geologic logs document a unit of basalt and other volcanics along the western edge of the CTFS, but that unit thins out or disappears to the east. The lithium mineralization is stratigraphically deeper below the CTFS than the proposed open pit, but concentrations below the CTFS consistently exceed 1,000 ppm. Geologic inference suggests that high concentrations of lithium mineralization exist at this location.

BLM used seven drill holes in proximity to the East WRSF to evaluate the potential lithium mineralization at that location. High concentrations of lithium mineralization were clearly identified in two drill holes and evidence of lithium mineralization was documented in three others. Two shallow drill holes did not encounter lithium, and as a result, four mining claims

[1] The District Court remanded "this case" to BLM "without vacatur of the Record Decision" for BLM to analyze the potential discovery of valuable minerals. *Bartell Ranch* 2023 U.S. Dist. LEXIS 19280, at *77-78. In so doing, the Court directed BLM to analyze the potential "to support" BLM's prior decision to approve the Plan of Operations. *Id.* Likewise, the Court affirmed BLM's analyses under the National Environmental Policy Act ("NEPA") and National Historic Preservation Act ("NHPA"). *Id.* at *2-3. BLM thus need not reopen nor revisit any analysis under NEPA or the NHPA, The NEPA and NHPA analyses of project impacts are independent of this description of Project geology: that geology would exist, as described herein, with or without the Project. And by upholding BLM's prior analysis under NEPA and NHPA, declining to vacate BLM's Record of Decision, and limiting the scope of this remand, the District Court indicated that it did not expect or require BLM to revisit the entire decision from scratch, as would be the case if the District Court had vacated the Record of Decision. Finally, and as noted more fully below, BLM's existing NEPA and NHPA analyses encompass the effects of the plan of operations even after the minor modifications by this decision.

along the north edge of the East WRSF do not yet contain sufficient evidence of mineralization. Based on geologic inference, it is likely additional lithium mineralization exists below the East WRSF, similar to the CTFS, and could be confirmed with additional drilling.

Based on an independent literature search and the available information supplied by Lithium Nevada Corporation, BLM concludes that the lode mining claims located on the extent of the CTFS, all but four of the lode mining claims (Neutron 557, Neutron 580, BPE 504, and BPE 505) located on the extent of the West WRSF, and all but four of the lode mining claims (Neutron 609, Neutron 611, Neutron 612, and Neutron 615) located on the extent of the East WRSF likely contain elevated concentrations of a mineral commodity locatable under the Mining Law of 1872 (the Mining Law). In other words, the evidence before BLM supports a reasonable conclusion that there are valuable mineral deposits underlying these mining claims. Eight mining claims associated with these facilities do not yet have evidence of a locatable mineral deposit as of the date of the attached report.

The absence of evidence of mineralization for the eight remaining claims, totaling perhaps 45 acres of the West WRSF and 35 acres of the East WRSF, does not disturb BLM's prior approval of the mine plan of operations, even though—absent further action described below—Lithium Nevada may not use those claims as part of its storage facilities. Work Plan #1, submitted by Lithium Nevada on February 14, 2023, does not propose to initiate construction on the East WRSF or on approximately the north half of the CTFS in the immediate future. Accordingly, Lithium Nevada could, for example, use other lands to store mined material that would otherwise be placed on the four mining claims at the West WRSF, and in fact, the plan of operations describes using mined materials "as construction material for haul roads and the CTFS" (Lithium Nevada Corporation, 2020).

Lithium Nevada may also use other components of the mine for waste, such as the pit itself: the plan of operations states that mined material "will be directly backfilled when possible" (Lithium Nevada Corporation, 2020), the EIS and ROD for the project explicitly describe concurrent backfill of the open pit, and Figure 9 of the plan of operations shows sufficient capacity for additional storage within the pit backfill (Lithium Nevada Corporation, 2020). Alternatively, Lithium Nevada may, for example, seek to re-locate the mining claims at the West WRSF where BLM has found no evidence of mineralization at the time of this analysis, if those lands are non-mineral in character.

We further note that it will likely be some time before Lithium Nevada would use the affected acreage of the West WRSF, if at all: because development of the facility will likely begin at its southern terminus (i.e., where the elevation is lowest) and progress north, there is ample time for Lithium Nevada to assess the required configuration of the West WRSF and propose any appropriate action.

The plan of operations also includes an additional 150 acres of exploration-related disturbance within the Project area, and, although the evidence before BLM does not now show that locatable minerals have been found on eight claims at the West and East WRSFs, such minerals could be yet found through additional drilling prior to deposit of any waste rock.

In any other instance where Lithium Nevada proposes rock storage facilities other than those evaluated under the previously approved plan of operations, Lithium Nevada would be required to submit an amended plan of operations for appropriate analysis under NEPA and other applicable law.

If you have any questions, please contact Sam Burton, District Manager, Winnemucca District Office at 775-623-1501.

Attachment: Report

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Serial Number
NVN098586

THACKER PASS PROJECT
PLAN OF OPERATIONS AND
RECLAMATION PERMIT

Report

LANDS INVOLVED
Mount Diablo Baseline & Meridian

T44N, R34E, sections 1 and 12.
T44N, R35E, sections 2-17.
T44N, R36E, sections 7, 8, 14-23, and 29.
Humboldt County, Nevada

16 May 2023
(Date)

Prepared By:

DANIEL ATKINSON
Digitally signed by DANIEL ATKINSON
Date: 2023.05.15 22:55:49 -07'00'

Daniel Atkinson, Geologist/Mining Engineer
in coordination with Ken Loda, Geologist
Bureau of Land Management

Management Acknowledgement:

SAMUEL BURTON
Digitally signed by SAMUEL BURTON
Date: 2023.05.16 00:08:59 -07'00'

Samuel R.M. Burton Date
District Manager, Winnemucca District
Bureau of Land Management

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List of Appendices

I. SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

A. SUMMARY

On August 5, 2019, Lithium Nevada Corporation submitted the Thacker Pass Project Plan of Operations (Project) to the Bureau of Land Management, Humboldt River Field Office for review. The Thacker Pass Project is located in northern Humboldt County, Nevada, approximately 20 miles west-northwest of Orovada, Nevada, and approximately 20 miles south of the Oregon border. The Project proposes to disturb approximately 5,695 acres to develop an open pit lithium mine and processing plant with a life expectancy of 41 years.

This report incorporates certain data that postdates the initial record of decision, including a 2023 Feasibility Study and Market Overview, and new drilling data, specifically analytical results for 374 drillholes. Drilling was completed by Lithium Nevada Corporation and their predecessor from 2007 to 2011 and 2017 to 2018, but there was no reason to provide the results to BLM prior to *Rosemont* and the District Court ruling.

The Thacker Pass Project is located on the southern end of the McDermitt Caldera, a keyhole-shaped depression approximately ~30 x 45 km that formed after a series of volcanic eruptions approximately 16.33 million years ago. Following these eruptions, a large lake formed in the caldera basin, similar to present day Crater Lake in Oregon. Over time, sediments that were eroded from the surrounding areas were deposited inside the caldera basin, concentrating dissolved lithium. Volcanic resurgence introduced hydrothermal fluids into the lake sediments that deposited additional lithium and further concentrated the resource.

Since 2007, Lithium Nevada Corporation and their predecessor have completed over 370 drill holes to evaluate the lithium resource. Over 19,000 samples have been analyzed from those drill holes, allowing Lithium Nevada Corporation to develop an extensive geologic block model for the site. The block model is used to evaluate the resource and determine the best location for project-related facilities, including the open pit and associated processing facilities. The block model is also used to iteratively determine the cutoff grade. In their 2023 Feasibility Study, National Instrument 43-101 Technical Report for the Thacker Pass Project, Humboldt County, Nevada, USA, (Feasibility Study) Lithium Americas Corporation established a cutoff grade of 1,047 parts per million (ppm) lithium (2023).

B. CONCLUSIONS

BLM has reviewed the available scientific literature for the Thacker Pass region and drill hole data provided by Lithium Nevada Corporation, specifically with regard to the lands on which the West waste rock storage facility (WRSF), East WRSF, and Clay Tailing Filter Stack (CTFS) would be placed.

BLM used three drill holes that directly intersect the West WRSF to evaluate the potential lithium mineralization at that location. Geologic inference would suggest that elevated lithium mineralization exists within the caldera lake sediments in the West WRSF location. There is a known ridge of volcanic tuff that affects up to four lode mining claims where elevated concentrations of lithium have not yet been found. All other lode mining claims associated with the West WRSF are expected to have lithium mineralization above the cutoff grade.

Six drill holes surrounding the CTFS indicate that elevated lithium mineralization is present throughout the facility. Geologic logs document a unit of basalt and other volcanics along the western edge of the CTFS, but that unit thins out or disappears to the east. The lithium mineralization is stratigraphically deeper below the CTFS than the proposed open pit, but concentrations below the CTFS consistently exceed 1,000 ppm. Geologic inference suggests that high concentrations of lithium mineralization exist at this location.

BLM used seven drill holes in proximity to the East WRSF to evaluate the potential lithium mineralization at that location. High concentrations of lithium mineralization were clearly identified in two drill holes and evidence of lithium mineralization was documented in three others. Two shallow drill holes did not encounter lithium, and as a result, four mining claims along the north edge of the East WRSF do not yet contain sufficient evidence of mineralization. Based on geologic inference, it is likely additional lithium mineralization exists below the East WRSF, similar to the CTFS, and could be confirmed with additional drilling.

The basin that resulted from a collapsed caldera created the ideal depositional environment for lithium. The sediments that filled the lake and resultant clays have shown elevated lithium concentrations at a broad scale, and scientific literature in the record have described thousands of acres within the McDermitt Caldera as "known or probable area[s] of lithium mineralization," including Thacker Pass. As expected, the open pit area targets the lithium resource that is closest to the surface and provides the best cost:benefit ratio, but additional lithium mineralization clearly exists outside the pit area.

Based upon an independent literature search and the available information supplied by Lithium Nevada Corporation, BLM concludes that the lode mining claims located on the extent of the CTFS, all but four of the lode mining claims (Neutron 557, Neutron 580, BPE 504, and BPE 505) located on the extent of the West WRSF, and all but four of the lode mining claims (Neutron 609, Neutron 611, Neutron 612, and Neutron 615) located on the extent of the East WRSF likely contain elevated concentrations of a mineral commodity locatable under the Mining Law of 1872 (the Mining Law). Eight mining claims associated with these facilities do not yet have evidence of a locatable mineral deposit as of the date of this report.

II. INTRODUCTION

A. PURPOSE AND SCOPE

This report documents the evidence available to the BLM that valuable minerals exist on certain federal lands associated with the Thacker Pass Project (NVN098586) authorized under the Surface Management regulations at 43 Code of Federal Regulation, subpart 3809.

This report presents a professional opinion on the presence of valuable minerals on the subject lands. The conclusions of the report are limited to that determination and should not be used for any other purpose.

B. INTRODUCTION

On August 5, 2019, Lithium Nevada Corporation (LNC) submitted the Thacker Pass Project Plan of Operations and Reclamation Permit to the BLM, Humboldt River Field Office (HRFO) for review and potential approval of the Project in accordance with BLM Surface Management Regulations under 43 CFR Part 3809. The eventual approved plan (Lithium Nevada Corporation, 2020) was slightly modified from that initial submission, but the Project facilities were not changed. The total plan of operations boundary would include approximately 10,468 acres and the Project proposes to disturb approximately 5,695 acres. The surface and subsurface mineral estates associated with the Project are located on public lands administered by the BLM HRFO; no state or private lands are included in the Project area. The Project would be an open pit mine with a life expectancy of approximately 41 years. Closure and reclamation of the Project is anticipated to require another five years. The Project would be developed in two phases over the estimated life-of-mine.

The Record of Decision (ROD) for the Thacker Pass Lithium Mine Project Final Environmental Impact Statement (EIS) and plan of operations approval were signed by BLM on January 15, 2021. On February 11 and 26, 2021, plaintiffs (Bartell Ranch, LLC and Edward Bartell (February 11, 2021) and Western Watersheds Project, Great Basin Resource Watch, Basin and Range Watch, and Wildlands Defense (February 26, 2021)) filed complaints challenging that approval with the United States District Court for the District of Nevada. Lithium Nevada Corporation intervened as a defendant and, in July 2021, two federally recognized Indian Tribes (the Reno-Sparks Indian Colony and the Burns Paiute Tribe) and a tribal organization (the People of the Red Mountain) intervened as plaintiffs. Oral arguments on all parties' cross-motions for summary judgment in the consolidated cases were heard on January 5, 2023. On February 6, 2023, the Court rejected all of Plaintiffs' and Intervenor-Plaintiffs' claims—including their claims under the National Environmental Policy Act and the National Historic Preservation Act—except for the claim under *Rosemont*, set forth above.

III. LAND STATUS AND RECORD DATA

A. LANDS INVOLVED

The Thacker Pass Project is located in northern Humboldt County, Nevada, approximately 20 miles west-northwest of Orovada, 52 air miles north-northwest of Winnemucca, and approximately 20 miles south of the Oregon border (Figure 1). Within the Project boundary LNC owns 492 lode mining claims which are located on the following land:

Mount Diablo Meridian, Nevada
T44N, R34E,
secs. 1 and 12.
T44N, R35E,
secs. 2 thru 17.
T44N, R36E,
secs. 7 and 8, 14 thru 23, and 29.

The subject claims are located on public lands administered by the United States Department of the Interior, BLM HRFO. All lode mining claims are approximately 600 feet wide and 1500 feet long and are roughly 20.66 acres. LNC also has 27 mill sites located in:

Mount Diablo Meridian, Nevada
T44N, R35E,
secs. 7 thru 9, 16, and 17.
T44N, R36E,
secs. 15, and 22.

The location of all lode mining claims and mill sites are provided in Figure 2.

The summary judgment order issued by Judge Du was explicitly limited to approximately 1,300 acres associated with the West WRSF, East WRSF, and the CTFS. This report focuses on the 107 lode mining claims associated with those facilities, and they will be referred to as the "subject claims" throughout this report. Appendix A provides a complete list of the subject claims. Figure 3 shows the location of the subject claims and Appendix B provides additional details for the location of each claim.

B. LAND STATUS

Land status records maintained by the BLM indicate that the lands including and surrounding the subject claims are public lands open to location under the Mining Law.

The LR2000 land record database and the Master Title Plat maintained by the BLM indicate that two land actions may conflict with the subject claims (Figures 4 and 5 – Master Title

Plats, T44N, R34E, and T44N, R35E, MDBM). The Nevada Department of Transportation has a right-of-way for State Route (SR) 293 (NVN002773), which includes a collocated underground fiber optic line (NVN060463). The permitted width of these facilities may overlap with three lode mining claims on the south end of the West WRSF (Beta 38, Neutron 583, and Neutron 563). All facilities associated with the Thacker Pass Mine Project would be located outside of the permitted rights-of-way as described in the EIS. There are also two mine plans and two notices under 43 CR 3809 existing on the Project site in which LNC is the operator. Those operations will be consolidated into the Project and closed at the appropriate time.

Within one mile of the subject claims, Harney Electric Cooperative maintains a right-of-way for low-voltage overhead power that runs along the southern edge of the Project Area (NVN095618).

Figure 1-Location Map adapted from EIS. This report only considers the Proposed Mine PoO Boundary and does not include Exploration PoO.

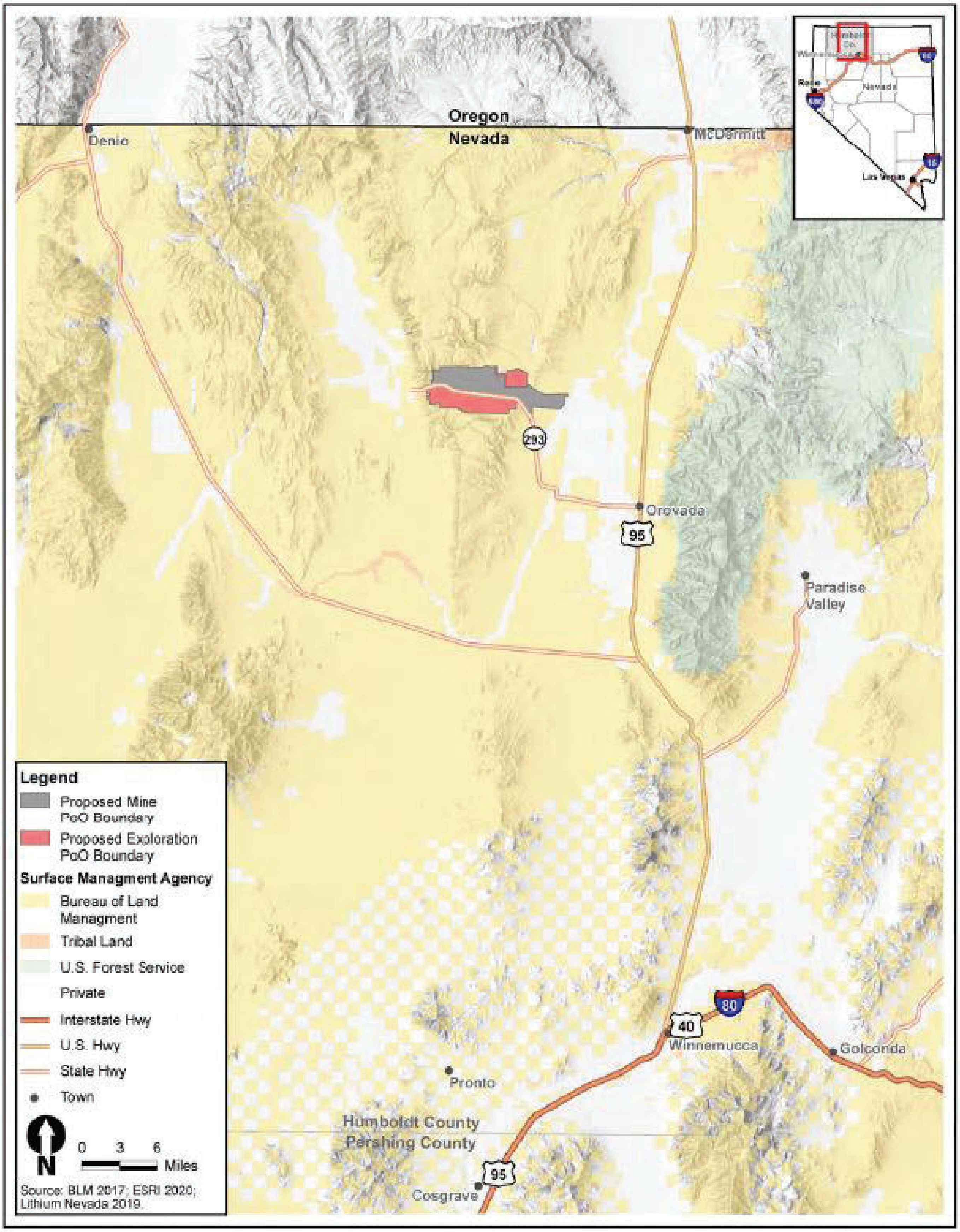


Figure 2-Active mining claims associated with the Project, adapted from the Plan of Operations.

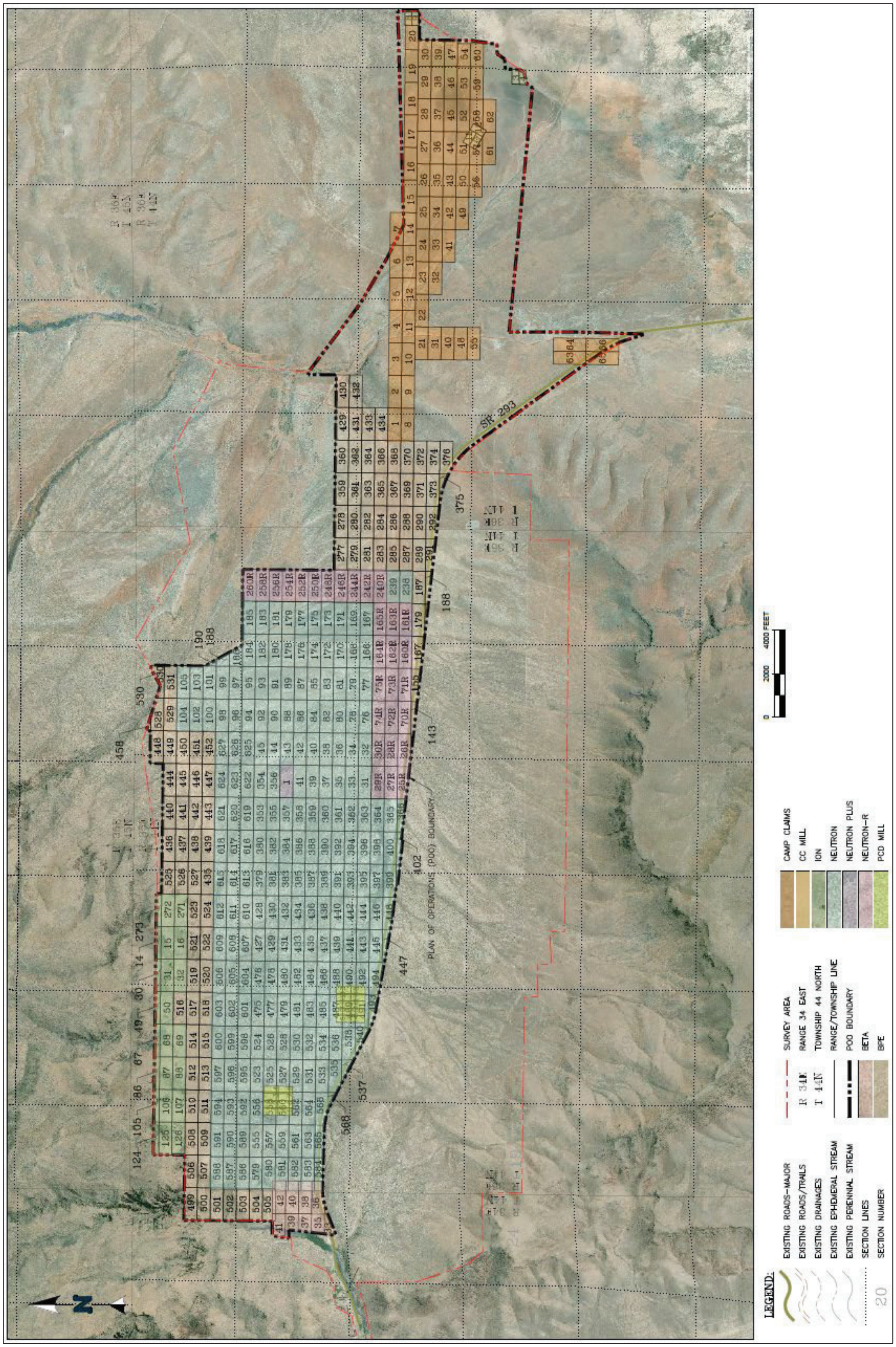


Figure 3-Subject Claims

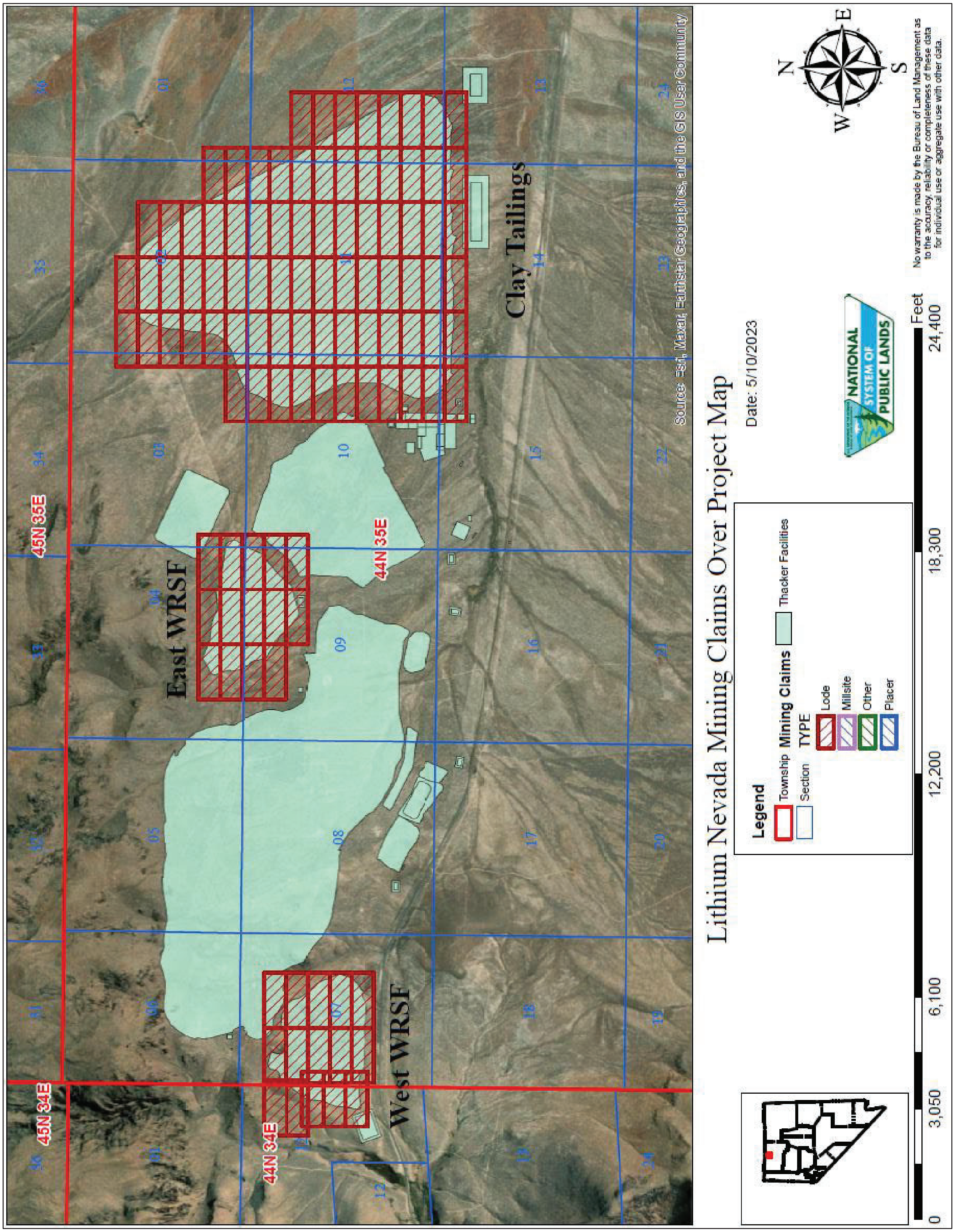


Figure 4-Master Title Plat for Township 44 North, Range 34 East.

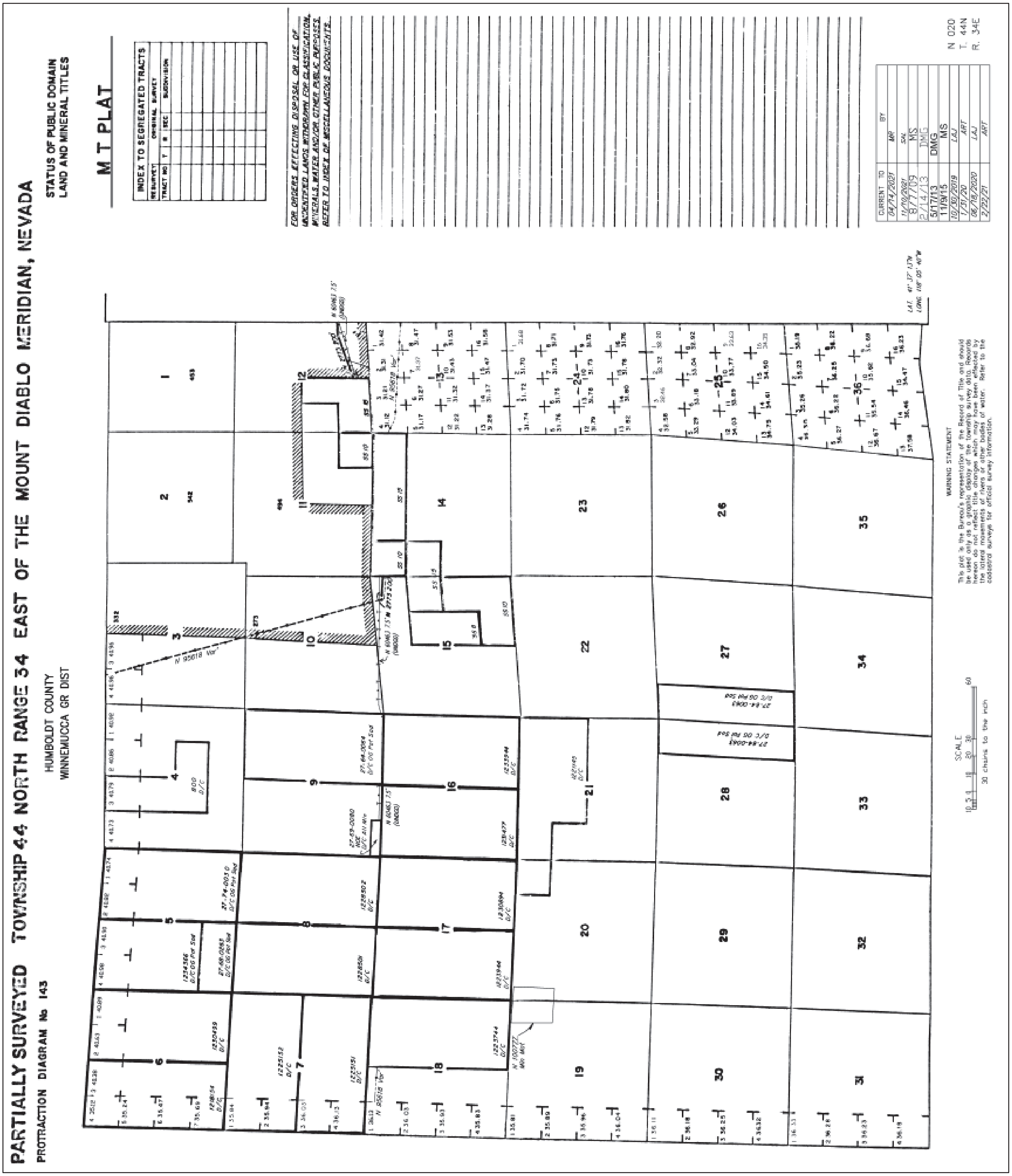
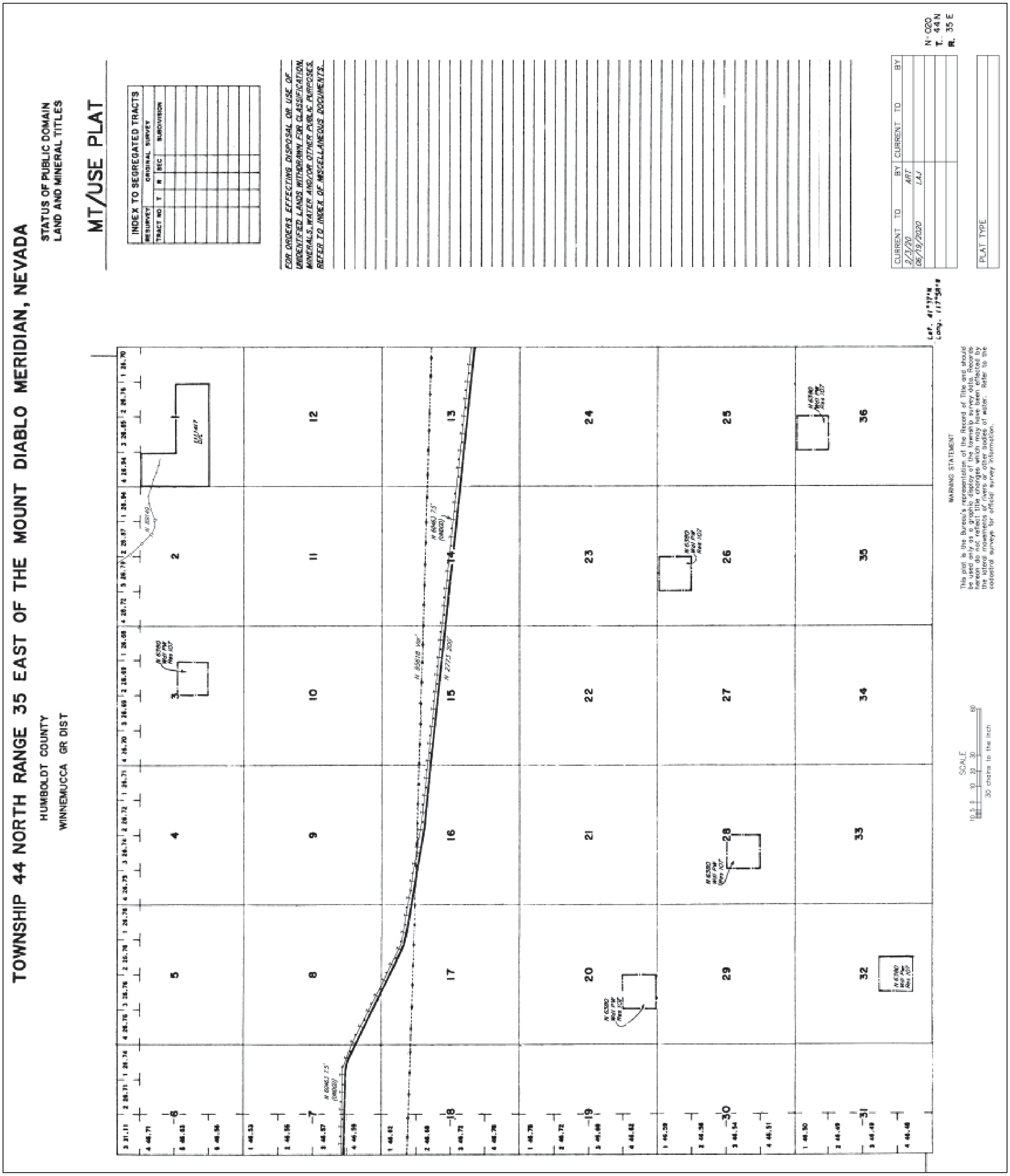


Figure 5-Master Title Plat for Township 44 North, Range 35 East.



C. PHYSIOGRAPHIC DATA

Location and Access

The Project area is located approximately 64 road miles north-northwest of Winnemucca, Nevada, adjacent to SR 293. To access the site from downtown Winnemucca, travel north on US Highway 95 for approximately 43 miles to the community of Orovada, NV. Turn west onto SR 293 and continue for approximately 21 miles until you arrive at the Project on the north side of SR 293 (Figure 1).

Terrain

The Project area is located within an extinct super-volcano named the McDermitt Caldera, which was formed approximately 16.3 million years ago (Ma)(Advisian, 2018). The Project is situated between Kings River Valley to the west, the Quinn River Valley to the east, the Montana Mountains to the north, and the Double H Mountains to the south in a rolling and generally gently-sloping area known as Thacker Pass. The Project area is approximately 4,200 to 5,650 feet above mean sea level (amsl), and the subject claims are at elevations from 4600 to 5200 feet amsl.

IV. GEOLOGIC SETTING

A. REGIONAL GEOLOGY

The geologic history of Northern Nevada is marked by a complex record of Paleozoic and Mesozoic accretionary and sedimentary events followed by periods of intrusive and extrusive volcanism and additional sedimentation. During the Cenozoic and Tertiary eras, crustal extension created the horst and graben features of the Basin and Range Province contemporaneous with additional volcanism. This section is based largely on Wilden (1964) and Stewart (1980).

The earliest rocks date to the Precambrian to early Paleozoic era when Nevada was covered by a shallow sea. During this period, approximately 40,000 feet of marine sediments ranging from near shore (eastward direction) to deep ocean (westward direction) along with basic volcanics were deposited in an accretionary offshore basin extending north to south along western North America.

These early sedimentary and volcanic rocks were folded and faulted in the Late Devonian to Early Mississippian-aged Antler orogeny which thrust distal offshore marine sediments and volcanic rocks (the eugeosynclinal (deep water) portion of the Cordilleran Geosyncline) eastward over more marginal marine clastic. Deposition of marine sediments and volcanism continued after this event until the Mid to Late Permian to Early Triassic-aged Sonoma orogeny. The Sonoma orogeny was also a thrust event that placed distal offshore marine sediments and volcanics eastward over more marginal marine clastic rocks. After the orogeny, the area was downwarped with sedimentary deposition during the Triassic and early Jurassic era consisting dominantly of fine-grained sediments representing distal delta deposits derived from the continent, and carbonates as opposed to deeper marine sediments. The Jurassic Nevada/Sevier orogeny regionally metamorphosed, folded, and faulted these sediments. Associated volcanism during this orogeny was predominantly mafic culminating in emplacement of plutonic granitic rocks in Cretaceous time (Silberling and Roberts, 1962).

During the late Cretaceous, the area was uplifted and subjected to erosion and continental deposition. Following deposition, rifting (extensional faulting) began along the Orevada Rift which sporadically emplaced volcanic and plutonic rocks ranging from rhyolitic tuffs to basalts (Rytuba and McKee, 1984). Creation of the Basin and Range Province began shortly after this time. Normal faulting resulted from the extensional regime and is typified by horst and graben topography. The north-south trending mountain ranges (horst blocks) are separated by broad sediment filled down dropped (graben) valleys.

During the Tertiary period on-going Basin and Range tectonism occurred throughout the region. The McDermitt volcanic field, the initiation of which is dated at about 16.5 Ma (mid-Miocene), is among the first continental expressions of the Yellowstone hot spot. The McDermitt Caldera is the largest feature of that field. Regionally this volcanic activity persisted until about 12 Ma, though a few a basalt units in the area have been dated to about 5 Ma. Additional details regarding development of the McDermitt Caldera are provided in Section VI.

During Quaternary time, Basin and Range tectonism has persisted, though at a much-reduced rate, and valleys continue to fill with sediments shed from surrounding mountain ranges. Rocks affected by early Tertiary tectonic activity continue to be deformed with ongoing seismic activity. Alluvial fans consist of gravel and cobbles near the highlands and grade downward into sand, silt, and clay in the valley bottoms.

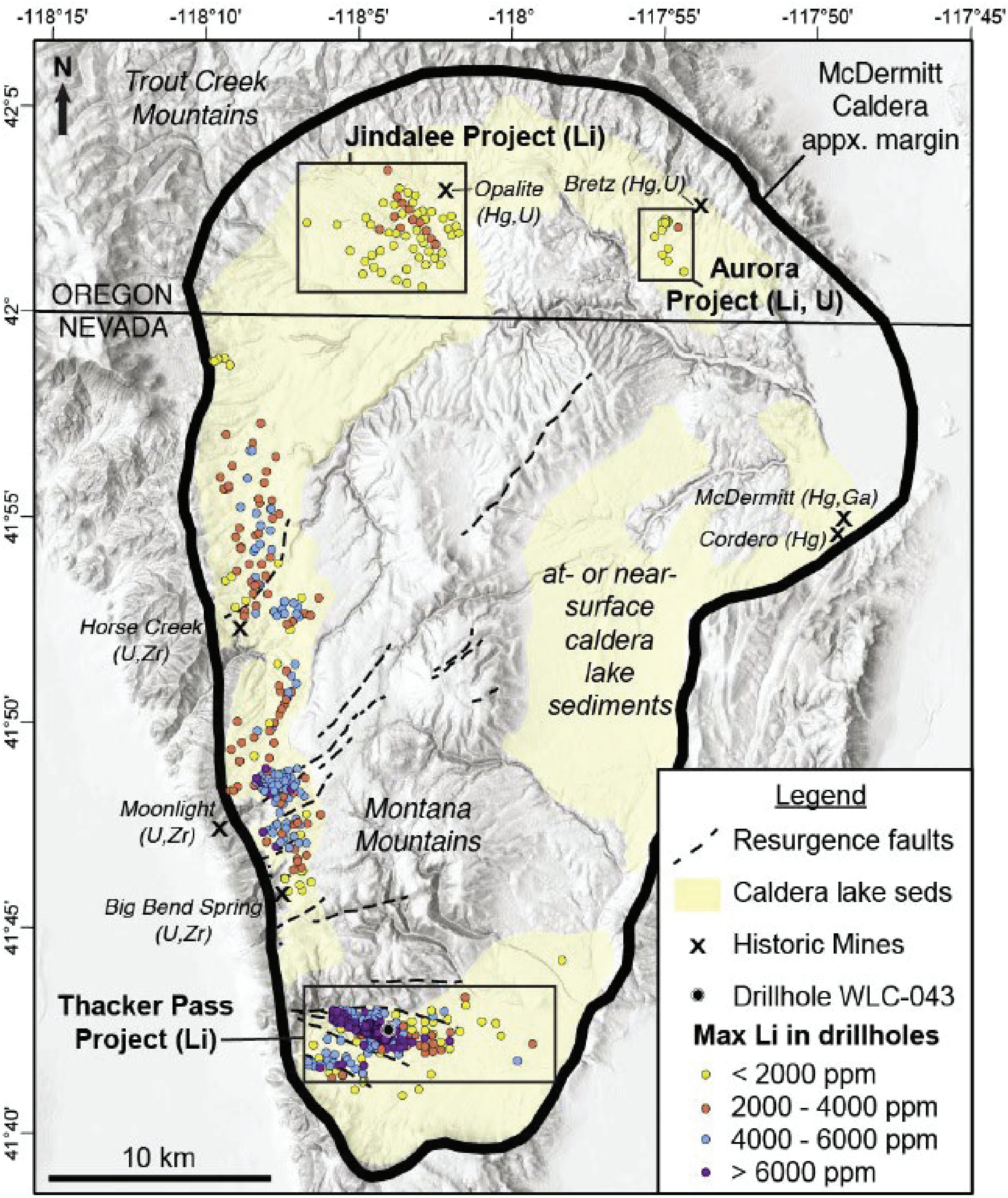
B. SITE GEOLOGY

Local Area Geology

This account is based largely on the documents submitted by LNC, including contents of Appendix G of the Thacker Pass Lithium Mine Project EIS, and conversations with Randal Burns (LNC geologist) and Dr. Thomas Benson (Lithium Americas Corp., Vice President-Global Exploration).

The Thacker Pass Project is located within the McDermitt Volcanic Field (Figure 6), a volcanic complex containing four large calderas (or "supervolcanoes") that formed in the middle Miocene. Volcanic activity in the McDermitt Volcanic Field was contemporaneous with voluminous effusion of the earliest stages of the ~16.6 – 15 Ma Columbia River flood basalt lavas of Oregon, Nevada, Idaho, and Washington associated with impingement of the Yellowstone plume head (Coble and Mahood, 2012; Benson et al., 2017). Plume head expansion underneath the lithosphere resulted in crustal melting and surficial volcanism along four distinct radial swarms (Benson et al., 2017). The McDermitt Volcanic Field is located within the southeastern-propagating swarm of volcanism from Steens Mountain into north-central Nevada. The Thacker Pass Project is located within the largest and southeasternmost caldera of the McDermitt Volcanic Field, the McDermitt Caldera.

Figure 6-Simplified McDermitt Caldera from unpublished Benson, Coble and Dilles report.

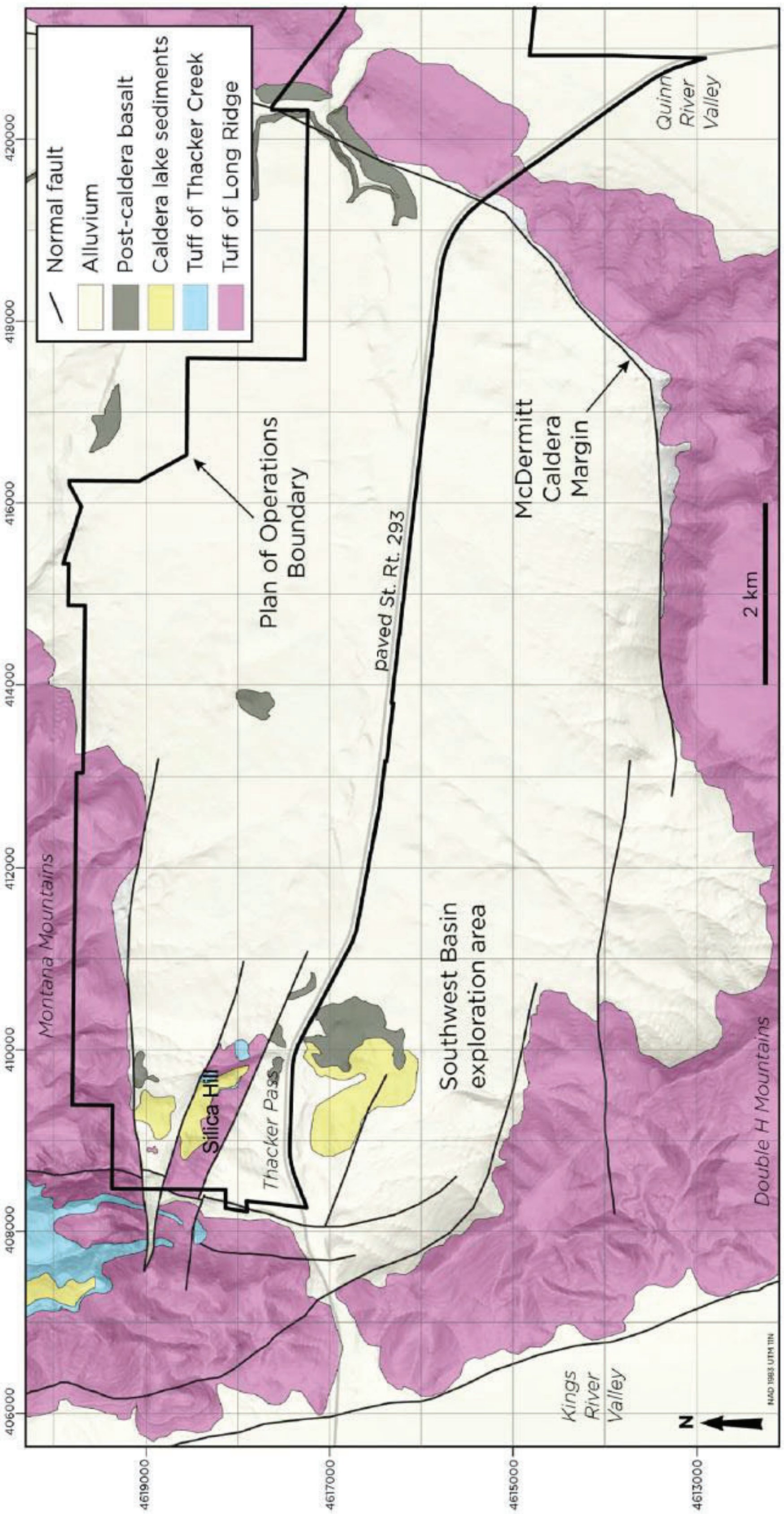


The ~30 x 45 km keyhole-shaped McDermitt Caldera formed on eruption of the trachytic to rhyolitic Tuff of Long Ridge at ~16.33 Ma. Rytuba and McKee (1984) and Conrad (1984) initially interpreted the McDermitt Caldera as a composite collapse structure formed on piecewise eruption of four different ignimbrites from a single magma chamber. Recently, Henry et al. (2017) refined the stratigraphy to a singular ignimbrite they call the McDermitt Tuff (herein called the Tuff of Long Ridge to avoid confusion). Regional reconnaissance work by Benson et al. (2017) indicates that there was one large laterally-extensive and crystal-poor (<3 % feldspar) caldera-forming eruption (Tuff of Long Ridge), though other smaller-volume tuffs are exposed close to the vent and their eruptions and concomitant collapses may have contributed to the peculiar shape of the caldera. An estimated ~500 km3 of ignimbrite ponded within the caldera during the eruption, with ~500 km3 spreading out across the horizon up to 60 km from the caldera (Benson et al., 2017).

Prior to collapse of the McDermitt Caldera at 16.33 Ma, volcanism in the northern portion of the McDermitt Volcanic Field and locally small volumes of lavas erupted near the present-day Oregon-Nevada border. These lavas and the flood basalts are exposed along walls of the McDermitt Caldera and are ~16.5 Ma to ~16.3 Ma (Benson et al., 2017; Henry et al., 2017). One of these lavas is a metaluminous biotite-bearing rhyolite lava just west of the caldera that is the host for uranium mineralization of the Moonlight Mine.

Following eruption of the Tuff of Long Ridge, the newly-identified crystal-rich (~15% feldspar and quartz) Tuff of Thacker Creek erupted along the western ring fracture zone of the McDermitt Caldera (Figure 7). The vents for this relatively small eruption are spectacularly exposed along Thacker Creek, where two approximately 20-meter-wide tuff dikes crosscut the intracaldera facies of the Tuff of Long Ridge. From this vent area, the Tuff of Thacker Creek mostly flowed north atop intracaldera Tuff of Long Ridge, though a small volume flowed south into the caldera basin. The magmatic resurgence associated with this eruption resulted in a series of small (~50 m maximum offset) normal faults radiating out from the vent area.

Figure 7-Simplified geologic map of the project area adopted from the Plan of Operations.



Following these eruptions, a large lake formed in the caldera basin. Associated caldera lake sediments that host the Thacker Pass deposit were deposited on top of the horsts and grabens formed during the faulting associated with the Tuff of Thacker Creek. The lake captured sediments that were eroded from the surrounding drainage areas. Though no ash layers have been dated within the associated lacustrine sediments, it is estimated that sedimentation was active for ~100,000 years given that nearby Miocene caldera lakes lasted approximately this long (Coble and Mahood, 2012; Benson et al., 2017).

Contemporaneous with caldera lake sedimentation, minor-volume icelanditic, rhyolitic, and basaltic lavas erupted from small vents throughout the McDermitt caldera (Henry et al., 2017). Thin basaltic lava flows are intercalated with caldera lake sediments in drill cores and show evidence for interaction with wet sediments, suggesting that caldera lake sedimentation occurred for the duration of post-caldera volcanism.

Geology of the Subject Claims

Henry et al. published the *Geology and Evolution of the McDermitt Caldera, northern Nevada and southeastern Oregon, western USA* in 2017. This description and Figure 8 are adapted from Henry et al., *Geologic Map of the McDermitt Caldera, Humboldt County, Nevada and Harney and Malheur Counties, Oregon* (2017).

The oldest geologic unit in the Project area and adjacent to the subject mining claims is the Tertiary-aged McDermitt Tuff (Tmt), identified as peralkaline, aphyric, high-silica rhyolite (comendite) to metaluminous, abundantly anorthoclase-phyric, trachydacite, or iron-rich andesite (icelandite) and dated 16.36 Ma (Henry et al., 2017). Intracaldera sedimentary deposits (Tis) formed as lacustrine moat sediments after deposition of the McDermitt Tuff and before the late basaltic lava flows (Tbl), described as a high-alumina olivine theoleiite (Henry et al., 2017). The subject claims are dominated by the intracaldera moat sediments and older alluvial fan deposits (Qfo) at the surface. Minor exposures of Quaternary colluvium/talus (Qct) and younger alluvial fans (Qay) are also exposed near the subject claims. The mineralization associated with the subject claims is described in Section VIII.

Figure 8-Geologic map adapted from Henry et al. 2017.

GEOLOGIC MAP OF THE MCDERMITT CALDERA, HUMBOLDT COUNTY, NEVADA AND HARNEY AND MALHEUR COUNTIES, OREGON

Christopher D. Henry[1], Stephen B. Castor[1], William A. Starkel[2], Ben S. Ellis[3], John A. Wolff[2], Joseph A. Laravie[4], William C. McIntosh[5], and Matthew T. Heizler[5]

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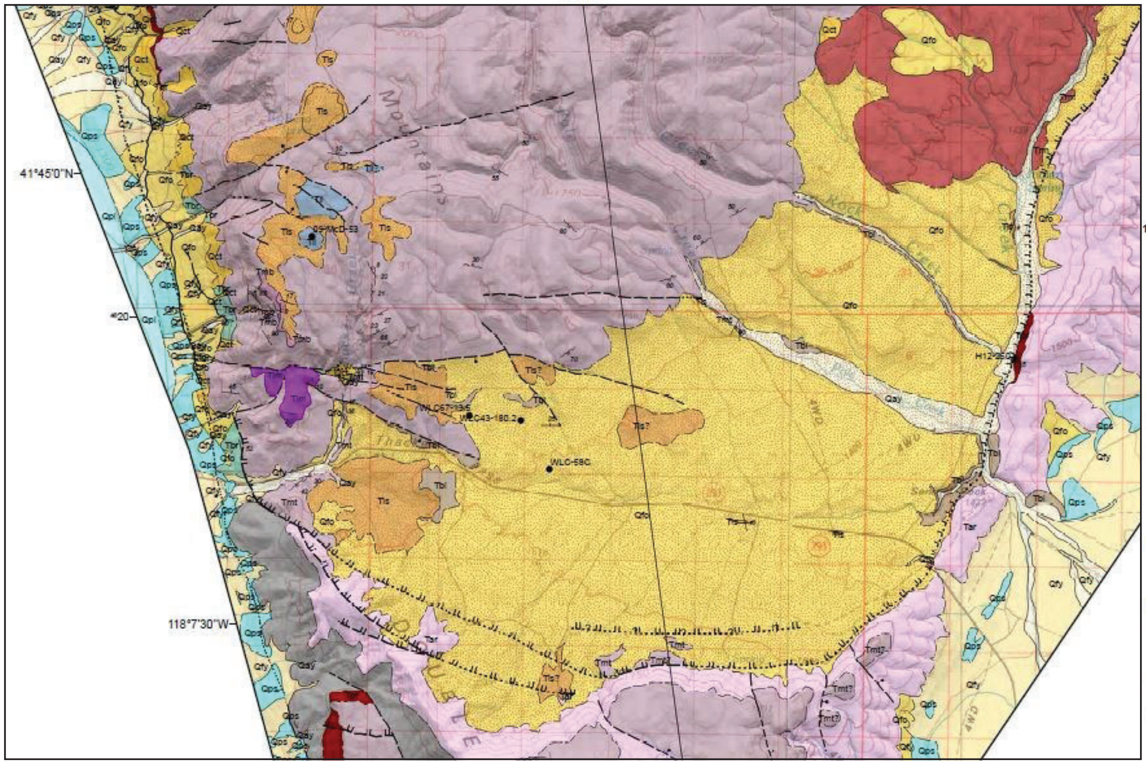
[3]Institute of Geochemistry and Petrology, ETH Zurich, Switzerland
[4]Great Basin GIS, Spring Creek, NV
[5]New Mexico Bureau of Geology and Mineral Resources, New Mexico Tech

2017



GN MN
1° 00' 18° 00'
UTM GRID AND
1983 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Scale 1:70,000

0 1 2 3 4 kilometers
0 0.5 1 2 3 miles
0 5,000 10,000 15,000 feet

CONTOUR INTERVAL 50 METERS

Qm - Mine dumps
Qay - Younger alluvium
Qfp - Flood plain deposits
Qfy - Younger alluvial fan deposits
Qpl - Pluvial lake bottom deposits
Qps - Pluvial lake shoreline deposits
Qls - Landslide deposits
Qct - Colluvium and Talus
Qfo - Older alluvial fan deposits

14.9 Tbl — Late basaltic lavas (high-alumina olivine tholeiite)

Tis — Intracaldera sedimentary deposits (moat sediments)

16.12, 16.40 Tiv, Til, Tia — Late icelandite vent complex and lavas
Tiv - Vent complex
Til - Lavas
Tia - Aurora lavas

16.41 Trm - Rhyolite of McDermitt Creek (possibly part of McDermitt Tuff)
Tlm - Late mesobreccia

16.36 Tmt - McDermitt Tuff
Tmtu - Late intracaldera tuff
Tmb - Megabreccia blocks and mesobreccia
Tmv - Vitrophyric tuff dikes

Known or probable area of lithium mineralzation

16.40 Tar — Peralkaline rhyolite lava

Contact Solid where certain and location accurate, long-dashed where approximate, short-dashed where inferred, dotted where concealed; queried if identity or existence uncertain.

Internal contact Solid where certain and location accurate.

Gradational contact Dashed where approximately located. Indicates seperation of detailed mapping from areas of reconnaisance mapping.

Fault Solid where certain and location accurate, dashed where approximate, dotted where concealed; queried if identity or existence uncertain.

Normal fault Solid where certain and location accurate, dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side.

Caldera margin Solid where certain and location accurate, dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Ticks on downthrown side.

Strike and dip of bedding
41 Inclined

Strike and dip of compaction foliation in ash-flow tuff
47 Inclined

Strike and dip of compaction foliation in ash-flow tuff that underwent secondary flow
56 Inclined

Strike and dip of flow banding or flow foliation in volcanic rocks
33 Inclined

Sample locality
H04-40

Line of cross section
A —— A'

Nevada Bureau of Mines and Geology
Mackay School of Earth Sciences and Engineering
College of Science
University of Nevada, Reno

Field work completed in 2015
Supported by the Nevada Division of Minerals and the U.S. Department of Energy, Yucca Mountain Project Office, Las Vegas, NV, contract 1950125-03.

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Second Edition, April 2017

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V. PRODUCTION HISTORY

The Project is not within the boundaries of a formally described district (Tingley, 1998), but lies just southeast of the southern boundary of the designated Disaster district. The Project area has been extensively explored, but the only production has been a few thousand tons of lithium-bearing clay for metallurgical testing (see Section IX).

VI. MINERALIZATION

For nearly 50 years geochemical anomalies and mineralogical studies reported by Glanzman and others (1978) and Rytuba and Glanzman (1979), have demonstrated that there are occurrences of lithium mineralization throughout the sedimentary rocks that fill the McDermitt Caldera basin. This section is based largely on the information provided in Appendix G of the Thacker Pass Lithium Mine Project EIS.

Lithium mineralization in the Thacker Pass Project is entirely contained within the lacustrine sediments of the McDermitt Caldera. These sediments are partially exposed at the surface, though they occur largely beneath alluvial cover at Thacker Pass. The sedimentary section, which has a maximum drilled thickness of about 525 feet, consists of alternating layers of claystone and volcanic ash with sparse interbedded basaltic lava flows. The claystone comprises 40% to 90% of the section. In many intervals, the claystone and ash are intimately intermixed. The claystones are variably brown, tan, gray, bluish-gray and black whereas the ash is generally white or very light gray. Individual claystone-rich units may be recognized over lateral distances of more than 500 feet although unit thickness can vary by as much as 20%. Ash-rich layers are more variable and appear to have some textures that suggest reworking. All units exhibit finely-graded bedding and laminar textures that imply a shallow lacustrine depositional environment.

Surficial oxidation persists to depths of 50 feet to 100 feet in the lacustrine sedimentary rock. Oxidized claystone is brown, tan, or light greenish-tan and contains iron oxide, whereas the ash is white with some orange- brown iron oxide. The transition from oxidized to unoxidized rock occurs over intervals as much as 15 feet thick.

The lacustrine sedimentary section at Thacker Pass overlies intracaldera Tuff of Long Ridge. A zone of weakly to strongly silicified sedimentary rock, the Hot Pond Zone (HPZ), occurs at the base of the sedimentary section above the Tuff of Long Ridge in most of the cores retrieved from the Thacker Pass deposit. Both the HPZ and the underlying Tuff of Long Ridge are generally oxidized.

Most of the lacustrine sedimentary rocks drilled in the Thacker Pass basin contain high lithium contents (> 100 ppm). Intervals that consist mostly of ash have lithium contents of less than 800 ppm, whereas intervals dominated by claystone contain more lithium (>1,000 ppm). Many intervals have very high lithium contents (>4,000 ppm). Intervals with extreme lithium contents (>8,000 ppm) occur locally. The highest lithium grades generally occur in the middle and lower parts of the sedimentary rock section.

The lithium content of the Thacker Pass deposit claystone can generally be predicted by the color and texture of the rock, as well as the amount of admixed ash. Intervals with the highest lithium grades (>4,000 ppm) generally contain gray to dark-gray or black claystone with less than 10% ash. Intervals of bluish-gray claystone with low ash content have moderate lithium content (generally 2,500 to 3,000 ppm). Intervals of light-colored claystone (e.g., tan, light gray, greenish-tan) have lower lithium grades (generally 1,500 to 2,500 ppm). Intervals of mixed claystone and ash are common and have variable lithium contents (generally 1,500 to 3,000 ppm) depending on the type of claystone and proportion of ash present.

Clay in the Thacker Pass lithium deposit includes two distinctly different types on the basis of chemistry and X-ray diffraction (XRD) spectra. Clay with XRD spectra that are indicative of smectite occurs at relatively shallow depths in the deposit. An illite-type clay occurs at moderate to deep depths in the lacustrine sedimentary section and locally occurs in intervals that contain as much as 8,000 ppm lithium. A relatively thin layer of mixed smectite-illite clay is found between the smectite and illite-type clay. A recent unpublished manuscript from Benson and others hypothesizes that secondary hydrothermal fluids associated with magmatic resurgence brought more lithium-rich solution into the system and altered the lithium-smectite clay into lithium-enriched illite. This event appears to be localized in Thacker Pass and is not observed in other portions of the McDermitt Caldera.

Other minerals in the Thacker Pass deposit claystone include calcite, quartz, potassium feldspar, plagioclase, dolomite, and fluorite. Pyrite and bitumen occur in the claystone below near-surface oxidized rock. Ash beds in the Thacker Pass deposit contain quartz and feldspar with local analcime, and minor clay and pyrite. Zeolite minerals are typically present in the north part of the caldera, but analcime is the only zeolite present in the Thacker Pass deposit.

VII. MINERAL EXPLORATION AND DEVELOPMENT WORK

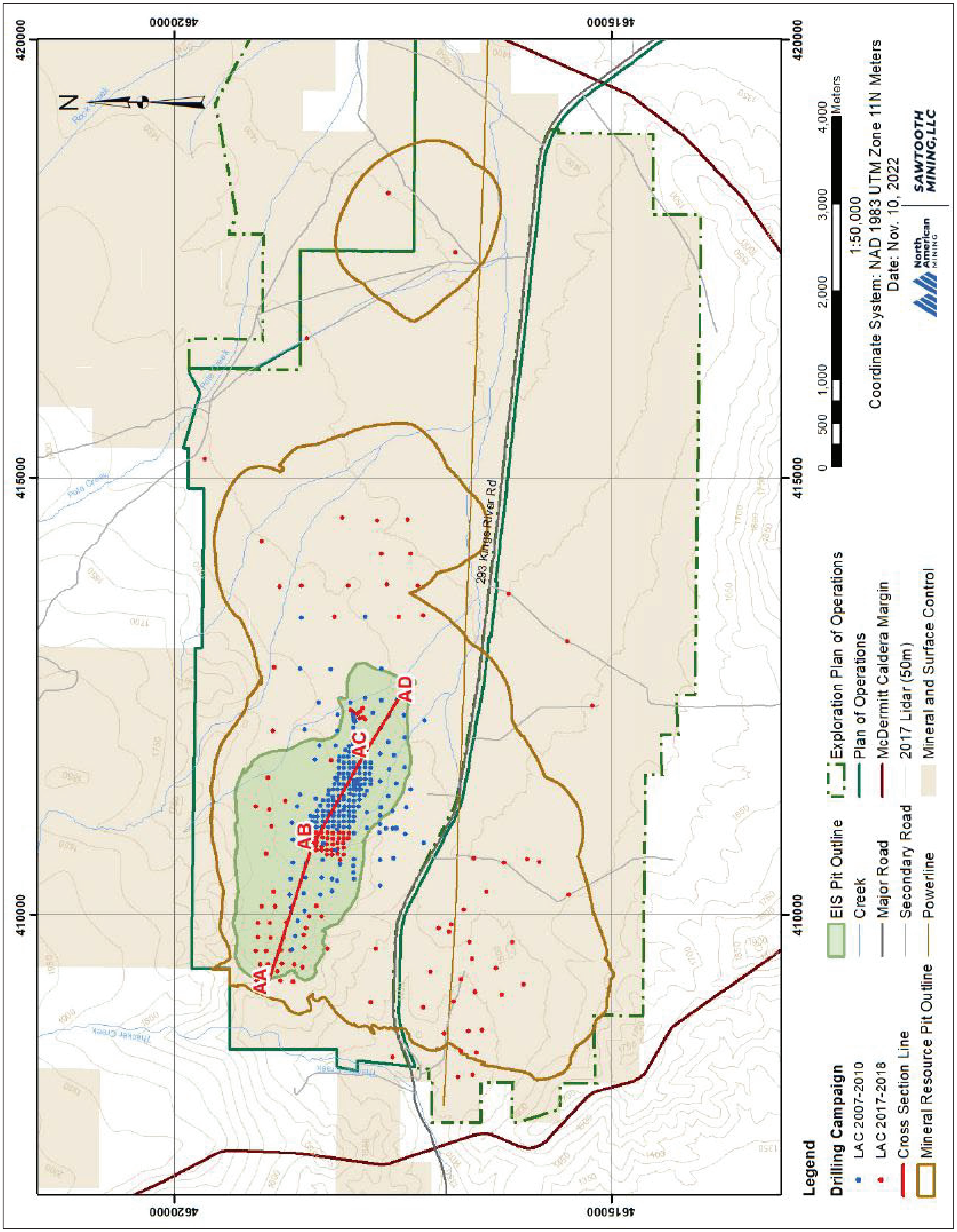
In 1975, Chevron began a uranium exploration program in the volcanic rocks located throughout the McDermitt Caldera. The United States Geological Survey notified Chevron on the presence of anomalous concentrations of lithium associated with the caldera. Chevron initiated a clay analysis program, which confirmed the presence of high lithium concentrations using airborne gamma ray spectrometry, although their exploration program continued to focus on uranium (Advisian, 2018).

Chevron drilled 234 holes in the 1970s and 1980s that broadly outlined the lithium deposit. Between 1980 and 1987, Chevron conducted a drilling program that focused on lithium targets and conducted extensive metallurgical testing to determine the viability of extracting lithium from the clays.

In 2007, Western Lithium USA Corporation (WLC) began an exploration drilling program focused on the southern portion of the caldera. WLC drilled 230 exploration holes over the course of four years in the Project area, which identified an anomalously high-grade lithium deposit. As part of a merger, WLC officially changed its name to Lithium Americas Corporation (LAC) in March of 2016 and ownership of the Project was placed in LAC's Nevada-based wholly owned subsidiary, Lithium Nevada Corporation (LNC). LNC has subsequently drilled an additional 144 exploration holes. The Kings Valley Project was also changed to the Lithium Nevada Project (now known as the Thacker Pass Project). Figure 9 shows the drill hole locations for operations conducted since 2007.

In 2012, WLC (predecessor to LNC) proposed the Kings Valley Clay Mine (KVCM). A Plan of Operations (POO) (BLM Casefile Number NVN-091547) for the KVCM included two open pits, two WRSFs, a mobile crusher, exploration area, stormwater controls, and ancillary facilities. The KVCM POO was approved in May 2014. The KVCM was never developed fully due to a decrease in clay demand immediately following its approval.

Figure 9-Drill hole location map for operations conducted since 2007. Adapted from LAC, 2023.



VIII. EXTRACTIVE OPERATIONS

There are currently no existing operations on-site for the extraction of lithium products from the mineralized resource. LAC's Feasibility Study published in January 2023 states the proposed flow sheet, material balance, and process design criteria for the Project were developed from metallurgical test work and a steady-state process model (LAC, 2023). The process flow sheet consists of five key areas: beneficiation (removing sand, pebbles, and other coarse materials), leaching and neutralization of the clay, counter current decantation and filtration circuit, magnesium and calcium removal (i.e., purification) and lithium carbonate production (LAC, 2023).

To begin the process, clay ore would be placed in a hopper and belt-fed into the beneficiation circuit which involves using water to create a slurry. The slurry is passed through a series of attrition scrubbers which essentially wash the material to separate sand and pebbles from the clay ore. The sand and pebbles are removed from the slurry using hydrocyclones and the concentrated clay slurry is thickened for leaching. The Project would use sulfuric acid to leach lithium from clay. All leaching would occur in agitated leach tanks within LNC's proposed mill. After the slurry is leached, lithium-bearing solution would be skimmed off for further processing and the solids would be neutralized prior to filtration. Neutralization would not only increase the pH, but also precipitate excess iron and aluminum from the residual solution. The neutralized solution would be filtered using a membrane filter press to produce a "filter cake" with roughly 35 to 40% moisture content. Filter cake would be transferred to the CTFS. Meanwhile, the lithium concentrate would be further treated to remove unwanted magnesium and calcium. Following that step, the lithium solution would be purified through a three-stage circuit resulting in the production of lithium carbonate (Li_2CO_3). The remaining liquor is sent to a crystallizer to crystallize and remove sodium and potassium salts by evaporation.

Approximately 33,000 tons per year (tpy) of lithium carbonate equivalent (LCE) would be produced during the initial phase. Finished products could include lithium carbonate, lithium sulfide, and lithium hydroxide monohydrate with market conditions determining the blend of finished products.

Major byproducts from ore-dressing and processing include coarse gangue from beneficiation, neutralized leach residue filter cake, magnesium sulfate salts, and sodium/potassium sulfate salts. Although not included in the Feasibility Study, magnesium sulfate salts and sodium/potassium salts would each have value that could be realized by LNC. According to ChemAnalyst, magnesium sulfate (commonly known as Epsom salt) had a bulk value of approximately $380 per ton in December 2022 (2023). The filter cake and salts will be conveyed to the clay tailings filter stack facility which will be progressively reclaimed during the life of the Project. On average, nearly 19,000 tonnes (1 tonne equals 1000 kilograms, or about 2205 pounds) per day (t/d) of cake and salts will be generated. Coarse gangue is generated at an average rate of 4,400 t/d.

IX. SAMPLING PROCEDURES AND ANALYTICAL WORK

This report relies on sampling and analytical procedures provided by LNC and no additional sampling was conducted by BLM to confirm the reported results. As a publicly traded company, LNC is required to follow the Standards of Disclosure for Mineral Projects required by National Instrument 43-101 of the Ontario

Securities Commission Bulletin in Canada. These standards are designed to ensure the technical accuracy of information that is published regarding mineral properties.

A. SAMPLE PREPARATION

The sampling procedures and quality assurance/quality control (QA/QC) program employed by Chevron was not certain, so LAC did not rely on any of that data (LAC, 2023). Under the drill programs conducted by WLC and LNC, sample preparation and security followed standard practices of placing drilled core into boxes and labelling onsite before transporting to the secure LAC logging facility in Orovada. Within the logging facility, LAC employees and contractors logged the lithology, photographed, cut, and sampled the drill core (LAC, 2023).

The lengths of the assay samples are determined by the geologist based on lithology. From 2007 to 2011 certain lithologies associated with no lithium value were not sampled for assay. These rock types are alluvium, basalt, HPZ and volcanic tuff. All drilled core collected in 2017 and 2018 was sampled for assay. Average assay sample length is 1.60 m (approximately 5.25 feet) but is dependent on lithology changes. The core was cut in half using a diamond blade saw and fresh water. Half the core was placed in a sample bag and the other half remained in the core boxes and stored in LAC's secure facility in Orovada (LAC, 2023).

B. ANALYTICAL TESTING

LAC used ALS Global (ALS) of Reno, Nevada as the primary assay lab for the Thacker Pass drill program. ALS is an ISO/IEC 17025-2017-certified Quality Systems Laboratory and they participate in the Society of Mineral Analysts round-robin testing. ALS is an independent laboratory without affiliation to LAC (LAC, 2023).

After LAC delivered secured samples to the assay lab, ALS would dry, mix, and crush the samples to 70% passing a 10 mesh screen to produce "coarse rejects." 250 grams of the coarse reject material was pulverized until 90% passed the 150 mesh screen to produce "pulp." The remaining coarse reject was stored in secure ALS warehouse until sampling was completed. The pulp was sent to ALS Vancouver, Canada for compositional analysis. Samples were analyzed using Inductively Coupled Plasma (ICP) with a four-acid digestion process. ALS produces a certificate of results which LAC staff would review using established QA/QC protocols. ALS would reanalyze samples if directed by LAC based on anomalous values found during QA/QC, but otherwise no further action was taken by ALS and the coarse rejects and pulps were delivered back to LAC for secure storage (LAC, 2023).

To determine mineral concentrations, ALS Global used their standard ME-MS61™ analytical package for testing of all of LAC's samples. The ME-MS61™ package provides analytical results for 48 elements, including lithium. The method uses a standard four-acid digestion followed by an atomic emission plasma spectroscopy (ICP-AES) analysis to ensure that elevated metal concentrations would not interfere with a conventional inductively coupled plasma mass spectroscopy (ICP-MS) analysis. Certified analytical results were reported on the ICP-MS determinations (LAC, 2023).

C. QUALITY CONTROL

LAC employed a QA/QC program that included inserting blanks, 3,378 ppm grade standards, 4,230 ppm grade standards, and duplicate samples into the drill core sample assay sets. In 2010-2011, for every 34 samples, WLC randomly inserted two standard samples (one 3,378 ppm grade and 4,230 ppm grade), one duplicate sample, and one blank sample. The 2017-2018 LNC QA/QC program was slightly modified to include a random blank or standard sample within every 30.48-meter interval and taking a duplicate split of the core (¼ core) every 30.48 meters. Over the course of the drill program beginning in 2010, approximately 10% of all samples sent by LAC to ALS for assaying have been blanks, standards, or duplicates.

ALS also completed their own internal QA/QC program which included blanks, standards and duplicates throughout the LAC exploration programs for lithium and deleterious elements including aluminum, calcium, cesium, iron, potassium, magnesium, sodium and rubidium. The standards used by ALS and the ALS QA/QC programs were reviewed by qualified professionals (LAC, 2023).

X. RESOURCE EVALUATION

This report assumes the economic considerations for mining and processing costs provided in LAC's Feasibility Study to comply with National Instrument 43-101 (2023) are true and accurate. On that basis, if the lithium concentrations in the areas surrounding the West WRSF, East WRSF, and CTFS are consistent with the lithium concentrations in the pit area, it would stand that locatable minerals exist on the subject claims.

A. CURRENT MINERAL RESERVE IN TECHNICAL REPORT

The results of the exploration drilling, sampling, and testing program from 374 drill holes has allowed LAC to determine an initial proven and probable reserve estimate of 217,300,000 tonnes with an average lithium grade of 3,160 ppm (LAC, 2023). LAC based this resource estimate on approximately 19,000 individual samples that were assayed for lithium content using the procedures described in Section XI.

The reserve estimate developed by LAC is based on a cutoff grade of 1,047 ppm lithium. The cutoff grade represents the lower limit of an economic mineral resource and is generally used to distinguish presently uneconomic material from ore. The cutoff grade is calculated as the operating cost per tonne processed (determined to be $88.50/tonne) divided by the price per recovered tonne lithium metal (assumed to be $85,519/tonne) (LAC, 2023). Material with lithium concentrations below the cutoff grade would generally be considered uneconomic under the current conditions. In practice however, not all material below the cutoff grade will be treated as uneconomic. For example, if a short interval of material close to, but below, the cutoff grade must be mined to access ore-grade material below, it may be economical to process that material. Mining and metallurgical engineers would complete detailed cost-benefit and trade-off analyses to determine how that material is handled. For purposes of this report, we will use the company-established cutoff grade of 1,047 ppm.

B. GEOLOGIC BLOCK MODEL AND CROSS SECTIONS

LAC has uploaded all geologic and analytical data from the 374-hole drilling program into an electronic model. From that model, LAC can view the resource in three dimensions and quickly generate cross sections for any portion of the Project. Figures 10 through 14 provide the plan-view project map and four cross sections depicting the subsurface geology across the affected facilities. Figures 11, 12, and 14 provide the drill holes along each cross section and highlight the intervals that exceeded 1,000 ppm lithium. The cross section in Figure 13 does not intersect any drill holes, but the section reflects the geologic block model and inferred lithium resource exceeding 1,000 ppm.

Figure 10-Plan-view project map showing the measured, indicated, and inferred lithium resource from LAC's Geologic Block Model.

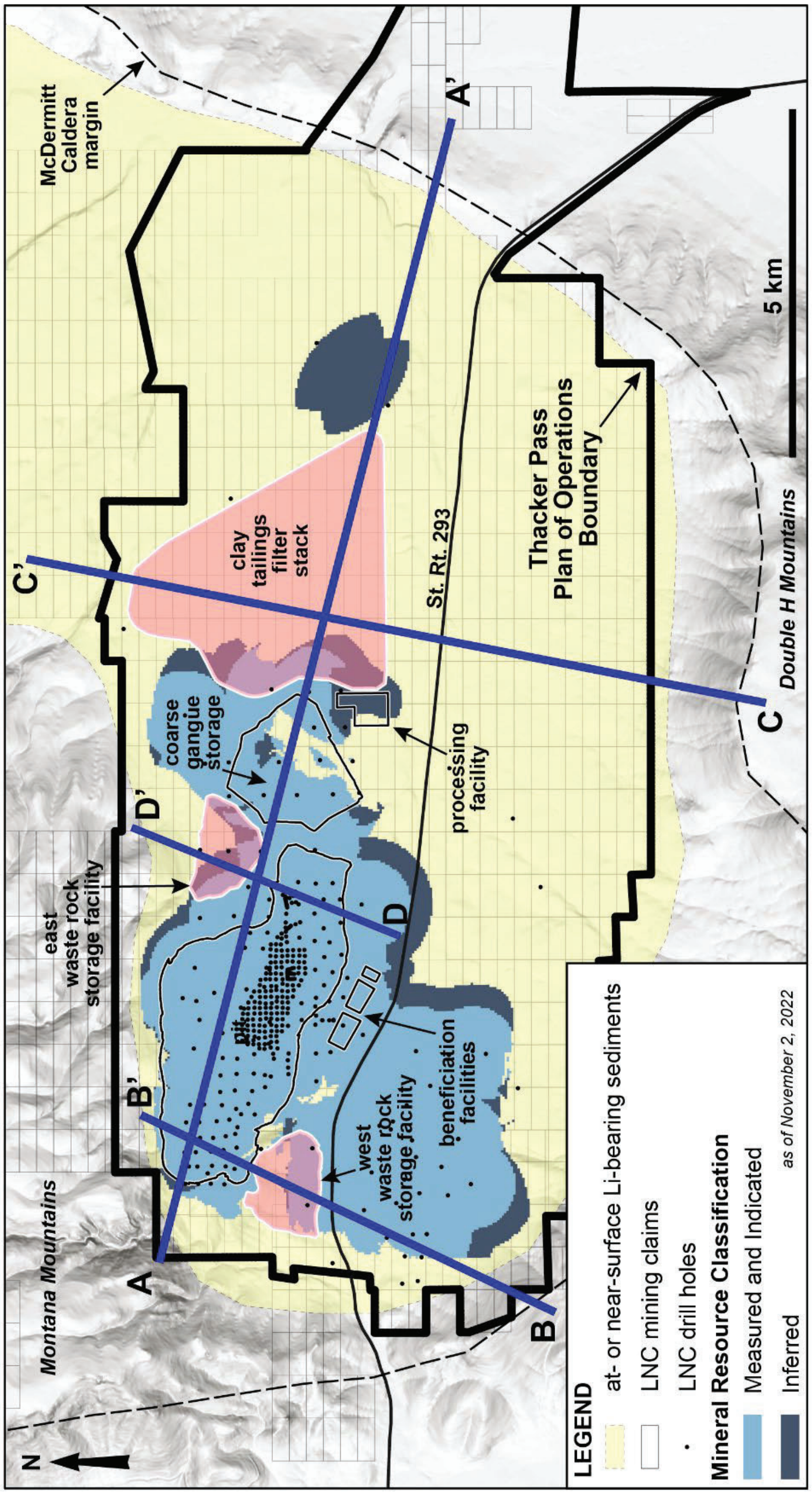


Figure 11-Cross-section A-A' along the length of the project with 3X vertical exaggeration.

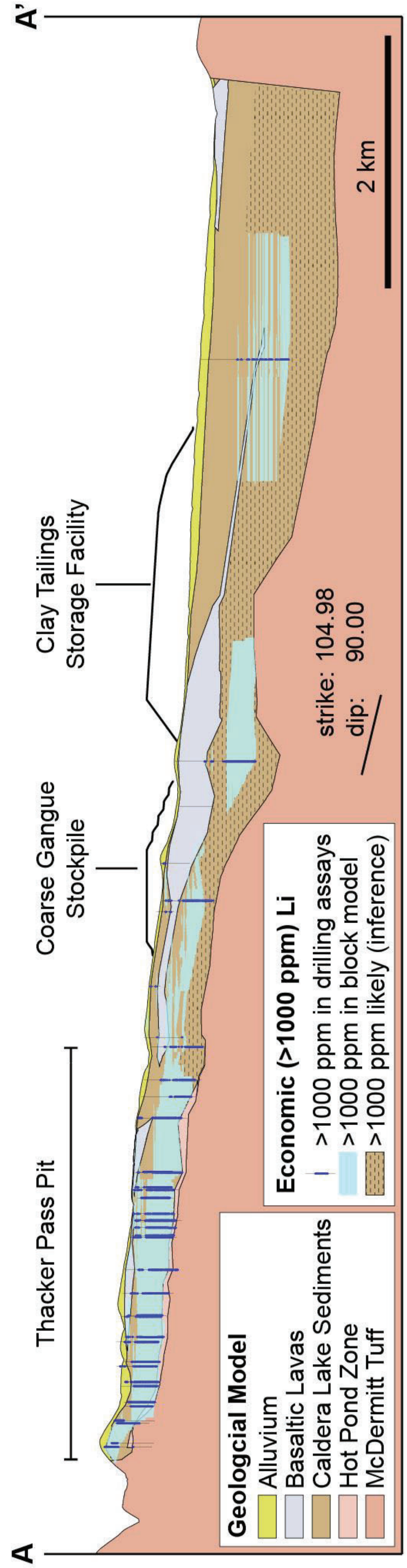


Figure 12-Cross-section B-B' across the West WRSF with 3X vertical exaggeration. The surface exposure of the McDermitt Tuff is interpreted as an intercaldera horst.

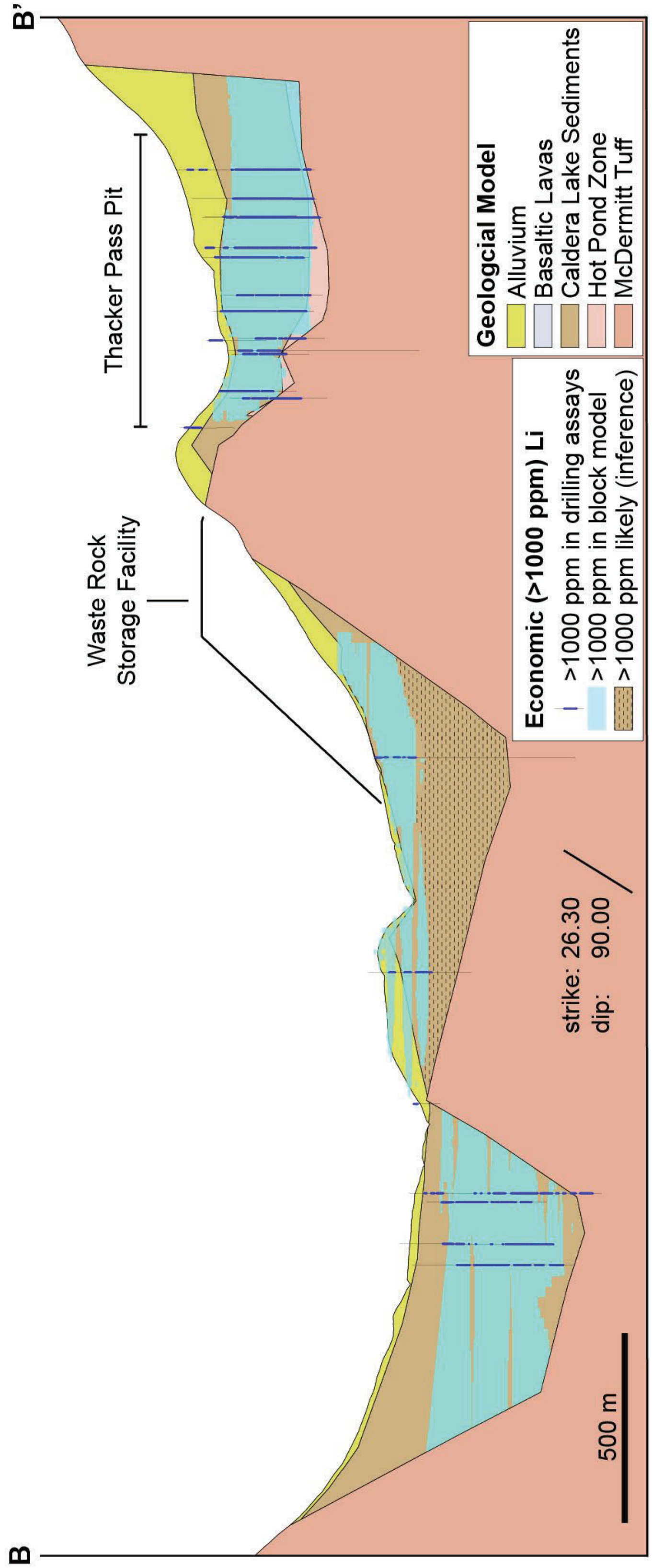


Figure 13-Cross-section C-C' across the CTFS with 3X vertical exaggeration

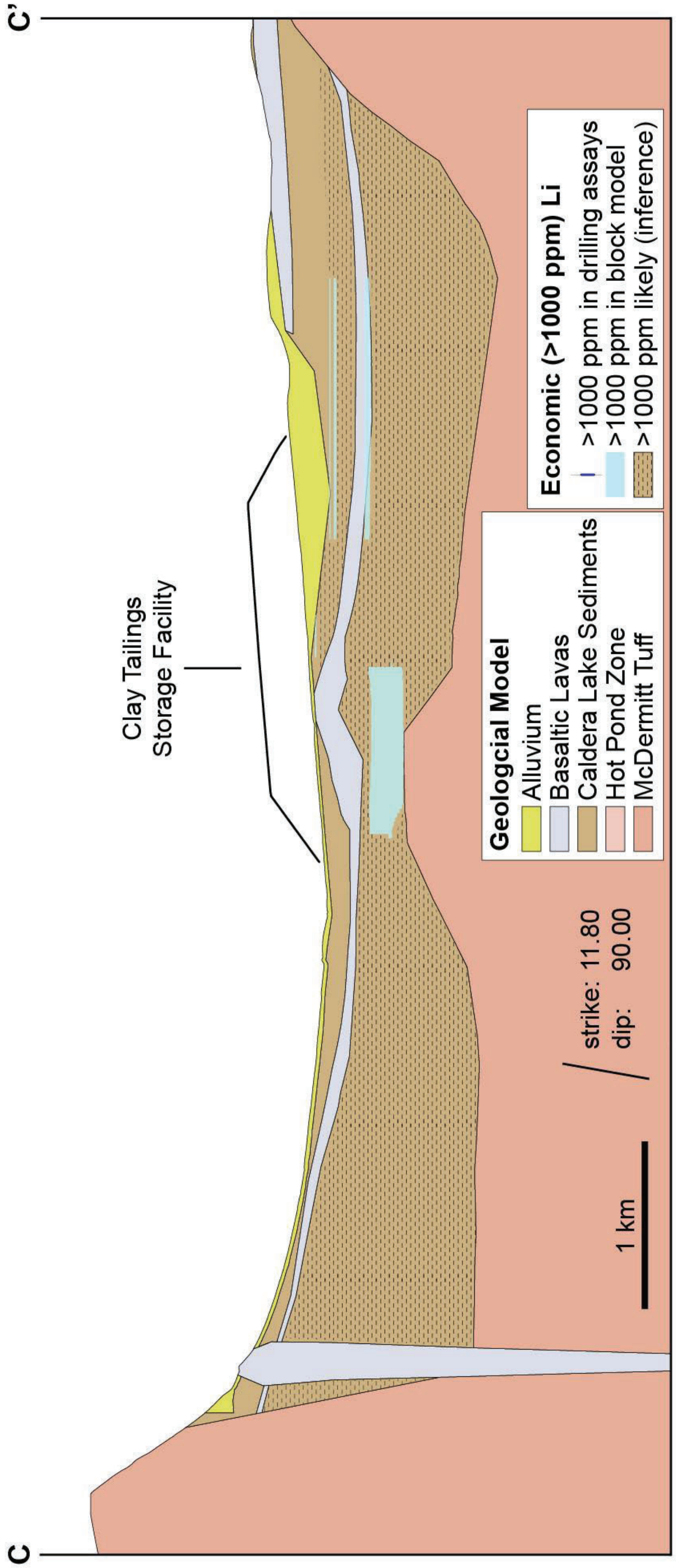
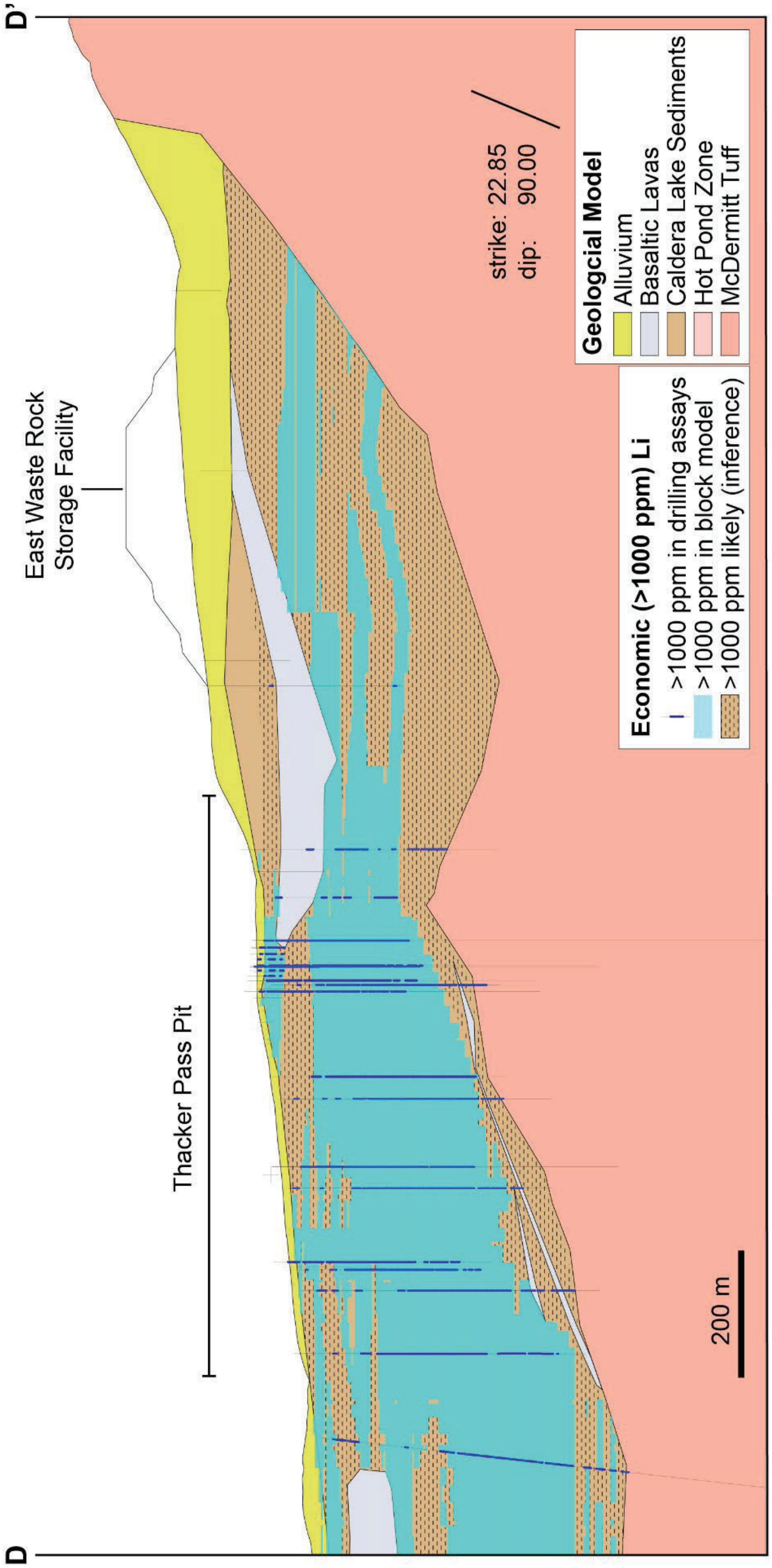


Figure 14- Cross-section D-D' across the East WRSF with 3X vertical exaggeration



C. ANALYTICAL RESULTS

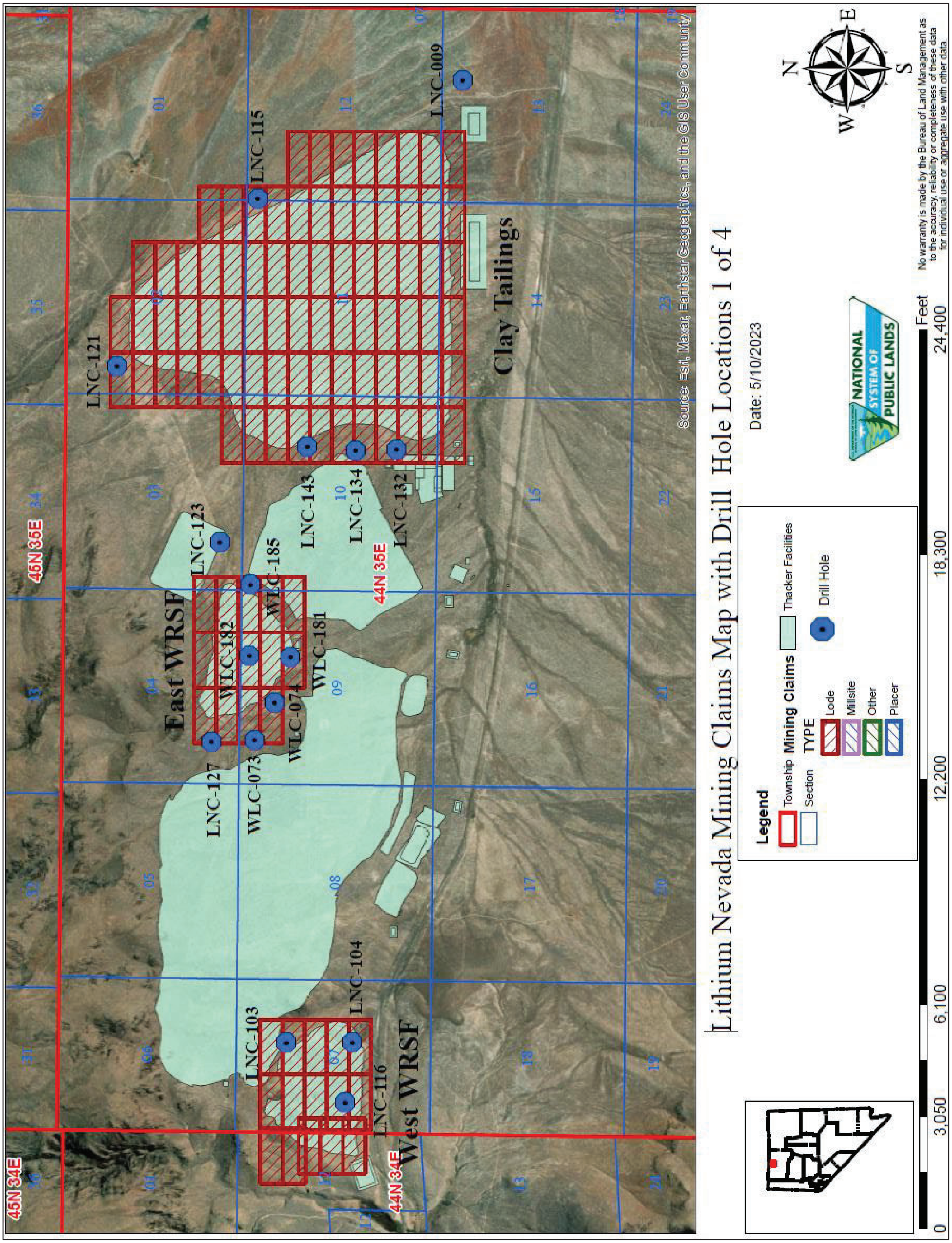
The BLM has reviewed the analytical results from LNC's drilling, with a focus on drill holes closest to the West WRSF, East WRSF and CTFS. Figure 15 provides the drill hole locations in relation to each facility. The details for each facility are provided below. The analytical results for lithium and the drill hole lithologies for each drill hole below is included in Appendix C through Appendix H. For the purposes of this report, the area of influence for each drill hole is considered as half the distance to the next nearest drill hole.

West WRSF

Four drill holes appear to directly intersect the West WRSF: LNC-081, LNC-103, LNC-104 and LNC-116. Figure 12 shows the intervals exceeding 1,000 ppm lithium in drill hole LNC-116. LNC-081 and LNC-103 were drilled in almost the exact same location on the northeast edge of the West WRSF. LNC-103 was drilled almost twice as deep and has more descriptive geologic information. Therefore, this report relies on the data from LNC-103. The drill hole location coincides with a ridge of volcanic rock that separates the south edge of the designed open pit and the north edge of the West WRSF. The surface geology in this area is mapped by Henry et al. as the McDermitt Tuff (2017) and by LNC as the Tuff of Long Ridge (refer back to Figures 7 and 8). As a result, LNC-103 did not encounter lithium concentrations that exceed the cutoff grade of 1,047 ppm. The lithology in LNC-103 is primarily described as volcanic sediments, lithic tuff, rheomorphic tuff, pumice tuff, and vitric tuff related to the McDermitt Tuff. Since the mineralized material is generally clay, there is no surprise that LNC-103 did not encounter lithium concentrations above the cutoff grade. But geologic mapping and interpretation shows the caldera lake sediments thickening to the south and the drill result from LNC-104 and LNC-116 reflect that reality.

LNC-104 and LNC-116 were drilled along the same general latitude, near the south end of the West WRSF. LNC-104 is approximately 1,800 feet due south of LNC-103 described above. Beginning at ground level and continuing nearly 440 feet, 45 out of 79 samples from LNC-104 contain greater than 1,047 ppm lithium, with a maximum concentration of 5,870 ppm. The simple average of all 79 samples is 1,730 ppm, and the average of the 45 samples exceeding the cutoff grade is 2,698 ppm. LNC-116 also shows a consistent lithium concentration at the surface. Beginning at ground level and continuing to approximately 106 feet, 11 of 16 samples from LNC-116 exceed the cutoff grade of 1,047 ppm lithium. The simple average of all 16 samples is 2,366 ppm lithium. The average of the 11 samples that exceed the cutoff grade is 3,092 ppm lithium, and the maximum concentration is 5,290 ppm. LNC-104 and LNC-116 demonstrate the presence of lithium mineralization along the southern edge of the West WRSF and geologic inference allows us to conclude the lacustrine caldera sediments to the north would contain similar lithium concentrations.

Figure 15-Drill hole locations in relation to the West WRSF, East WRSF, and CTFS.



East WRSF

The East WRSF is directly intersected by two drill holes: WLC-181 and WLC-182. WLC-181 is a shallow hole, less than 80 feet deep, located at the southern tip of the triangular facility. A short interval of lithium mineralization exceeding 1,047 ppm was encountered less than 20 feet below the surface. A second interval exceeding 1,047 ppm, approximately 10 feet thick, was discovered approximately 60 feet below ground surface. The remaining intervals did not exceed 1,047 ppm lithium. WLC-182 was a similarly shallow hole, ending approximately 100 feet below ground surface. The drill logs show mostly basalt and volcanic ash. None of the intervals exceeded 1,047 ppm lithium. Based on the geologic block model (as shown in Figure 11) and surrounding drill data, lithium mineralization is inferred to be present below the basalt unit, and it appears the drill holes (WLC-181 and WLC-182) were terminated at or above the basalt.

An additional five holes were drilled around the perimeter of the East WRSF, but none directly intersected the facility footprint: LNC-073, LNC-074, LNC-123, LNC-127, and WLC-185. Although these drill holes are outside the East WRSF, they provide useful data regarding the subsurface geology. Of these drill holes, only LNC-127 does not have lithium concentrations exceeding 1,047 ppm.

WLC-073 was drilled west of the East WRSF, between the open pit and East WRSF. Lithium concentrations exceeding 1,047 ppm were first encountered approximately 140 feet below ground surface. Over the next 300 feet below ground surface, 47 out of 64 intervals contain lithium concentrations greater than 1,047 ppm, including a maximum concentration of 5,840 ppm lithium. The average concentration of all 64 samples over that 300-foot section is 2,052 ppm lithium and the average of the 47 samples exceeding cutoff is 2,686 ppm lithium. WLC-074 was drilled approximately 1,150 feet southeast of WLC-073 to a total depth of approximately 335 feet. WLC-074 only contained two samples that exceeded 1,047 ppm lithium: one interval at approximately 120 feet below ground surface and another at the bottom of the hole, approximately 330-335 feet below ground surface. As described later for the CTFS, this hole appears to terminate before reaching the higher lithium mineralization.

LNC-123 was drilled east of the East WRSF but shows high lithium concentrations beginning approximately 106 feet below ground level, including a maximum of 5,430 ppm lithium. Beginning at 106 feet, 49 out of 58 sample intervals exceeded lithium concentrations of 1,047 ppm. The average concentration across all 58 intervals is 2,470 ppm lithium, and the average concentration of the 49 samples exceeding cutoff is 2,853 ppm lithium. After approximately 425 feet below ground surface, the drill logs document lithic tuff and flow breccia with low lithium concentrations to the end of the drill hole at 600 feet below ground surface. LNC-127 was another shallow hole drilled west of the East WRSF. This drill hole terminated in basalt at approximately 125 feet below ground surface and did not encounter any sample intervals exceeding 1,047 ppm lithium.

WLC-185 was drilled just east of the East WRSF, approximately 1,900 feet east of WLC-182 and 1,400 feet southwest of LNC-123. The top 140 feet of WLC-185 encountered volcanic sediments, but not much clay, and as a result, only two intervals exceeded 1,047 ppm lithium. The drill logs show a layer of basalt extending from 140 feet below ground surface to the bottom of the hole at approximately 311 feet.

In general, most of the drill holes near the East WRSF encounter lithium concentrations that exceed 1,047 ppm, and WLC-073 and LNC-123 show high lithium concentrations over thick intervals. The geology surrounding the East WRSF appears to be consistent with the western edge of the CTFS, where a layer of basalt covers the higher-concentration lithium mineralization. At the CTFS, LNC drilled through the basalt and exposed the lithium mineralization below. Geologic inference would suggest that similar conditions likely exist at the East WRSF and would be confirmed if drilling were extended to greater depths below the basalt layer.

CTFS

There are six drill holes that surround the CTFS (LNC-009, LNC-115, LNC-121, LNC-132, LNC-134, and LNC-143), but none appear to directly intersect the facility footprint. Figure 11 provides a general west-east trending cross section that includes the drill results from LNC-134 and LNC-009. Figure 13 provides a generally south-north trending cross section that does not directly encounter any drill holes, but incorporates data from the geologic block model and depicts the inferred resource of lithium exceeding 1,000 ppm.

All drill holes, except LNC-132, had lithium concentrations above the cutoff grade. LNC-132 was documented as being drilled in tertiary basalt for nearly the entire 330-foot length of the hole. Immediately to the north approximately 1,130 feet, LNC-134 exhibited a similar layer of basalt, but the total hole was drilled to approximately 700 feet and a consistent deposit of caldera lake sediments containing elevated concentrations of lithium were encountered at approximately 440 feet below ground surface. From 440 feet to the bottom of the hole at 701 feet, 49 of 51 samples exceed the cutoff grade. The average lithium concentration of those 51 samples is 3,121 ppm, with a maximum of 6,810 ppm lithium.

Drill hole LNC-143 has lithium concentrations exceeding 1,047 ppm beginning approximately 57 feet below ground surface. Drill logs show a 15-foot lens of caldera lake sediments averaging 1,683 ppm lithium, followed by a 20-foot lens of volcanic ash below the cutoff grade, and then another 18-foot lens of sediments averaging 1,437 ppm lithium. Below 118 feet, the geology is shown as basalt until the bottom of the hole at approximately 255 feet below ground surface.

Along the north end of the CTFS, analytical data for LNC-121 shows lithium concentrations consistently exceeding the cutoff grade beginning approximately 490 feet below ground surface. Over the next 120 feet, 17 of 23 samples exceed the cutoff grade with an average of 1,776 ppm lithium across all samples, 2,179 ppm lithium for those samples that exceed the cutoff grade, and a maximum concentration of 3,270 ppm lithium.

Along the eastern perimeter of the CTFS, analytical data for LNC-155 shows lithium concentrations consistently exceeding the cutoff grade beginning approximately 440 feet below ground surface. Over the next 70 feet, 9 of 14 samples exceed the cutoff grade with an average of 1,115 ppm lithium across all samples, 1,467 ppm lithium for those samples that exceed the cutoff grade, and a maximum concentration of 1,900 ppm lithium.

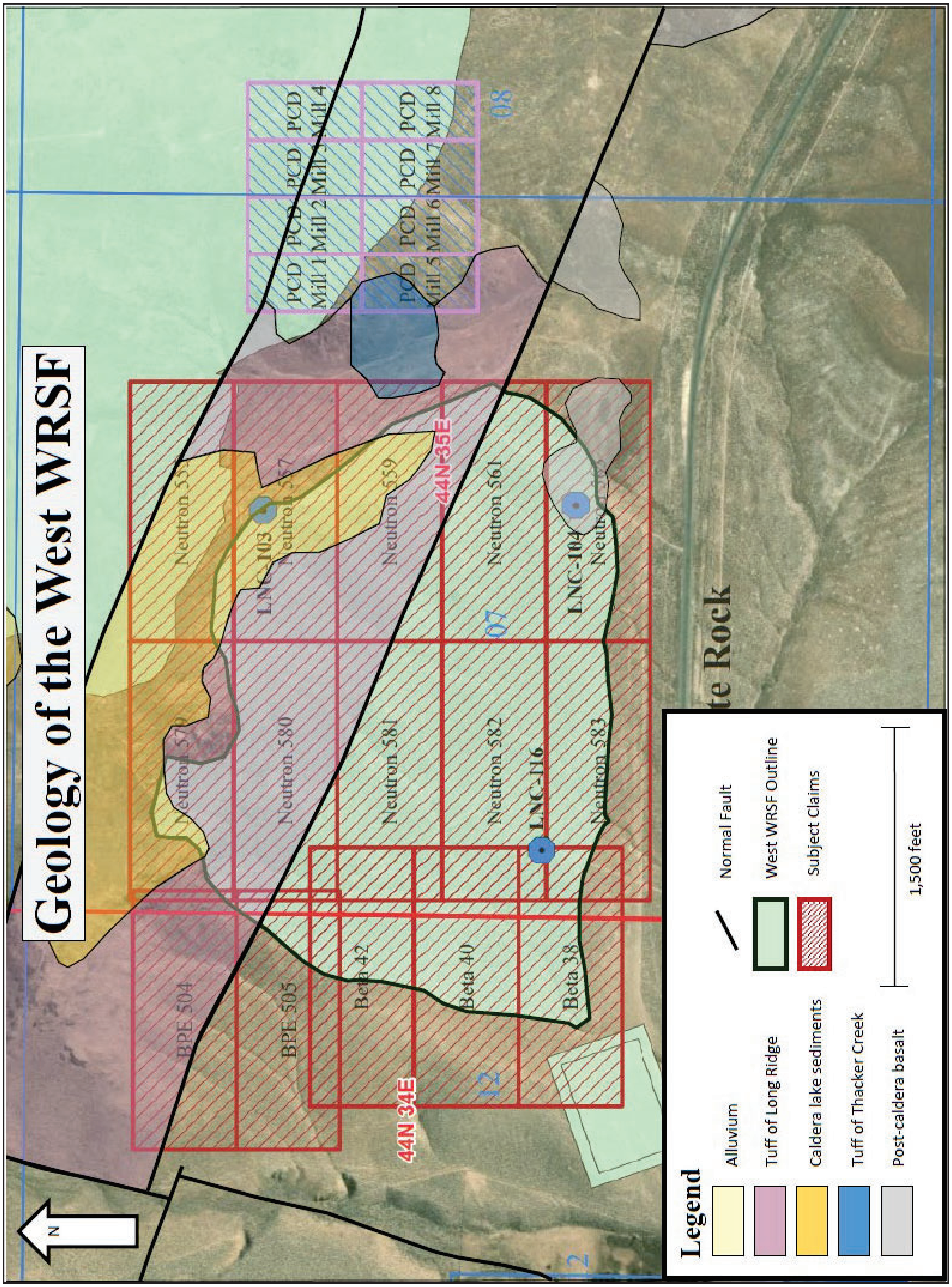
Drill hole LNC-009 is located approximately 1,000 feet southeast of the southeast corner of the CTFS. Lithium concentrations exceeding the cutoff grade begin approximately 310 feet below ground surface and continue intermittently until the bottom of the drill hole at approximately 760 feet below ground surface. Over that 450-foot interval, 52 of 93 samples exceed the cutoff grade with an average of 1,376 ppm lithium across all samples, 2,075 ppm lithium for those 52 samples that exceed the cutoff grade, and a maximum concentration of 4,050 ppm lithium.

D. MINERAL RESOURCES

The BLM has reviewed the available data to determine the mineralization of the subject claims. In general, the geologic environment throughout the McDermitt Caldera, and specifically near Thacker Pass, was conducive to the deposition of sediments within the resultant lake. The dissolution of lithium from the intracaldera volcanic glass and tuffs allowed lithium-rich clays to form in a layer-cake fashion. Where the lacustrine sediments are present, mineralization with elevated lithium content is likely to occur.

Below the West WRSF, drillhole data has shown that elevated lithium concentrations are clearly present at the southern end in LNC-104 and LNC-116. This data indicates that elevated lithium mineralization exists within the caldera lake sediments in the West WRSF location. The geologic block model and associated cross section show the caldera lake sediments continue to the north toward the intrabasin horst of the Tuff of Long Ridge exposed at the surface. The mapped surface geology shows the Tuff of Long Ridge along the north end of the West WRSF. Drilling data confirmed low lithium concentrations in the tuff. Although alluvium and caldera lake sediments overlie portions of the tuff, the thickness and lithium grade within those sediments are not known at this location. Figure 16 shows the geology surrounding the West WRSF in relation to the specific mining claims.

Figure 16-West WRSF in relation to volcanic tuff. Geology adapted from Figure 7.



The Tuff of Long Ridge is mapped on nine mining claims associated with the West WRSF. Three of those claims (Neutron 559, Neutron 561, and Neutron 581) are within the area of influence for drill holes LNC-104 and LNC-116 and geologic inference suggests they contain caldera lake sediments with elevated lithium concentrations. Two of the mining claims would be part of the open pit (Neutron 555 and Neutron 579). Locatable minerals have not yet been found on the remaining four lode mining claims (Neutron 557, Neutron 580, BPE 504, and BPE 505). Table 1 summarizes the conclusions related to mining claims associated with the Tuff of Long Ridge and the West WRSF.

Table 1-Rationale for four mining claims where minerals have not yet been found at the West WRSF.

Mining Claim Name	Elevated Lithium Inferred	Part of Open Pit	Minerals Not Yet Found
Neutron 559	X		
Neutron 561	X		
Neutron 581	X		
Neutron 555		X	
Neutron 579		X	
Neutron 557			**X**
Neutron 580			**X**
BPE 504			**X**
BPE 505			**X**

All other lode mining claims associated with the West WRSF are expected to have lithium mineralization above the cutoff grade.

Around the perimeter of the CTFS, drillhole data shows that elevated lithium concentrations are present. Geologic logs document a unit of basalt and other volcanics along the western edge of the CTFS, but that unit thins out or disappears to the east. The lithium mineralization is stratigraphically deeper below the CTFS than the proposed open pit, but concentrations below the CTFS consistently exceed 1,000 ppm. Geologic inference suggests that high concentrations of lithium mineralization exist at this location.

Below the East WRSF, high concentrations of lithium were clearly identified in two drill holes and evidence of lithium mineralization was documented in three other drill holes. This analytical data and the area of influence suggests that ten mining claims at the East WRSF have evidence of lithium mineralization. Only WLC-182 and LNC-127 did not encounter lithium mineralization. As a result, four mining claims along the north edge of the East WRSF do not contain sufficient evidence of mineralization: Neutron 609, Neutron 611, Neutron 612, and Neutron 615.

The available data and geologic inference also suggest that lithium mineralization is present at depth below the East WRSF, similar to the CTFS, where lithium concentrations exceed the cutoff grade below a unit of basalt. Many of the holes drilled at the East WRSF were terminated before exiting the basalt and encountering the lacustrine sediments below. Therefore, it is likely additional lithium mineralization exists below the East WRSF, similar to the CTFS, and could be confirmed with additional drilling.

As previously discussed, the basin that resulted from a collapsed caldera created the ideal depositional environment for lithium. The sediments that filled the lake and resultant clays have shown elevated lithium concentrations at a broad scale, and Henry et al., have mapped thousands of acres within the McDermitt Caldera as, "known or probable area[s] of lithium mineralization," including Thacker Pass (2017). As expected, the open pit area targets the lithium resource that is closest to the surface and provides the best cost:benefit ratio, but additional and potentially valuable lithium mineralization clearly exists outside the pit area. Put otherwise, BLM has determined that, on the record before it and for all but eight claims "evidence in the administrative record shows that . . . valuable minerals have been found on the mining claims," *Rosemont*, 33 F.4th at 1212.

XI. REFERENCES

Advisian, 2018. Technical Report on the Pre-Feasibility Study for the Thacker Pass Project, Humboldt County, Nevada, USA. August.

Benson, T. R., Mahood, G. A., & Grove, M. (2017). Geology and 40Ar/39Ar geochronology of the middle Miocene McDermitt volcanic field, Oregon and Nevada: Silicic volcanism associated with propagating flood basalt dikes at initiation of the Yellowstone hotspot. Geological Society of America Bulletin, 1–25.

ChemAnalyst (2023). Magnesium Sulphate Price Trend and Forecast, Market Overview, for the quarter ending December 2022. https://www.chemanalyst.com/Pricing-data/magnesium-sulphate-1249, accessed 3/22/2023.

Coble, M. A., & Mahood, G. A. (2012). Initial impingement of the Yellowstone plume located by widespread silicic volcanism contemporaneous with Columbia River flood basalts. Geology, 40(7), 655–658.

Colgan, J. P., Dumitru, T. a., McWilliams, M., & Miller, E. L. (2006). Timing of Cenozoic volcanism and Basin and Range extension in northwestern Nevada: New constraints from the northern Pine Forest Range. Geological Society of America Bulletin, 118(1–2), 126–139.

Conrad, W. K. (1984). The mineralogy and petrology of compositionally zoned ash flow tuffs, and related silicic volcanic rocks, from the McDermitt Caldera Complex, Nevada-Oregon. Journal of Geophysical Research, 89(B10), 8639–8664.

Glanzman, R. K., McCarthy, H. & Rytuba, J. J. (1978) Lithium in the McDermitt Caldera, Nevada and Oregon, Energy 3, 347–353.

Henry, C. D., Castor, S. B., Starkel, W. A., Ellis, B. S., Wolff, J. A., Laravie, J. A., … Heizler, M. T. (2017). Geology and evolution of the McDermitt caldera, northern Nevada and southeastern Oregon, western USA. Geosphere, 13(4), 1–47.

Lithium Americas Corporation, 2023, Feasibility Study, National Instrument 43-101 Technical Report for the Thacker Pass Project, Humboldt County, Nevada, USA, effective date: November 2, 2022.

Lithium Nevada Corporation, 2020, Plan of Operations & Reclamation Plan, Thacker Pass Project, BLM casefile NVN098586, received 7 December 2020.

Noble, D. C., McCormack, J. K., Mckee, E. H., Silberman, M. L., and Wallace, A. B., 1988a, Time of mineralization in the evolution of the McDermitt caldera complex, Nevada-Oregon, and the relation of middle Miocene mineralization in the northern Great basin to coeval regional magmatic activity: Economic Geology, v. 83, p. 859-863.

Rytuba, J. J., & R.K. Glanzman (1978). Relation of Mercury, Uranium, and Lithium Deposits to the McDermitt Caldera Complex, Nevada-Oregon. U.S. Geological Survey, Open-file Report 78-926.

Rytuba, J. J., & McKee, E. H. (1984). Peralkaline Ash Flow Tuffs and Calderas of the McDermitt Volcanic Field, Southeast Oregon and North Central Nevada. Journal of Geophysical Research, 89, 8616–8628.

Silberling, N.J.; Roberts, R.J. (1962). Pre-Tertiary stratigraphy and structure of northwestern Nevada. Geological Society of America. ISBN 9780813720722. Special Paper 72. Retrieved 2014-03-01.

Stewart, J.H., 1980, Geology of Nevada, Nevada Bureau of Mines and Geology, Special Publication 4, 136 p.

Tingley, J.V., 1998, Mining Districts of Nevada: Nevada, Bureau of Mines and Geology Report 47, Second Edition.

Willden, R., 1964, Geology and mineral deposits of Humboldt County, Nevada, Nevada Bureau of Mines and Geology, Bulletin 59, 154 p.

U.S. Bureau of Land Management, 1985. BLM Manual 3031 – Energy and Mineral Resource Assessment, Illustration 3.

U.S. Bureau of Land Management, 1994. BLM Manual 3060 – Mineral Reports – Preparation and Review

Appendix A

List of Subject Mining Claims

West WRSF

Legacy Serial Number	Legacy Lead File Number	LLD	Claim Type	Claim Name	Date of Location	Case Disposition	Claimant
NMC1030198	NMC1030193	21 0440N 0340E 012 NE	LODE CLAIM	BPE 504	40424	ACTIVE	LITHIUM NEVADA CORP
NMC1030199	NMC1030193	21 0440N 0340E 012 NE	LODE CLAIM	BPE 505	40424	ACTIVE	LITHIUM NEVADA CORP
NMC894762	NMC894373	21 0440N 0340E 012 NE	LODE CLAIM	BETA 42	38411	ACTIVE	LITHIUM NEVADA CORP
NMC894760	NMC894373	21 0440N 0340E 012 NE, SE	LODE CLAIM	BETA 40	38411	ACTIVE	LITHIUM NEVADA CORP
NMC894758	NMC894373	21 0440N 0350E 012 SE	LODE CLAIM	BETA 38	38411	ACTIVE	LITHIUM NEVADA CORP
NMC900428	NMC900094	21 0440N 0350E 007 NE, NW	LODE CLAIM	NEUTRON 555	38471	ACTIVE	LITHIUM NEVADA CORP
NMC900430	NMC900094	21 0440N 0350E 007 NE, NW	LODE CLAIM	NEUTRON 557	38471	ACTIVE	LITHIUM NEVADA CORP
NMC900432	NMC900094	21 0440N 0350E 007 NE, NW	LODE CLAIM	NEUTRON 559	38471	ACTIVE	LITHIUM NEVADA CORP
NMC900434	NMC900094	21 0440N 0350E 007 SW, SE	LODE CLAIM	NEUTRON 561	38471	ACTIVE	LITHIUM NEVADA CORP
NMC900436	NMC900094	21 0440N 0350E 007 SW, SE	LODE CLAIM	NEUTRON 563	38471	ACTIVE	LITHIUM NEVADA CORP
NMC900452	NMC900094	21 0440N 0350E 007 NW	LODE CLAIM	NEUTRON 579	38483	ACTIVE	LITHIUM NEVADA CORP
NMC900453	NMC900094	21 0440N 0350E 007 NW	LODE CLAIM	NEUTRON 580	38483	ACTIVE	LITHIUM NEVADA CORP
NMC900454	NMC900094	21 0440N 0350E 007 NW	LODE CLAIM	NEUTRON 581	38483	ACTIVE	LITHIUM NEVADA CORP
NMC900455	NMC900094	21 0440N 0350E 007 NW, SW	LODE CLAIM	NEUTRON 582	38483	ACTIVE	LITHIUM NEVADA CORP
NMC900456	NMC900094	21 0440N 0350E 007 SW	LODE CLAIM	NEUTRON 583	38483	ACTIVE	LITHIUM NEVADA CORP

East WRSF

Legacy Serial Number	Legacy Lead File Number	LLD	Claim Type	Claim Name	Date of Location	Case Disposition	Claimant
NMC982487	NMC982465	21 0440N 0350E 004 SW, SE	LODE CLAIM	NEUTRON 608	39465	ACTIVE	LITHIUM NEVADA CORP
NMC982488	NMC982465	21 0440N 0350E 004 SW, SE	LODE CLAIM	NEUTRON 609	39465	ACTIVE	LITHIUM NEVADA CORP
NMC982490	NMC982465	21 0440N 0350E 004 SE	LODE CLAIM	NEUTRON 611	39465	ACTIVE	LITHIUM NEVADA CORP
NMC982491	NMC982465	21 0440N 0350E 004 SE	LODE CLAIM	NEUTRON 612	39465	ACTIVE	LITHIUM NEVADA CORP
NMC982493	NMC982465	21 0440N 0350E 004 SE	LODE CLAIM	NEUTRON 614	39465	ACTIVE	LITHIUM NEVADA CORP
NMC982494	NMC982465	21 0440N 0350E 004 SE	LODE CLAIM	NEUTRON 615	39465	ACTIVE	LITHIUM NEVADA CORP
NMC900302	NMC900094	21 0440N 0350E 009 NE	LODE CLAIM	NEUTRON 428	38469	ACTIVE	LITHIUM NEVADA CORP
NMC900303	NMC900094	21 0440N 0350E 009 NE	LODE CLAIM	NEUTRON 430	38469	ACTIVE	LITHIUM NEVADA CORP
NMC900252	NMC900094	21 0440N 0350E 009 NE	LODE CLAIM	NEUTRON 379	38470	ACTIVE	LITHIUM NEVADA CORP
NMC900254	NMC900094	21 0440N 0350E 009 NE	LODE CLAIM	NEUTRON 381	38470	ACTIVE	LITHIUM NEVADA CORP
NMC900300	NMC900094	21 0440N 0350E 009 NW	LODE CLAIM	NEUTRON 427	38469	ACTIVE	LITHIUM NEVADA CORP
NMC982486	NMC982465	21 0440N 0350E 009 NE, NW	LODE CLAIM	NEUTRON 607	39465	ACTIVE	LITHIUM NEVADA CORP

NMC982489	NMC982465	21 0440N 0350E 009 NE	LODE CLAIM	NEUTRON 610	39465	ACTIVE	LITHIUM NEVADA CORP
NMC982492	NMC982465	21 0440N 0350E 009 NE	LODE CLAIM	NEUTRON 613	39465	ACTIVE	LITHIUM NEVADA CORP

Clay Tailings Filter Stack

Legacy Serial Number	Legacy Lead File Number	LLD	Claim Type	Claim Name	Date of Location	Case Disposition	Claimant
NMC1019412	NMC1018964	21 0440N 0350E 002 NW	LODE CLAIM	BPE 449	40135	ACTIVE	LITHIUM NEVADA CORP
NMC1019413	NMC1018964	21 0440N 0350E 002 NW, SW	LODE CLAIM	BPE 450	40135	ACTIVE	LITHIUM NEVADA CORP
NMC1019414	NMC1018964	21 0440N 0350E 002 SW	LODE CLAIM	BPE 451	40135	ACTIVE	LITHIUM NEVADA CORP
NMC1019415	NMC1018964	21 0440N 0350E 002 SW	LODE CLAIM	BPE 452	40135	ACTIVE	LITHIUM NEVADA CORP
NMC1030223	NMC1030193	21 0440N 0350E 002 NE, NW	LODE CLAIM	BPE 529	40424	ACTIVE	LITHIUM NEVADA CORP
NMC919362	NMC919267	21 0440N 0350E 002 SE	LODE CLAIM	NEUTRON 186	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919364	NMC919267	21 0440N 0350E 002 SE	LODE CLAIM	NEUTRON 188	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919302	NMC919267	21 0440N 0350E 002 SW	LODE CLAIM	NEUTRON 96	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919303	NMC919267	21 0440N 0350E 002 SE	LODE CLAIM	NEUTRON 97	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919304	NMC919267	21 0440N 0350E 002 SW	LODE CLAIM	NEUTRON 98	38659	ACTIVE	LITHIUM NEVADA CORP
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NMC919306	NMC919267	21 0440N 0350E 002 SW	LODE CLAIM	NEUTRON 100	38659	ACTIVE	LITHIUM NEVADA CORP
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NMC919310	NMC919267	21 0440N 0350E 002 NW, SW	LODE CLAIM	NEUTRON 104	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919311	NMC919267	21 0440N 0350E 002 NE, SE	LODE CLAIM	NEUTRON 105	38659	ACTIVE	LITHIUM NEVADA CORP
NMC982505	NMC982465	21 0440N 0350E 002 SW	LODE CLAIM	NEUTRON 626	39465	ACTIVE	LITHIUM NEVADA CORP
NMC982506	NMC982465	21 0440N 0350E 002 SW	LODE CLAIM	NEUTRON 627	39465	ACTIVE	LITHIUM NEVADA CORP
NMC982502	NMC982465	21 0440N 0350E 003 SE	LODE CLAIM	NEUTRON 623	39465	ACTIVE	LITHIUM NEVADA CORP
NMC1020688	NMC1020688	21 0440N 0350E 010 NE	LODE CLAIM	NEUTRON PLUS 1	40137	ACTIVE	LITHIUM NEVADA CORP
NMC900227	NMC900094	21 0440N 0350E 010 NE	LODE CLAIM	NEUTRON 354	38470	ACTIVE	LITHIUM NEVADA CORP
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NMC919267	NMC919267	21 0440N 0350E 015 NE	LODE CLAIM	NEUTRON 31	38658	ACTIVE	LITHIUM NEVADA CORP
NMC919268	NMC919267	21 0440N 0350E 014 NW	LODE CLAIM	NEUTRON 32	38658	ACTIVE	LITHIUM NEVADA CORP
NMC919282	NMC919267	21 0440N 0350E 014 NW	LODE CLAIM	NEUTRON 76	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919283	NMC919267	21 0440N 0350E 014 NE	LODE CLAIM	NEUTRON 77	38659	ACTIVE	LITHIUM NEVADA CORP
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NMC919343	NMC919267	21 0440N 0350E 013 NW	LODE CLAIM	NEUTRON 167	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919357	NMC919267	21 0440N 0350E 012 NW	LODE CLAIM	NEUTRON 181	38659	ACTIVE	LITHIUM NEVADA CORP
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NMC919352	NMC919267	21 0440N 0350E 011 NE, SE	LODE CLAIM	NEUTRON 176	38659	ACTIVE	LITHIUM NEVADA CORP
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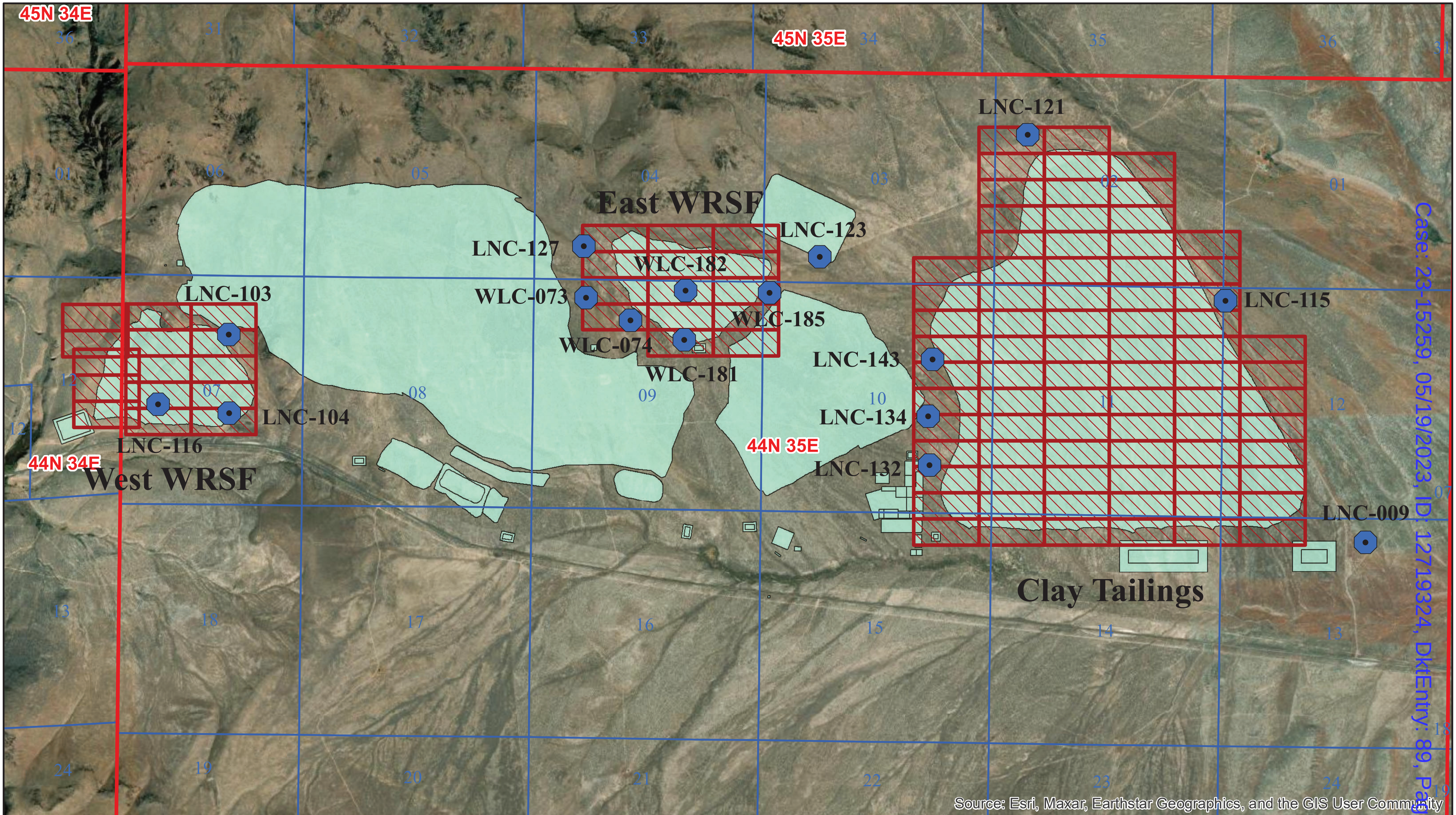
NMC919356	NMC919267	23 0440N 0350E 011 NE	LODE CLAIM	NEUTRON 180	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919358	NMC919267	24 0440N 0350E 011 NE	LODE CLAIM	NEUTRON 182	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919360	NMC919267	25 0440N 0350E 011 NE	LODE CLAIM	NEUTRON 184	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919270	NMC919267	26 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 34	38658	ACTIVE	LITHIUM NEVADA CORP
NMC919272	NMC919267	27 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 36	38658	ACTIVE	LITHIUM NEVADA CORP
NMC919274	NMC919267	28 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 38	38658	ACTIVE	LITHIUM NEVADA CORP
NMC919276	NMC919267	29 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 40	38677	ACTIVE	LITHIUM NEVADA CORP
NMC919278	NMC919267	30 0440N 0350E 011 NW, SW	LODE CLAIM	NEUTRON 42	38658	ACTIVE	LITHIUM NEVADA CORP
NMC919279	NMC919267	31 0440N 0350E 011 NW	LODE CLAIM	NEUTRON 43	38658	ACTIVE	LITHIUM NEVADA CORP
NMC919280	NMC919267	32 0440N 0350E 011 NW	LODE CLAIM	NEUTRON 44	38658	ACTIVE	LITHIUM NEVADA CORP
NMC919281	NMC919267	33 0440N 0350E 011 NW	LODE CLAIM	NEUTRON 45	38658	ACTIVE	LITHIUM NEVADA CORP

NMC919284	NMC919267	34 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 78	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919285	NMC919267	35 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 79	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919286	NMC919267	36 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 80	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919287	NMC919267	37 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 81	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919288	NMC919267	38 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 82	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919289	NMC919267	39 0440N 0350E 011 SE	LODE CLAIM	NEUTRON 83	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919290	NMC919267	40 0440N 0350E 011 SW	LODE CLAIM	NEUTRON 84	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919291	NMC919267	41 0440N 0350E 011 SE	LODE CLAIM	NEUTRON 85	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919292	NMC919267	42 0440N 0350E 011 NW, SW	LODE CLAIM	NEUTRON 86	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919293	NMC919267	43 0440N 0350E 011 NE, SE	LODE CLAIM	NEUTRON 87	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919294	NMC919267	44 0440N 0350E 011 NW	LODE CLAIM	NEUTRON 88	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919295	NMC919267	45 0440N 0350E 011 NE	LODE CLAIM	NEUTRON 89	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919296	NMC919267	46 0440N 0350E 011 NW	LODE CLAIM	NEUTRON 90	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919297	NMC919267	47 0440N 0350E 011 NE	LODE CLAIM	NEUTRON 91	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919298	NMC919267	48 0440N 0350E 011 NW	LODE CLAIM	NEUTRON 92	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919299	NMC919267	49 0440N 0350E 011 NE	LODE CLAIM	NEUTRON 93	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919300	NMC919267	50 0440N 0350E 011 NW	LODE CLAIM	NEUTRON 94	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919301	NMC919267	51 0440N 0350E 011 NE	LODE CLAIM	NEUTRON 95	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919344	NMC919267	52 0440N 0350E 011 SE	LODE CLAIM	NEUTRON 168	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919346	NMC919267	53 0440N 0350E 011 SE	LODE CLAIM	NEUTRON 170	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919348	NMC919267	54 0440N 0350E 011 SE	LODE CLAIM	NEUTRON 172	38659	ACTIVE	LITHIUM NEVADA CORP
NMC919350	NMC919267	55 0440N 0350E 011 SE	LODE CLAIM	NEUTRON 174	38659	ACTIVE	LITHIUM NEVADA CORP
NMC982504	NMC982465	56 0440N 0350E 011 NW	LODE CLAIM	NEUTRON 625	39465	ACTIVE	LITHIUM NEVADA CORP

Appendix B

Maps of the Subject Claims



Lithium Nevada Mining Claims Map with Drill Hole Locations 1 of 4

Date: 5/10/2023

Legend

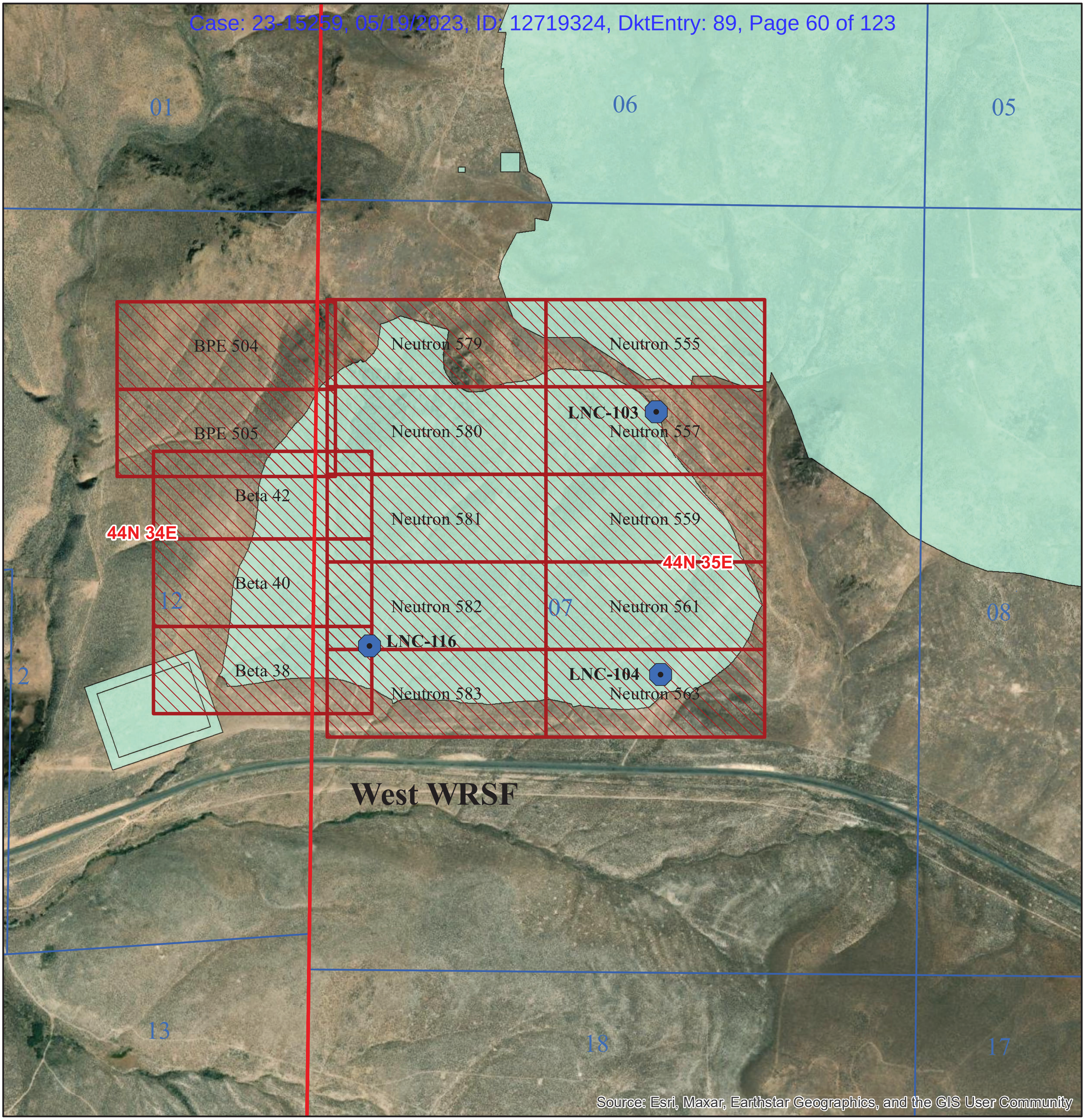
- Township
- Section
- **Mining Claims** — **TYPE**: Lode, Millsite, Other, Placer
- Thacker Facilities
- Drill Hole

NATIONAL SYSTEM OF PUBLIC LANDS

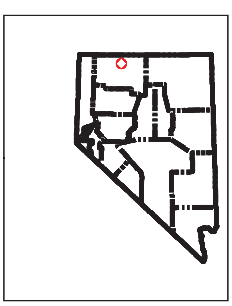
0 — 3,050 — 6,100 — 12,200 — 18,300 — 24,400 Feet

N S E W

No warranty is made by the Bureau of Land Management as to the accuracy, reliability or completeness of these data for individual use or aggregate use with other data.



Lithium Nevada Mining Claims Map with Drill Hole Locations 2 of 4



Legend

Township
Section

Mining Claims

TYPE

Lode
Millsite
Other
Placer

Thacker Facilities

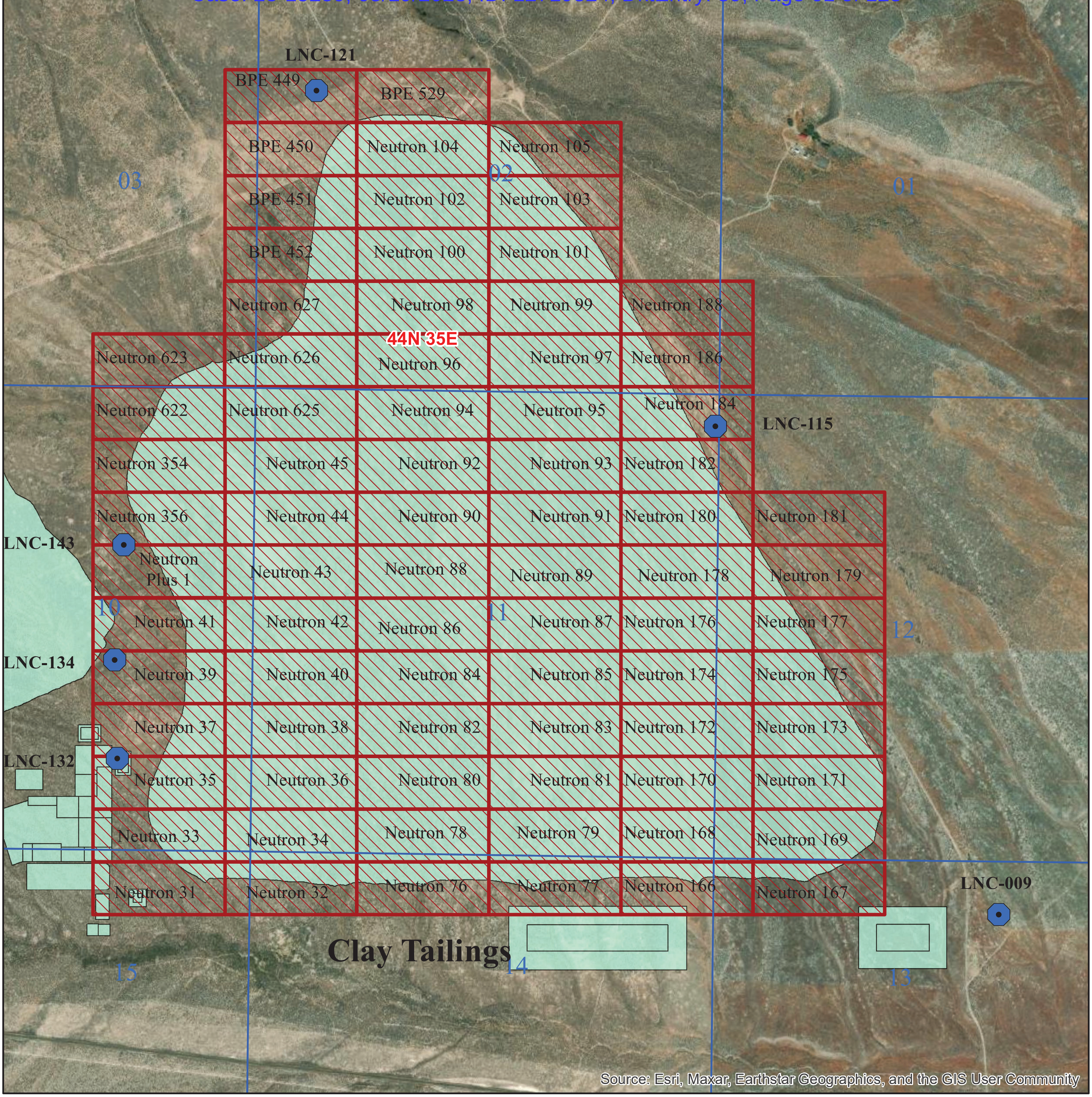
Drill Hole

Date: 5/10/2023

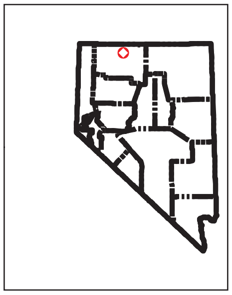
N
W E
S

0 600 1,200 2,400 3,600 4,800 Feet

No warranty is made by the Bureau of Land Management as to the accuracy, reliability or completeness of these data for individual use or aggregate use with other data.



Lithium Nevada Mining Claims Map with Drill Hole Locations 3 of 4



Date: 5/10/2023

Legend

Township
Section

Mining Claims

TYPE

Lode
Millsite
Other
Placer

Thacker Facilities

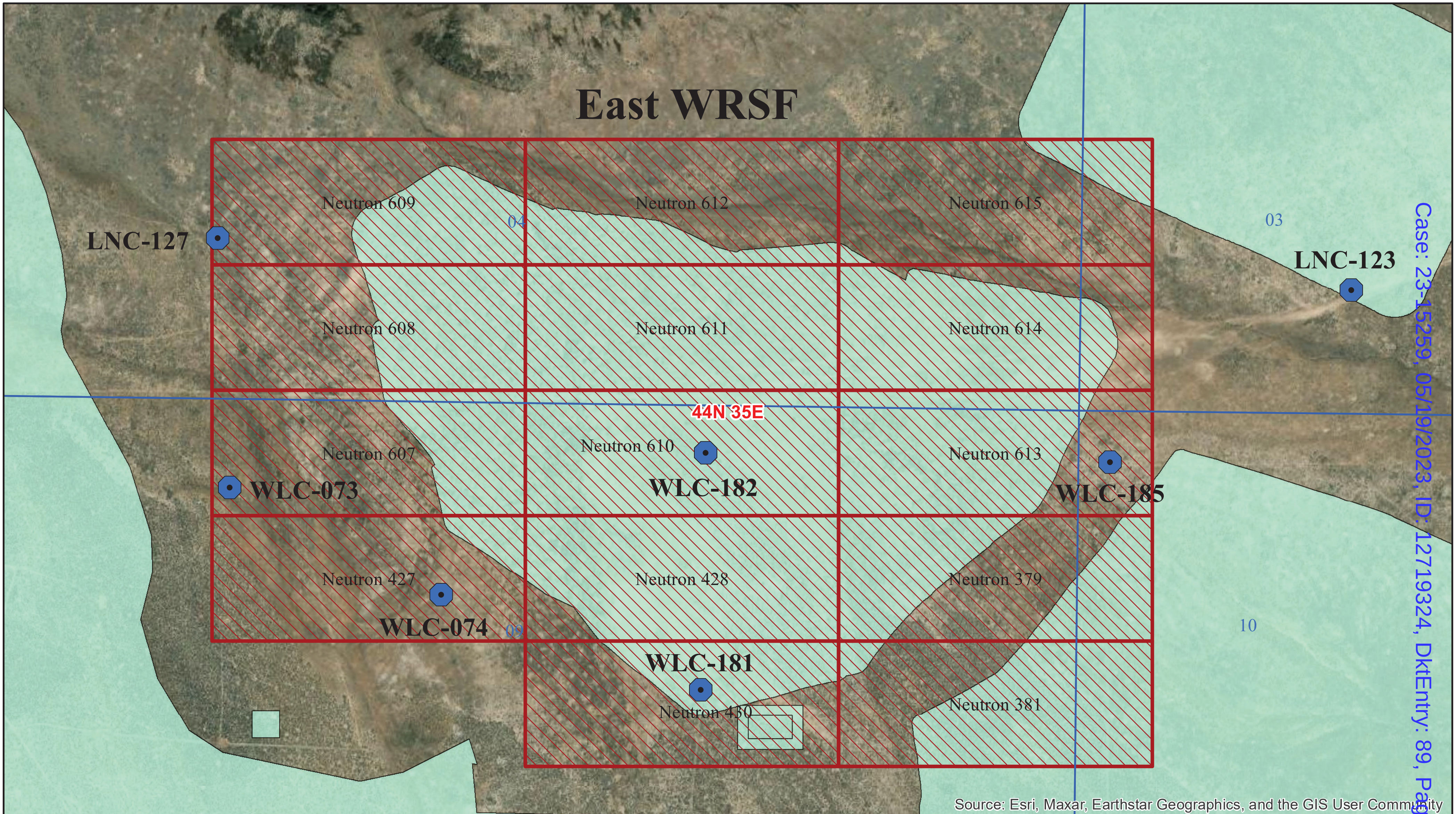
Drill Hole

NATIONAL SYSTEM OF PUBLIC LANDS

N
W E
S

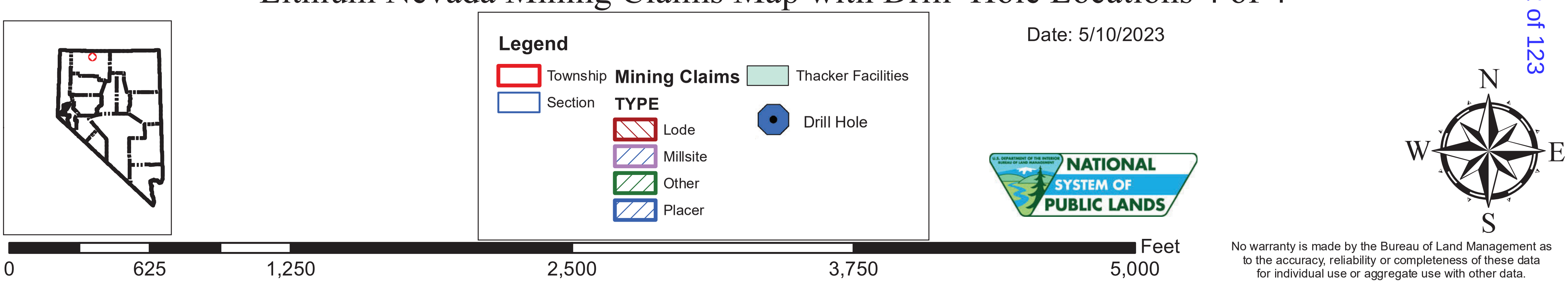
0 1,000 2,000 4,000 6,000 8,000 Feet

No warranty is made by the Bureau of Land Management as to the accuracy, reliability or completeness of these data for individual use or aggregate use with other data.



Lithium Nevada Mining Claims Map with Drill Hole Locations 4 of 4

Date: 5/10/2023



No warranty is made by the Bureau of Land Management as to the accuracy, reliability or completeness of these data for individual use or aggregate use with other data.

Appendix C

West WRSF Lithium Drill Results

West Waste Rock Facility Drillhole Data					
Drill Hole	**Sample Name**	**From**	**To**	**Interval Length**	**Li_Best_ppm**
LNC-103	LNC-103_4_9.7	1.22	2.96	1.74	26.7
LNC-103	LNC-103_9.7_15	2.96	4.57	1.61	16.5
LNC-103	LNC-103_15_21.6	4.57	6.58	2.01	17.2
LNC-103	LNC-103_21.6_24.7	6.58	7.53	0.95	18.9
LNC-103	LNC-103_24.7_29.4	7.53	8.96	1.43	25.5
LNC-103	LNC-103_29.4_34.4	8.96	10.49	1.53	44.3
LNC-103	LNC-103_34.4_37.1	10.49	11.31	0.82	46.9
LNC-103	LNC-103_37.1_39.1	11.31	11.92	0.61	32.3
LNC-103	LNC-103_39.1_43.1	11.92	13.14	1.22	30.4
LNC-103	LNC-103_43.1_45.4	13.14	13.84	0.7	43.5
LNC-103	LNC-103_45.4_50	13.84	15.24	1.4	30.8
LNC-103	LNC-103_50_55.5	15.24	16.92	1.68	21.2
LNC-103	LNC-103_55.5_59.4	16.92	18.11	1.19	24.9
LNC-103	LNC-103_59.4_61.5	18.11	18.75	0.64	25.2
LNC-103	LNC-103_61.5_66.5	18.75	20.27	1.52	76.8
LNC-103	LNC-103_66.5_69.1	20.27	21.06	0.79	61.7
LNC-103	LNC-103_69.1_77.7	21.06	23.68	2.62	82.8
LNC-103	LNC-103_77.7_81.3	23.68	24.78	1.1	73.7
LNC-103	LNC-103_81.3_85.2	24.78	25.97	1.19	70.2
LNC-103	LNC-103_85.2_90.8	25.97	27.68	1.71	38.8
LNC-103	LNC-103_90.8_93.8	27.68	28.59	0.91	71.8
LNC-103	LNC-103_93.8_98.8	28.59	30.11	1.52	62.8
LNC-103	LNC-103_98.8_103.5	30.11	31.55	1.44	83.9
LNC-103	LNC-103_103.5_110	31.55	33.53	1.98	71.9
LNC-103	LNC-103_110_114.7	33.53	34.96	1.43	43.5
LNC-103	LNC-103_114.7_122.8	34.96	37.43	2.47	18.3
LNC-103	LNC-103_122.8_130.2	37.43	39.68	2.25	20.5
LNC-103	LNC-103_130.2_138.2	39.68	42.12	2.44	17.5
LNC-103	LNC-103_138.2_146.6	42.12	44.68	2.56	21.8
LNC-103	LNC-103_146.6_157	44.68	47.85	3.17	23.3
LNC-103	LNC-103_157_166.8	47.85	50.84	2.99	19.9
LNC-103	LNC-103_166.8_172.6	50.84	52.61	1.77	33.2
LNC-103	LNC-103_172.6_181.9	52.61	55.44	2.83	14.7
LNC-103	LNC-103_181.9_192	55.44	58.52	3.08	11.5
LNC-103	LNC-103_192_196.5	58.52	59.89	1.37	14.6
LNC-103	LNC-103_196.5_203.1	59.89	61.9	2.01	50
LNC-103	LNC-103_203.1_208.8	61.9	63.64	1.74	37.5
LNC-103	LNC-103_208.8_217	63.64	66.14	2.5	47.4
LNC-103	LNC-103_217_226.7	66.14	69.1	2.96	17.8
LNC-103	LNC-103_226.7_236.7	69.1	72.15	3.05	20.6
LNC-103	LNC-103_236.7_242.3	72.15	73.85	1.7	17.5
LNC-103	LNC-103_242.3_252.1	73.85	76.84	2.99	16.7
LNC-103	LNC-103_252.1_256.4	76.84	78.15	1.31	12.2
LNC-103	LNC-103_256.4_262	78.15	79.86	1.71	16.2
LNC-103	LNC-103_262_272	79.86	82.91	3.05	22.7

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-103	LNC-103_272_276.1	82.91	84.16	1.25	52.8
LNC-103	LNC-103_276.1_285.8	84.16	87.11	2.95	45.2
LNC-103	LNC-103_285.8_293.5	87.11	89.46	2.35	44.2
LNC-103	LNC-103_293.5_298.7	89.46	91.04	1.58	54
LNC-103	LNC-103_298.7_310.5	91.04	94.64	3.6	35.3
LNC-103	LNC-103_310.5_315.5	94.64	96.16	1.52	45
LNC-103	LNC-103_315.5_325.2	96.16	99.12	2.96	24.1
LNC-103	LNC-103_325.2_335.2	99.12	102.17	3.05	23.2
LNC-103	LNC-103_335.2_345.7	102.17	105.37	3.2	18
LNC-103	LNC-103_345.7_355	105.37	108.2	2.83	15
LNC-103	LNC-103_355_364	108.2	110.95	2.75	13
LNC-103	LNC-103_364_374	110.95	114	3.05	9.5
LNC-103	LNC-103_374_384	114	117.04	3.04	12.9
LNC-103	LNC-103_384_394	117.04	120.09	3.05	13.7
LNC-103	LNC-103_394_404	120.09	123.14	3.05	12.9
LNC-103	LNC-103_404_413.8	123.14	126.13	2.99	7.9
LNC-103	LNC-103_413.8_418.1	126.13	127.44	1.31	18.4
LNC-103	LNC-103_418.1_421.6	127.44	128.5	1.06	15.5
LNC-103	LNC-103_421.6_432.5	128.5	131.83	3.33	15.8
LNC-103	LNC-103_432.5_442.3	131.83	134.81	2.98	22.2
LNC-103	LNC-103_442.3_448.4	134.81	136.67	1.86	14.5
LNC-103	LNC-103_448.4_458.1	136.67	139.63	2.96	20.8
LNC-103	LNC-103_458.1_468.1	139.63	142.68	3.05	22.1
LNC-103	LNC-103_468.1_478	142.68	145.69	3.01	16.4
LNC-103	LNC-103_478_485.3	145.69	147.92	2.23	26.1
LNC-103	LNC-103_485.3_495.6	147.92	151.06	3.14	29.3
LNC-103	LNC-103_495.6_504	151.06	153.62	2.56	15.6
LNC-103	LNC-103_504_513.3	153.62	156.45	2.83	24.3
LNC-103	LNC-103_513.3_523.2	156.45	159.47	3.02	36.6
LNC-103	LNC-103_523.2_531.4	159.47	161.97	2.5	15.5
LNC-103	LNC-103_531.4_541	161.97	164.9	2.93	12.4
LNC-103	LNC-103_541_548.7	164.9	167.24	2.34	14.9
LNC-103	LNC-103_548.7_558	167.24	170.08	2.84	21.5
LNC-103	LNC-103_558_568	170.08	173.13	3.05	21.1
LNC-103	LNC-103_568_581.3	173.13	177.18	4.05	26.7
LNC-103	LNC-103_581.3_585.6	177.18	178.49	1.31	15.5
LNC-103	LNC-103_585.6_595.6	178.49	181.54	3.05	33.2
LNC-103	LNC-103_595.6_600	181.54	182.88	1.34	32.3
LNC-104	LNC-104_0_8	0	2.44	2.44	490
LNC-104	LNC-104_8_14.4	2.44	4.39	1.95	820
LNC-104	LNC-104_14.4_18	4.39	5.49	1.1	4610
LNC-104	LNC-104_18_22.7	5.49	6.92	1.43	1260
LNC-104	LNC-104_22.7_27.7	6.92	8.44	1.52	4370
LNC-104	LNC-104_27.7_32.7	8.44	9.97	1.53	1570
LNC-104	LNC-104_32.7_37.8	9.97	11.52	1.55	1980

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-104	LNC-104_37.8_42.4	11.52	12.92	1.4	800
LNC-104	LNC-104_42.4_44.4	12.92	13.53	0.61	104.5
LNC-104	LNC-104_44.4_50.4	13.53	15.36	1.83	2110
LNC-104	LNC-104_50.4_54.4	15.36	16.58	1.22	1430
LNC-104	LNC-104_54.4_59	16.58	17.98	1.4	610
LNC-104	LNC-104_59_63.4	17.98	19.32	1.34	640
LNC-104	LNC-104_63.4_68.2	19.32	20.79	1.47	510
LNC-104	LNC-104_68.2_73	20.79	22.25	1.46	1340
LNC-104	LNC-104_73_78	22.25	23.77	1.52	229
LNC-104	LNC-104_78_83	23.77	25.3	1.53	112.5
LNC-104	LNC-104_83_85.1	25.3	25.94	0.64	111.5
LNC-104	LNC-104_85.1_96.8	25.94	29.5	3.56	112.5
LNC-104	LNC-104_96.8_103.4	29.5	31.52	2.02	144
LNC-104	LNC-104_103.4_110.5	31.52	33.68	2.16	191
LNC-104	LNC-104_110.5_116.5	33.68	35.51	1.83	850
LNC-104	LNC-104_116.5_121.2	35.51	36.94	1.43	283
LNC-104	LNC-104_121.2_126.2	36.94	38.47	1.53	446
LNC-104	LNC-104_126.2_127.9	38.47	38.98	0.51	314
LNC-104	LNC-104_127.9_135.6	38.98	41.33	2.35	63.7
LNC-104	LNC-104_135.6_140	41.33	42.67	1.34	720
LNC-104	LNC-104_140_145	42.67	44.2	1.53	2940
LNC-104	LNC-104_145_151.5	44.2	46.18	1.98	3200
LNC-104	LNC-104_151.5_162.9	46.18	49.65	3.47	199
LNC-104	LNC-104_162.9_166.8	49.65	50.84	1.19	1690
LNC-104	LNC-104_166.8_170	50.84	51.82	0.98	303
LNC-104	LNC-104_170_175.6	51.82	53.52	1.7	2180
LNC-104	LNC-104_175.6_180.3	53.52	54.96	1.44	2070
LNC-104	LNC-104_180.3_184.4	54.96	56.21	1.25	1940
LNC-104	LNC-104_184.4_188.3	56.21	57.39	1.18	2200
LNC-104	LNC-104_188.3_193.3	57.39	58.92	1.53	1950
LNC-104	LNC-104_193.3_200	58.92	60.96	2.04	2510
LNC-104	LNC-104_200_205	60.96	62.48	1.52	1430
LNC-104	LNC-104_205_210	62.48	64.01	1.53	1020
LNC-104	LNC-104_210_215	64.01	65.53	1.52	2790
LNC-104	LNC-104_215_219.7	65.53	66.96	1.43	2400
LNC-104	LNC-104_219.7_223.2	66.96	68.03	1.07	3530
LNC-104	LNC-104_223.2_226.9	68.03	69.16	1.13	730
LNC-104	LNC-104_226.9_234.7	69.16	71.54	2.38	2590
LNC-104	LNC-104_234.7_239.4	71.54	72.97	1.43	3110
LNC-104	LNC-104_239.4_244.4	72.97	74.49	1.52	2170
LNC-104	LNC-104_244.4_249.4	74.49	76.02	1.53	2700
LNC-104	LNC-104_249.4_254.7	76.02	77.63	1.61	3060
LNC-104	LNC-104_254.7_256.7	77.63	78.24	0.61	3050
LNC-104	LNC-104_256.7_260.1	78.24	79.28	1.04	2130
LNC-104	LNC-104_260.1_265.6	79.28	80.95	1.67	3100
LNC-104	LNC-104_265.6_273.3	80.95	83.3	2.35	2370

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-104	LNC-104_273.3_278.8	83.3	84.98	1.68	5870
LNC-104	LNC-104_278.8_283.8	84.98	86.5	1.52	5130
LNC-104	LNC-104_283.8_289.1	86.5	88.12	1.62	3720
LNC-104	LNC-104_289.1_296.6	88.12	90.4	2.28	4250
LNC-104	LNC-104_296.6_309.3	90.4	94.27	3.87	580
LNC-104	LNC-104_309.3_320.2	94.27	97.6	3.33	284
LNC-104	LNC-104_320.2_324.6	97.6	98.94	1.34	2320
LNC-104	LNC-104_324.6_333.2	98.94	101.56	2.62	670
LNC-104	LNC-104_333.2_337.9	101.56	102.99	1.43	1890
LNC-104	LNC-104_337.9_344.5	102.99	105	2.01	2010
LNC-104	LNC-104_344.5_349.9	105	106.65	1.65	264
LNC-104	LNC-104_349.9_357.6	106.65	109	2.35	308
LNC-104	LNC-104_357.6_365	109	111.25	2.25	197.5
LNC-104	LNC-104_365_372.8	111.25	113.63	2.38	650
LNC-104	LNC-104_372.8_379.7	113.63	115.73	2.1	303
LNC-104	LNC-104_379.7_384.5	115.73	117.2	1.47	4150
LNC-104	LNC-104_384.5_390	117.2	118.87	1.67	1210
LNC-104	LNC-104_390_395.3	118.87	120.49	1.62	570
LNC-104	LNC-104_395.3_401	120.49	122.22	1.73	670
LNC-104	LNC-104_401_406.1	122.22	123.78	1.56	1580
LNC-104	LNC-104_406.1_411.5	123.78	125.43	1.65	950
LNC-104	LNC-104_411.5_416.7	125.43	127.01	1.58	3710
LNC-104	LNC-104_416.7_422	127.01	128.63	1.62	3860
LNC-104	LNC-104_422_427	128.63	130.15	1.52	3960
LNC-104	LNC-104_427_432	130.15	131.67	1.52	2400
LNC-104	LNC-104_432_438	131.67	133.5	1.83	1580
LNC-104	LNC-104_438_440	133.5	134.11	0.61	268
LNC-104	LNC-104_440_444.2	134.11	135.39	1.28	54.5
LNC-104	LNC-104_444.2_449.4	135.39	136.98	1.59	24.7
LNC-104	LNC-104_449.4_454.4	136.98	138.5	1.52	13.6
LNC-104	LNC-104_454.4_459.6	138.5	140.09	1.59	23.9
LNC-104	LNC-104_459.6_464.6	140.09	141.61	1.52	17.2
LNC-104	LNC-104_464.6_469.6	141.61	143.13	1.52	18.7
LNC-104	LNC-104_469.6_474.8	143.13	144.72	1.59	28.7
LNC-104	LNC-104_474.8_480	144.72	146.3	1.58	29.5
LNC-104	LNC-104_480_484.8	146.3	147.77	1.47	32.9
LNC-104	LNC-104_484.8_490	147.77	149.35	1.58	30.1
LNC-104	LNC-104_490_495.5	149.35	151.03	1.68	26.7
LNC-104	LNC-104_495.5_500.5	151.03	152.55	1.52	27.6
LNC-116	LNC-116_0_6	0	1.83	1.83	1720
LNC-116	LNC-116_6_13	1.83	3.96	2.13	5290
LNC-116	LNC-116_13_17.8	3.96	5.43	1.47	4530
LNC-116	LNC-116_17.8_22.8	5.43	6.95	1.52	960
LNC-116	LNC-116_22.8_25.5	6.95	7.77	0.82	3250
LNC-116	LNC-116_25.5_33.1	7.77	10.09	2.32	4480

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-116	LNC-116_33.1_40.5	10.09	12.34	2.25	540
LNC-116	LNC-116_40.5_48.1	12.34	14.66	2.32	520
LNC-116	LNC-116_48.1_64.7	14.66	19.72	5.06	1550
LNC-116	LNC-116_64.7_72.5	19.72	22.1	2.38	920
LNC-116	LNC-116_72.5_77.6	22.1	23.65	1.55	3150
LNC-116	LNC-116_77.6_85.2	23.65	25.97	2.32	910
LNC-116	LNC-116_85.2_90.2	25.97	27.49	1.52	3500
LNC-116	LNC-116_90.2_95.2	27.49	29.02	1.53	3690
LNC-116	LNC-116_95.2_100.4	29.02	30.6	1.58	1490
LNC-116	LNC-116_100.4_105.8	30.6	32.25	1.65	1360
LNC-116	LNC-116_105.8_115.3	32.25	35.14	2.89	106
LNC-116	LNC-116_115.3_125.3	35.14	38.19	3.05	41.4
LNC-116	LNC-116_125.3_135.3	38.19	41.24	3.05	32.3
LNC-116	LNC-116_135.3_145.3	41.24	44.29	3.05	36.5
LNC-116	LNC-116_145.3_155.3	44.29	47.34	3.05	32.2
LNC-116	LNC-116_155.3_165.3	47.34	50.38	3.04	33.5
LNC-116	LNC-116_165.3_175.3	50.38	53.43	3.05	23.1
LNC-116	LNC-116_175.3_185.3	53.43	56.48	3.05	14.2
LNC-116	LNC-116_185.3_195.3	56.48	59.53	3.05	24.5
LNC-116	LNC-116_195.3_199.9	59.53	60.93	1.4	14.4
LNC-116	LNC-116_199.9_202.2	60.93	61.63	0.7	4
LNC-116	LNC-116_202.2_210.2	61.63	64.07	2.44	28.2
LNC-116	LNC-116_210.2_214.1	64.07	65.26	1.19	28
LNC-116	LNC-116_214.1_224.1	65.26	68.31	3.05	12
LNC-116	LNC-116_224.1_234.1	68.31	71.35	3.04	23
LNC-116	LNC-116_234.1_244.1	71.35	74.4	3.05	31.4
LNC-116	LNC-116_244.1_252.5	74.4	76.96	2.56	45.8
LNC-116	LNC-116_252.5_262.5	76.96	80.01	3.05	14.5
LNC-116	LNC-116_262.5_272.5	80.01	83.06	3.05	35.5
LNC-116	LNC-116_272.5_278.3	83.06	84.83	1.77	38.2
LNC-116	LNC-116_278.3_285.7	84.83	87.08	2.25	28.5
LNC-116	LNC-116_285.7_295.7	87.08	90.13	3.05	22.6
LNC-116	LNC-116_295.7_300.8	90.13	91.68	1.55	30.1
LNC-116	LNC-116_300.8_310.8	91.68	94.73	3.05	32.1
LNC-116	LNC-116_310.8_319.8	94.73	97.48	2.75	41.5
LNC-116	LNC-116_319.8_325	97.48	99.06	1.58	37.1
LNC-116	LNC-116_325_335	99.06	102.11	3.05	31.1
LNC-116	LNC-116_335_344.5	102.11	105	2.89	26.6
LNC-116	LNC-116_344.5_354.5	105	108.05	3.05	44.4
LNC-116	LNC-116_354.5_364.5	108.05	111.1	3.05	47.3
LNC-116	LNC-116_364.5_374.2	111.1	114.06	2.96	49.5
LNC-116	LNC-116_374.2_383.9	114.06	117.01	2.95	45
LNC-116	LNC-116_383.9_391.7	117.01	119.39	2.38	25.8
LNC-116	LNC-116_391.7_401.7	119.39	122.44	3.05	18.7
LNC-116	LNC-116_401.7_410.5	122.44	125.12	2.68	16.4
LNC-116	LNC-116_410.5_413.5	125.12	126.03	0.91	18.2

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-116	LNC-116_413.5_422.8	126.03	128.87	2.84	24.8
LNC-116	LNC-116_422.8_431.1	128.87	131.4	2.53	15
LNC-116	LNC-116_431.1_438.4	131.4	133.62	2.22	13.5
LNC-116	LNC-116_438.4_448.4	133.62	136.67	3.05	16.6
LNC-116	LNC-116_448.4_452.4	136.67	137.89	1.22	18.1
LNC-116	LNC-116_452.4_458.1	137.89	139.63	1.74	14.1
LNC-116	LNC-116_458.1_463.1	139.63	141.15	1.52	12.6
LNC-116	LNC-116_463.1_473.1	141.15	144.2	3.05	15.5
LNC-116	LNC-116_473.1_482.8	144.2	147.16	2.96	19
LNC-116	LNC-116_482.8_489.8	147.16	149.29	2.13	19.5
LNC-116	LNC-116_489.8_499.8	149.29	152.34	3.05	16.2
LNC-116	LNC-116_499.8_509.8	152.34	155.39	3.05	17.9
LNC-116	LNC-116_509.8_520	155.39	158.5	3.11	26.1

Appendix D

West WRSF Drill Hole Lithology

West Waste Rock Storage Facility Lithology							
Drill Hole	**Sample Name**	**From**	**To**	**Interval Length**	**From (ft)**	**To (ft)**	**Lithology**
LNC-103	LNC-103_4_9.7	1.22	2.96	1.74	4	9.7	Ash
LNC-103	LNC-103_9.7_15	2.96	4.57	1.61	9.7	15	Volcanic Seds
LNC-103	LNC-103_15_21.5	4.57	6.55	1.98	15	21.5	Volcanic Seds
LNC-103	LNC-103_21.5_24.7	6.55	7.53	0.98	21.5	24.7	Volcanic Seds
LNC-103	LNC-103_24.7_29.4	7.53	8.96	1.43	24.7	29.4	Volcanic Seds
LNC-103	LNC-103_29.4_34.4	8.96	10.49	1.53	29.4	34.4	Volcanic Seds
LNC-103	LNC-103_34.4_37.1	10.49	11.31	0.82	34.4	37.1	Clay
LNC-103	LNC-103_37.1_39.1	11.31	11.92	0.61	37.1	39.1	Volcanic Seds
LNC-103	LNC-103_39.1_43.1	11.92	13.14	1.22	39.1	43.1	Volcanic Seds
LNC-103	LNC-103_43.1_45.4	13.14	13.84	0.7	43.1	45.4	Volcanic Seds
LNC-103	LNC-103_45.4_50	13.84	15.24	1.4	45.4	50	Volcanic Seds
LNC-103	LNC-103_50_55.5	15.24	16.92	1.68	50	55.5	Lithic Tuff
LNC-103	LNC-103_55.5_59.4	16.92	18.11	1.19	55.5	59.4	Lithic Tuff
LNC-103	LNC-103_59.4_61.5	18.11	18.75	0.64	59.4	61.5	Lithic Tuff
LNC-103	LNC-103_61.5_66.5	18.75	20.27	1.52	61.5	66.5	Lithic Tuff
LNC-103	LNC-103_66.5_69.1	20.27	21.06	0.79	66.5	69.1	Lithic Tuff
LNC-103	LNC-103_69.1_77.1	21.06	23.5	2.44	69.1	77.1	Lithic Tuff
LNC-103	LNC-103_77.1_81.3	23.5	24.78	1.28	77.1	81.3	Lithic Tuff
LNC-103	LNC-103_81.3_85.2	24.78	25.97	1.19	81.3	85.2	Lithic Tuff
LNC-103	LNC-103_85.2_90.8	25.97	27.68	1.71	85.2	90.8	Lithic Tuff
LNC-103	LNC-103_90.8_93.8	27.68	28.59	0.91	90.8	93.8	Fault
LNC-103	LNC-103_93.8_98.8	28.59	30.11	1.52	93.8	98.8	Lithic Tuff
LNC-103	LNC-103_98.8_103.5	30.11	31.55	1.44	98.8	103.5	Lithic Tuff
LNC-103	LNC-103_103.5_110	31.55	33.53	1.98	103.5	110	Lithic Tuff
LNC-103	LNC-103_110_114.7	33.53	34.96	1.43	110	114.7	Lithic Tuff
LNC-103	LNC-103_114.7_122.8	34.96	37.43	2.47	114.7	122.8	RheomorphTuff
LNC-103	LNC-103_122.8_130.2	37.43	39.68	2.25	122.8	130.2	RheomorphTuff
LNC-103	LNC-103_130.2_138.2	39.68	42.12	2.44	130.2	138.2	RheomorphTuff
LNC-103	LNC-103_138.2_146.6	42.12	44.68	2.56	138.2	146.6	RheomorphTuff
LNC-103	LNC-103_146.6_157	44.68	47.85	3.17	146.6	157	RheomorphTuff
LNC-103	LNC-103_157_166.8	47.85	50.84	2.99	157	166.8	RheomorphTuff
LNC-103	LNC-103_166.8_172.6	50.84	52.61	1.77	166.8	172.6	RheomorphTuff
LNC-103	LNC-103_172.6_181.9	52.61	55.44	2.83	172.6	181.9	RheomorphTuff
LNC-103	LNC-103_181.9_192	55.44	58.52	3.08	181.9	192	RheomorphTuff
LNC-103	LNC-103_192_196.5	58.52	59.89	1.37	192	196.5	RheomorphTuff
LNC-103	LNC-103_196.5_203	59.89	61.87	1.98	196.5	203	RheomorphTuff
LNC-103	LNC-103_203_208.8	61.87	63.64	1.77	203	208.8	RheomorphTuff
LNC-103	LNC-103_208.8_217	63.64	66.14	2.5	208.8	217	RheomorphTuff
LNC-103	LNC-103_217_226.7	66.14	69.1	2.96	217	226.7	Pumice Tuff
LNC-103	LNC-103_226.7_236.7	69.1	72.15	3.05	226.7	236.7	Pumice Tuff
LNC-103	LNC-103_236.7_242.3	72.15	73.85	1.7	236.7	242.3	Pumice Tuff
LNC-103	LNC-103_242.3_252.1	73.85	76.84	2.99	242.3	252.1	RheomorphTuff
LNC-103	LNC-103_252.1_256.4	76.84	78.15	1.31	252.1	256.4	RheomorphTuff
LNC-103	LNC-103_256.4_262	78.15	79.86	1.71	256.4	262	RheomorphTuff
LNC-103	LNC-103_262_272	79.86	82.91	3.05	262	272	RheomorphTuff
LNC-103	LNC-103_272_276.1	82.91	84.16	1.25	272	276.1	Vitric Tuff
LNC-103	LNC-103_276.1_285.8	84.16	87.11	2.95	276.1	285.8	Vitric Tuff
LNC-103	LNC-103_285.8_293.5	87.11	89.46	2.35	285.8	293.5	Vitric Tuff
LNC-103	LNC-103_293.5_298.7	89.46	91.04	1.58	293.5	298.7	Vitric Tuff
LNC-103	LNC-103_298.7_310.5	91.04	94.64	3.6	298.7	310.5	Vitric Tuff
LNC-103	LNC-103_310.5_315.5	94.64	96.16	1.52	310.5	315.5	Vitric Tuff
LNC-103	LNC-103_315.5_325.2	96.16	99.12	2.96	315.5	325.2	Rhyolite Tuff

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-103	LNC-103_325.2_329	99.12	100.28	1.16	325.2	329	Rhyolite Tuff
LNC-103	LNC-103_329_335.2	100.28	102.17	1.89	329	335.2	RheomorphTuff
LNC-103	LNC-103_335.2_345.7	102.17	105.37	3.2	335.2	345.7	RheomorphTuff
LNC-103	LNC-103_345.7_355	105.37	108.2	2.83	345.7	355	RheomorphTuff
LNC-103	LNC-103_355_364	108.2	110.95	2.75	355	364	RheomorphTuff
LNC-103	LNC-103_364_374	110.95	114	3.05	364	374	RheomorphTuff
LNC-103	LNC-103_374_384	114	117.04	3.04	374	384	RheomorphTuff
LNC-103	LNC-103_384_394	117.04	120.09	3.05	384	394	RheomorphTuff
LNC-103	LNC-103_394_404	120.09	123.14	3.05	394	404	RheomorphTuff
LNC-103	LNC-103_404_413.8	123.14	126.13	2.99	404	413.8	RheomorphTuff
LNC-103	LNC-103_413.8_418.1	126.13	127.44	1.31	413.8	418.1	RheomorphTuff
LNC-103	LNC-103_418.1_421.6	127.44	128.5	1.06	418.1	421.6	RheomorphTuff
LNC-103	LNC-103_421.6_432.5	128.5	131.83	3.33	421.6	432.5	RheomorphTuff
LNC-103	LNC-103_432.5_442.3	131.83	134.81	2.98	432.5	442.3	RheomorphTuff
LNC-103	LNC-103_442.3_448.4	134.81	136.67	1.86	442.3	448.4	RheomorphTuff
LNC-103	LNC-103_448.4_458.1	136.67	139.63	2.96	448.4	458.1	RheomorphTuff
LNC-103	LNC-103_458.1_468.1	139.63	142.68	3.05	458.1	468.1	RheomorphTuff
LNC-103	LNC-103_468.1_478	142.68	145.69	3.01	468.1	478	RheomorphTuff
LNC-103	LNC-103_478_485.3	145.69	147.92	2.23	478	485.3	RheomorphTuff
LNC-103	LNC-103_485.3_495.6	147.92	151.06	3.14	485.3	495.6	RheomorphTuff
LNC-103	LNC-103_495.6_504	151.06	153.62	2.56	495.6	504	RheomorphTuff
LNC-103	LNC-103_504_513.3	153.62	156.45	2.83	504	513.3	RheomorphTuff
LNC-103	LNC-103_513.3_523.2	156.45	159.47	3.02	513.3	523.2	RheomorphTuff
LNC-103	LNC-103_523.2_531.4	159.47	161.97	2.5	523.2	531.4	RheomorphTuff
LNC-103	LNC-103_531.4_541	161.97	164.9	2.93	531.4	541	RheomorphTuff
LNC-103	LNC-103_541_548.7	164.9	167.24	2.34	541	548.7	RheomorphTuff
LNC-103	LNC-103_548.7_558	167.24	170.08	2.84	548.7	558	RheomorphTuff
LNC-103	LNC-103_558_568	170.08	173.13	3.05	558	568	RheomorphTuff
LNC-103	LNC-103_568_581.3	173.13	177.18	4.05	568	581.3	RheomorphTuff
LNC-103	LNC-103_581.3_585.6	177.18	178.49	1.31	581.3	585.6	RheomorphTuff
LNC-103	LNC-103_585.6_595.6	178.49	181.54	3.05	585.6	595.6	RheomorphTuff
LNC-103	LNC-103_595.6_600	181.54	182.88	1.34	595.6	600	Lithic Tuff
LNC-104	LNC-104_0_3	0	0.91	0.91	0	3	Void
LNC-104	LNC-104_3_14.4	0.91	4.39	3.48	3	14.4	White Ash
LNC-104	LNC-104_14.4_18	4.39	5.49	1.1	14.4	18	Brown Clay
LNC-104	LNC-104_18_22.7	5.49	6.92	1.43	18	22.7	Tan Ash
LNC-104	LNC-104_22.7_37.8	6.92	11.52	4.6	22.7	37.8	Brown Clay
LNC-104	LNC-104_37.8_42.4	11.52	12.92	1.4	37.8	42.4	Brown Clay
LNC-104	LNC-104_42.4_44.4	12.92	13.53	0.61	42.4	44.4	Tan Ash
LNC-104	LNC-104_44.4_50.4	13.53	15.36	1.83	44.4	50.4	Brown Clay
LNC-104	LNC-104_50.4_63.4	15.36	19.32	3.96	50.4	63.4	Tan Clay
LNC-104	LNC-104_63.4_68.2	19.32	20.79	1.47	63.4	68.2	Tan Clay
LNC-104	LNC-104_68.2_78	20.79	23.77	2.98	68.2	78	Tan Clay
LNC-104	LNC-104_78_83	23.77	25.3	1.53	78	83	Grey Clay
LNC-104	LNC-104_83_85.1	25.3	25.94	0.64	83	85.1	Grey Ash
LNC-104	LNC-104_85.1_103.4	25.94	31.52	5.58	85.1	103.4	Basalt
LNC-104	LNC-104_103.4_108.7	31.52	33.13	1.61	103.4	108.7	Grey Ash
LNC-104	LNC-104_108.7_110	33.13	33.53	0.4	108.7	110	Grey Ash
LNC-104	LNC-104_110_113	33.53	34.44	0.91	110	113	Grey Ash
LNC-104	LNC-104_113_114.3	34.44	34.84	0.4	113	114.3	Grey Ash
LNC-104	LNC-104_114.3_119.6	34.84	36.45	1.61	114.3	119.6	Grey Ash
LNC-104	LNC-104_119.6_124.2	36.45	37.86	1.41	119.6	124.2	Grey Ash

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-104	LNC-104_124.2_129.9	37.86	39.59	1.73	124.2	129.9	Grey Ash
LNC-104	LNC-104_129.9_135.6	39.59	41.33	1.74	129.9	135.6	Grey Ash
LNC-104	LNC-104_135.6_148.6	41.33	45.29	3.96	135.6	148.6	Grey Clay
LNC-104	LNC-104_148.6_149.6	45.29	45.6	0.31	148.6	149.6	Grey Clay
LNC-104	LNC-104_149.6_151.5	45.6	46.18	0.58	149.6	151.5	Grey Clay
LNC-104	LNC-104_151.5_162.8	46.18	49.62	3.44	151.5	162.8	Grey Ash
LNC-104	LNC-104_162.8_167.1	49.62	50.93	1.31	162.8	167.1	Grey Clay
LNC-104	LNC-104_167.1_169.7	50.93	51.72	0.79	167.1	169.7	Grey Ash
LNC-104	LNC-104_169.7_184.4	51.72	56.21	4.49	169.7	184.4	Grey Clay
LNC-104	LNC-104_184.4_195.5	56.21	59.59	3.38	184.4	195.5	Grey Clay
LNC-104	LNC-104_195.5_196.3	59.59	59.83	0.24	195.5	196.3	Grey Ash
LNC-104	LNC-104_196.3_200.8	59.83	61.2	1.37	196.3	200.8	Grey Clay
LNC-104	LNC-104_200.8_203.3	61.2	61.97	0.77	200.8	203.3	Grey Ash
LNC-104	LNC-104_203.3_204.5	61.97	62.33	0.36	203.3	204.5	Grey Clay
LNC-104	LNC-104_204.5_205.5	62.33	62.64	0.31	204.5	205.5	Grey Ash
LNC-104	LNC-104_205.5_207	62.64	63.09	0.45	205.5	207	Brown Clay
LNC-104	LNC-104_207_209	63.09	63.7	0.61	207	209	Grey Ash
LNC-104	LNC-104_209_210	63.7	64.01	0.31	209	210	Brown Clay
LNC-104	LNC-104_210_223.2	64.01	68.03	4.02	210	223.2	Grey Clay
LNC-104	LNC-104_223.2_228.5	68.03	69.65	1.62	223.2	228.5	Grey Ash
LNC-104	LNC-104_228.5_239.1	69.65	72.88	3.23	228.5	239.1	Light Grey Clay
LNC-104	LNC-104_239.1_241.4	72.88	73.58	0.7	239.1	241.4	Tan Ash
LNC-104	LNC-104_241.4_254.8	73.58	77.66	4.08	241.4	254.8	Light Grey Clay
LNC-104	LNC-104_254.8_256.7	77.66	78.24	0.58	254.8	256.7	Brown Clay
LNC-104	LNC-104_256.7_265.5	78.24	80.92	2.68	256.7	265.5	Grey Clay
LNC-104	LNC-104_265.5_266.2	80.92	81.14	0.22	265.5	266.2	Grey Ash
LNC-104	LNC-104_266.2_269	81.14	81.99	0.85	266.2	269	Grey Clay
LNC-104	LNC-104_269_269.8	81.99	82.24	0.25	269	269.8	Grey Ash
LNC-104	LNC-104_269.8_270.9	82.24	82.57	0.33	269.8	270.9	Grey Clay
LNC-104	LNC-104_270.9_273.3	82.57	83.3	0.73	270.9	273.3	Grey Ash
LNC-104	LNC-104_273.3_287	83.3	87.48	4.18	273.3	287	Grey Clay
LNC-104	LNC-104_287_288	87.48	87.78	0.3	287	288	Grey Ash
LNC-104	LNC-104_288_292.3	87.78	89.09	1.31	288	292.3	Grey Clay
LNC-104	LNC-104_292.3_293.1	89.09	89.34	0.25	292.3	293.1	Grey Ash
LNC-104	LNC-104_293.1_297.9	89.34	90.8	1.46	293.1	297.9	Grey Clay
LNC-104	LNC-104_297.9_320.2	90.8	97.6	6.8	297.9	320.2	Grey Ash
LNC-104	LNC-104_320.2_324.1	97.6	98.79	1.19	320.2	324.1	White Ash
LNC-104	LNC-104_324.1_333.2	98.79	101.56	2.77	324.1	333.2	Grey Ash
LNC-104	LNC-104_333.2_334.2	101.56	101.86	0.3	333.2	334.2	Black Clay
LNC-104	LNC-104_334.2_337.5	101.86	102.87	1.01	334.2	337.5	White Ash
LNC-104	LNC-104_337.5_339	102.87	103.33	0.46	337.5	339	Grey Clay
LNC-104	LNC-104_339_342.2	103.33	104.3	0.97	339	342.2	White Ash
LNC-104	LNC-104_342.2_344.1	104.3	104.88	0.58	342.2	344.1	Grey Clay
LNC-104	LNC-104_344.1_371.1	104.88	113.11	8.23	344.1	371.1	Grey Ash
LNC-104	LNC-104_371.1_379.8	113.11	115.76	2.65	371.1	379.8	Grey Ash
LNC-104	LNC-104_379.8_384.5	115.76	117.2	1.44	379.8	384.5	Black Clay
LNC-104	LNC-104_384.5_390	117.2	118.87	1.67	384.5	390	Grey Ash
LNC-104	LNC-104_390_391.9	118.87	119.45	0.58	390	391.9	Grey Ash
LNC-104	LNC-104_391.9_401	119.45	122.22	2.77	391.9	401	Grey Ash
LNC-104	LNC-104_401_406.2	122.22	123.81	1.59	401	406.2	Grey Ash
LNC-104	LNC-104_406.2_407.8	123.81	124.3	0.49	406.2	407.8	Grey Ash
LNC-104	LNC-104_407.8_409.9	124.3	124.94	0.64	407.8	409.9	Grey Ash
LNC-104	LNC-104_409.9_414.5	124.94	126.34	1.4	409.9	414.5	Black Clay

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-104	LNC-104_414.5_419.6	126.34	127.89	1.55	414.5	419.6	Grey Clay
LNC-104	LNC-104_419.6_439.1	127.89	133.84	5.95	419.6	439.1	Grey Ash
LNC-104	LNC-104_439.1_441.7	133.84	134.63	0.79	439.1	441.7	Grey Ash
LNC-104	LNC-104_441.7_444.2	134.63	135.39	0.76	441.7	444.2	Grey Ash
LNC-104	LNC-104_444.2_446.3	135.39	136.03	0.64	444.2	446.3	Grey Ash
LNC-104	LNC-104_446.3_447	136.03	136.25	0.22	446.3	447	Grey Ash
LNC-104	LNC-104_447_453	136.25	138.07	1.82	447	453	Grey Ash
LNC-104	LNC-104_453_454.7	138.07	138.59	0.52	453	454.7	Grey Ash
LNC-104	LNC-104_454.7_457.4	138.59	139.42	0.83	454.7	457.4	Grey Ash
LNC-104	LNC-104_457.4_458.6	139.42	139.78	0.36	457.4	458.6	Grey Ash
LNC-104	LNC-104_458.6_469.6	139.78	143.13	3.35	458.6	469.6	Grey Ash
LNC-104	LNC-104_469.6_472.4	143.13	143.99	0.86	469.6	472.4	Grey Ash
LNC-104	LNC-104_472.4_475.9	143.99	145.05	1.06	472.4	475.9	Grey Ash
LNC-104	LNC-104_475.9_477.5	145.05	145.54	0.49	475.9	477.5	Grey Ash
LNC-104	LNC-104_477.5_482.8	145.54	147.16	1.62	477.5	482.8	Grey Ash
LNC-104	LNC-104_482.8_495.5	147.16	151.03	3.87	482.8	495.5	Grey Ash
LNC-104	LNC-104_495.5_496.5	151.03	151.33	0.3	495.5	496.5	Grey Ash
LNC-104	LNC-104_496.5_500.5	151.33	152.55	1.22	496.5	500.5	Grey Ash
LNC-104	LNC-104_496.5_500.5	151.33	152.55	1.22	496.5	500.5	Grey Ash
LNC-116	LNC-116_0_6	0	1.83	1.83	0	6	Alluvium
LNC-116	LNC-116_6_17.8	1.83	5.43	3.6	6	17.8	Green Clay
LNC-116	LNC-116_17.8_33.1	5.43	10.09	4.66	17.8	33.1	Grey Clay
LNC-116	LNC-116_33.1_48.1	10.09	14.66	4.57	33.1	48.1	White Ash
LNC-116	LNC-116_48.1_53.3	14.66	16.25	1.59	48.1	53.3	NS
LNC-116	LNC-116_53.3_72.5	16.25	22.1	5.85	53.3	72.5	White Ash
LNC-116	LNC-116_72.5_77.6	22.1	23.65	1.55	72.5	77.6	Brown Clay
LNC-116	LNC-116_77.6_85.2	23.65	25.97	2.32	77.6	85.2	Grey Ash
LNC-116	LNC-116_85.2_105.8	25.97	32.25	6.28	85.2	105.8	Brown Clay
LNC-116	LNC-116_105.8_115.3	32.25	35.14	2.89	105.8	115.3	Grey Ash
LNC-116	LNC-116_115.3_199.9	35.14	60.93	25.79	115.3	199.9	Grey Ash
LNC-116	LNC-116_199.9_202.2	60.93	61.63	0.7	199.9	202.2	Grey Ash
LNC-116	LNC-116_202.2_214.1	61.63	65.26	3.63	202.2	214.1	RheomorphTuff
LNC-116	LNC-116_214.1_252.5	65.26	76.96	11.7	214.1	252.5	Basalt
LNC-116	LNC-116_252.5_278.3	76.96	84.83	7.87	252.5	278.3	RheomorphTuff
LNC-116	LNC-116_278.3_285.7	84.83	87.08	2.25	278.3	285.7	RheomorphTuff
LNC-116	LNC-116_285.7_300.8	87.08	91.68	4.6	285.7	300.8	Basalt
LNC-116	LNC-116_300.8_325	91.68	99.06	7.38	300.8	325	Basalt
LNC-116	LNC-116_325_344.5	99.06	105	5.94	325	344.5	Basalt
LNC-116	LNC-116_344.5_374.2	105	114.06	9.06	344.5	374.2	Basalt
LNC-116	LNC-116_374.2_383.9	114.06	117.01	2.95	374.2	383.9	Basalt
LNC-116	LNC-116_383.9_391.7	117.01	119.39	2.38	383.9	391.7	Basalt
LNC-116	LNC-116_391.7_410.5	119.39	125.12	5.73	391.7	410.5	Basalt
LNC-116	LNC-116_410.5_413.5	125.12	126.03	0.91	410.5	413.5	Basalt
LNC-116	LNC-116_413.5_422.8	126.03	128.87	2.84	413.5	422.8	Basalt
LNC-116	LNC-116_422.8_431.1	128.87	131.4	2.53	422.8	431.1	Basalt
LNC-116	LNC-116_431.1_452.4	131.4	137.89	6.49	431.1	452.4	Basalt
LNC-116	LNC-116_452.4_463.1	137.89	141.15	3.26	452.4	463.1	Basalt
LNC-116	LNC-116_463.1_489.8	141.15	149.29	8.14	463.1	489.8	Basalt
LNC-116	LNC-116_489.8_520	149.29	158.5	9.21	489.8	520	Basalt

Appendix E

East WRSF Lithium Drill Results

East WRSF Drillhole Data

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-123	LNC-123_0_14.9	0	4.54	4.54	47.1
LNC-123	LNC-123_14.9_26.8	4.54	8.17	3.63	43.2
LNC-123	LNC-123_26.8_31.8	8.17	9.69	1.52	226
LNC-123	LNC-123_31.8_36.8	9.69	11.22	1.53	224
LNC-123	LNC-123_36.8_41	11.22	12.5	1.28	181
LNC-123	LNC-123_41_46	12.5	14.02	1.52	198.5
LNC-123	LNC-123_46_51	14.02	15.54	1.52	208
LNC-123	LNC-123_51_56	15.54	17.07	1.53	223
LNC-123	LNC-123_56_61	17.07	18.59	1.52	243
LNC-123	LNC-123_61_66	18.59	20.12	1.53	147
LNC-123	LNC-123_66_70	20.12	21.34	1.22	183.5
LNC-123	LNC-123_70_75	21.34	22.86	1.52	327
LNC-123	LNC-123_75_79.3	22.86	24.17	1.31	115
LNC-123	LNC-123_79.3_81.5	24.17	24.84	0.67	36.2
LNC-123	LNC-123_81.5_84.3	24.84	25.69	0.85	217
LNC-123	LNC-123_84.3_90	25.69	27.43	1.74	176
LNC-123	LNC-123_90_95	27.43	28.96	1.53	146.5
LNC-123	LNC-123_95_100	28.96	30.48	1.52	170.5
LNC-123	LNC-123_100_102.8	30.48	31.33	0.85	257
LNC-123	LNC-123_102.8_106	31.33	32.31	0.98	910
LNC-123	LNC-123_106_110	32.31	33.53	1.22	1850
LNC-123	LNC-123_110_115	33.53	35.05	1.52	1330
LNC-123	LNC-123_115_120	35.05	36.58	1.53	1770
LNC-123	LNC-123_120_125	36.58	38.1	1.52	2520
LNC-123	LNC-123_125_129.8	38.1	39.56	1.46	1510
LNC-123	LNC-123_129.8_134	39.56	40.84	1.28	213
LNC-123	LNC-123_134_144.5	40.84	44.04	3.2	2370
LNC-123	LNC-123_144.5_150	44.04	45.72	1.68	2740
LNC-123	LNC-123_150_155	45.72	47.24	1.52	321
LNC-123	LNC-123_155_158	47.24	48.16	0.92	2560
LNC-123	LNC-123_158_165	48.16	50.29	2.13	2250
LNC-123	LNC-123_165_170	50.29	51.82	1.53	1600
LNC-123	LNC-123_170_175	51.82	53.34	1.52	220
LNC-123	LNC-123_175_180	53.34	54.86	1.52	270
LNC-123	LNC-123_180_190.5	54.86	58.06	3.2	1290
LNC-123	LNC-123_190.5_195.8	58.06	59.68	1.62	460
LNC-123	LNC-123_195.8_202.6	59.68	61.75	2.07	76.6
LNC-123	LNC-123_202.6_207	61.75	63.09	1.34	1280
LNC-123	LNC-123_207_210	63.09	64.01	0.92	2420
LNC-123	LNC-123_210_215	64.01	65.53	1.52	1700
LNC-123	LNC-123_215_220	65.53	67.06	1.53	790
LNC-123	LNC-123_220_225	67.06	68.58	1.52	1250
LNC-123	LNC-123_225_230	68.58	70.1	1.52	2720
LNC-123	LNC-123_230_235	70.1	71.63	1.53	1970
LNC-123	LNC-123_235_243	71.63	74.07	2.44	1180

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-123	LNC-123_243_250	74.07	76.2	2.13	2080
LNC-123	LNC-123_250_255	76.2	77.72	1.52	2000
LNC-123	LNC-123_255_260	77.72	79.25	1.53	2360
LNC-123	LNC-123_260_265.4	79.25	80.89	1.64	2930
LNC-123	LNC-123_265.4_267	80.89	81.38	0.49	2630
LNC-123	LNC-123_267_270	81.38	82.3	0.92	158
LNC-123	LNC-123_270_275	82.3	83.82	1.52	2160
LNC-123	LNC-123_275_280	83.82	85.34	1.52	2840
LNC-123	LNC-123_280_285	85.34	86.87	1.53	2110
LNC-123	LNC-123_285_290	86.87	88.39	1.52	2170
LNC-123	LNC-123_290_295	88.39	89.92	1.53	2520
LNC-123	LNC-123_295_298.7	89.92	91.04	1.12	2650
LNC-123	LNC-123_298.7_303.9	91.04	92.63	1.59	930
LNC-123	LNC-123_303.9_310	92.63	94.49	1.86	3750
LNC-123	LNC-123_310_315	94.49	96.01	1.52	1800
LNC-123	LNC-123_315_320	96.01	97.54	1.53	3000
LNC-123	LNC-123_320_325	97.54	99.06	1.52	3480
LNC-123	LNC-123_325_330	99.06	100.58	1.52	4710
LNC-123	LNC-123_330_335	100.58	102.11	1.53	5430
LNC-123	LNC-123_335_340	102.11	103.63	1.52	4890
LNC-123	LNC-123_340_345	103.63	105.16	1.53	3700
LNC-123	LNC-123_345_350	105.16	106.68	1.52	3370
LNC-123	LNC-123_350_355	106.68	108.2	1.52	5170
LNC-123	LNC-123_355_360	108.2	109.73	1.53	2160
LNC-123	LNC-123_360_365	109.73	111.25	1.52	3420
LNC-123	LNC-123_365_370	111.25	112.78	1.53	4070
LNC-123	LNC-123_370_375	112.78	114.3	1.52	5100
LNC-123	LNC-123_375_380	114.3	115.82	1.52	4960
LNC-123	LNC-123_380_385	115.82	117.35	1.53	4830
LNC-123	LNC-123_385_390	117.35	118.87	1.52	4940
LNC-123	LNC-123_390_395	118.87	120.4	1.53	4290
LNC-123	LNC-123_395_400	120.4	121.92	1.52	2180
LNC-123	LNC-123_400_407.9	121.92	124.33	2.41	3820
LNC-123	LNC-123_407.9_412.9	124.33	125.85	1.52	402
LNC-123	LNC-123_412.9_420.3	125.85	128.11	2.26	90.4
LNC-123	LNC-123_420.3_425.1	128.11	129.57	1.46	45.7
LNC-123	LNC-123_425.1_430	129.57	131.06	1.49	78.7
LNC-123	LNC-123_430_435	131.06	132.59	1.53	37.8
LNC-123	LNC-123_435_440	132.59	134.11	1.52	48.1
LNC-123	LNC-123_440_445	134.11	135.64	1.53	62.2
LNC-123	LNC-123_445_452.7	135.64	137.98	2.34	61.1
LNC-123	LNC-123_452.7_454.7	137.98	138.59	0.61	27.3
LNC-123	LNC-123_454.7_460	138.59	140.21	1.62	35.5
LNC-123	LNC-123_460_465	140.21	141.73	1.52	65.6
LNC-123	LNC-123_465_469.6	141.73	143.13	1.4	46.4
LNC-123	LNC-123_469.6_475	143.13	144.78	1.65	54.7

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-123	LNC-123_475_480	144.78	146.3	1.52	43.8
LNC-123	LNC-123_480_485	146.3	147.83	1.53	46.8
LNC-123	LNC-123_485_490	147.83	149.35	1.52	58.1
LNC-123	LNC-123_490_495	149.35	150.88	1.53	49.2
LNC-123	LNC-123_495_500	150.88	152.4	1.52	61.7
LNC-123	LNC-123_500_505	152.4	153.92	1.52	86.6
LNC-123	LNC-123_505_510	153.92	155.45	1.53	65.5
LNC-123	LNC-123_510_515	155.45	156.97	1.52	48.8
LNC-123	LNC-123_515_520	156.97	158.5	1.53	49
LNC-123	LNC-123_520_525	158.5	160.02	1.52	56.1
LNC-123	LNC-123_525_528.7	160.02	161.15	1.13	54
LNC-123	LNC-123_533.9_540	162.73	164.59	1.86	57.9
LNC-123	LNC-123_540_545	164.59	166.12	1.53	53.3
LNC-123	LNC-123_545_550	166.12	167.64	1.52	51.7
LNC-123	LNC-123_550_555	167.64	169.16	1.52	37.6
LNC-123	LNC-123_555_560	169.16	170.69	1.53	49.6
LNC-123	LNC-123_560_565	170.69	172.21	1.52	27.1
LNC-123	LNC-123_565_570	172.21	173.74	1.53	27.2
LNC-123	LNC-123_570_575	173.74	175.26	1.52	36.6
LNC-123	LNC-123_575_580	175.26	176.78	1.52	44.4
LNC-123	LNC-123_580_585	176.78	178.31	1.53	44.8
LNC-123	LNC-123_585_590	178.31	179.83	1.52	46
LNC-123	LNC-123_590_595	179.83	181.36	1.53	52.8
LNC-123	LNC-123_595_600	181.36	182.88	1.52	63.6
LNC-127	LNC-127_0_6.7	0	2.04	2.04	43.6
LNC-127	LNC-127_6.7_10.9	2.04	3.32	1.28	69.4
LNC-127	LNC-127_10.9_15.5	3.32	4.72	1.4	540
LNC-127	LNC-127_15.5_20.1	4.72	6.13	1.41	73.1
LNC-127	LNC-127_20.1_24.4	6.13	7.44	1.31	62.6
LNC-127	LNC-127_24.4_28.8	7.44	8.78	1.34	60.5
LNC-127	LNC-127_28.8_33.8	8.78	10.3	1.52	51
LNC-127	LNC-127_33.8_38	10.3	11.58	1.28	52
LNC-127	LNC-127_38_42.8	11.58	13.05	1.47	31.1
LNC-127	LNC-127_42.8_52.8	13.05	16.09	3.04	710
LNC-127	LNC-127_52.8_61.1	16.09	18.62	2.53	233
LNC-127	LNC-127_61.1_70.6	18.62	21.52	2.9	120
LNC-127	LNC-127_70.6_80.5	21.52	24.54	3.02	69.2
LNC-127	LNC-127_80.5_89.5	24.54	27.28	2.74	44.9
LNC-127	LNC-127_89.5_97.3	27.28	29.66	2.38	32.9
LNC-127	LNC-127_97.3_104.8	29.66	31.94	2.28	28.4
LNC-127	LNC-127_104.8_114.8	31.94	34.99	3.05	29
LNC-127	LNC-127_114.8_125.5	34.99	38.25	3.26	43.7
WLC-073	WLC-073_24.8_32	7.56	9.75	2.19	140
WLC-073	WLC-073_32_38	9.75	11.58	1.83	146.5

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
WLC-073	WLC-073_38_43.1	11.58	13.14	1.56	143
WLC-073	WLC-073_43.1_51.9	13.14	15.82	2.68	135
WLC-073	WLC-073_51.9_57	15.82	17.37	1.55	120
WLC-073	WLC-073_57_62	17.37	18.9	1.53	122
WLC-073	WLC-073_62_69.5	18.9	21.18	2.28	118.5
WLC-073	WLC-073_88_97	26.82	29.57	2.75	123
WLC-073	WLC-073_97_102.2	29.57	31.15	1.58	88.5
WLC-073	WLC-073_102.2_108.9	31.15	33.19	2.04	154
WLC-073	WLC-073_108.9_114.7	33.19	34.96	1.77	640
WLC-073	WLC-073_143.4_147	43.71	44.81	1.1	2100
WLC-073	WLC-073_147_151.7	44.81	46.24	1.43	1750
WLC-073	WLC-073_151.7_155.7	46.24	47.46	1.22	1670
WLC-073	WLC-073_155.7_163.6	47.46	49.87	2.41	510
WLC-073	WLC-073_163.6_168	49.87	51.21	1.34	2340
WLC-073	WLC-073_168_172	51.21	52.43	1.22	2430
WLC-073	WLC-073_172_178.8	52.43	54.5	2.07	2150
WLC-073	WLC-073_178.8_183.1	54.5	55.81	1.31	414
WLC-073	WLC-073_183.1_190.5	55.81	58.06	2.25	1850
WLC-073	WLC-073_190.5_197.2	58.06	60.11	2.05	710
WLC-073	WLC-073_197.2_199.2	60.11	60.72	0.61	236
WLC-073	WLC-073_199.2_206.5	60.72	62.94	2.22	1130
WLC-073	WLC-073_206.5_211.7	62.94	64.53	1.59	98.5
WLC-073	WLC-073_211.7_216.8	64.53	66.08	1.55	108.5
WLC-073	WLC-073_216.8_220.1	66.08	67.09	1.01	870
WLC-073	WLC-073_220.1_222.9	67.09	67.94	0.85	1050
WLC-073	WLC-073_222.9_228.3	67.94	69.59	1.65	730
WLC-073	WLC-073_228.3_230.8	69.59	70.35	0.76	150.5
WLC-073	WLC-073_230.8_235.3	70.35	71.72	1.37	580
WLC-073	WLC-073_235.3_241	71.72	73.46	1.74	210
WLC-073	WLC-073_241_246.6	73.46	75.16	1.7	84.7
WLC-073	WLC-073_246.6_251	75.16	76.5	1.34	790
WLC-073	WLC-073_251_255.1	76.5	77.75	1.25	2510
WLC-073	WLC-073_255.1_259.6	77.75	79.13	1.38	2980
WLC-073	WLC-073_259.6_264.7	79.13	80.68	1.55	315
WLC-073	WLC-073_264.7_269.5	80.68	82.14	1.46	1780
WLC-073	WLC-073_269.5_272.5	82.14	83.06	0.92	2530
WLC-073	WLC-073_272.5_276.2	83.06	84.19	1.13	240
WLC-073	WLC-073_276.2_278.8	84.19	84.98	0.79	2460
WLC-073	WLC-073_278.8_280.8	84.98	85.59	0.61	1480
WLC-073	WLC-073_280.8_283.9	85.59	86.53	0.94	2850
WLC-073	WLC-073_283.9_291.4	86.53	88.82	2.29	1510
WLC-073	WLC-073_291.4_296.2	88.82	90.28	1.46	2090
WLC-073	WLC-073_296.2_302.2	90.28	92.11	1.83	940
WLC-073	WLC-073_302.2_306	92.11	93.27	1.16	1310
WLC-073	WLC-073_306_311	93.27	94.79	1.52	2380
WLC-073	WLC-073_311_313.6	94.79	95.59	0.8	2680

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
WLC-073	WLC-073_313.6_318	95.59	96.93	1.34	2490
WLC-073	WLC-073_318_322.2	96.93	98.21	1.28	3690
WLC-073	WLC-073_322.2_323.9	98.21	98.72	0.51	329
WLC-073	WLC-073_323.9_327.1	98.72	99.7	0.98	2630
WLC-073	WLC-073_327.1_331	99.7	100.89	1.19	2110
WLC-073	WLC-073_331_336	100.89	102.41	1.52	2680
WLC-073	WLC-073_336_341.2	102.41	104	1.59	2620
WLC-073	WLC-073_341.2_343.6	104	104.73	0.73	2510
WLC-073	WLC-073_343.6_351	104.73	106.98	2.25	2040
WLC-073	WLC-073_351_354.9	106.98	108.17	1.19	3260
WLC-073	WLC-073_354.9_361.2	108.17	110.09	1.92	3050
WLC-073	WLC-073_361.2_363.5	110.09	110.79	0.7	4320
WLC-073	WLC-073_363.5_367	110.79	111.86	1.07	1990
WLC-073	WLC-073_367_371.1	111.86	113.11	1.25	3300
WLC-073	WLC-073_371.1_376.3	113.11	114.7	1.59	5840
WLC-073	WLC-073_376.3_383	114.7	116.74	2.04	4470
WLC-073	WLC-073_383_391.3	116.74	119.27	2.53	5330
WLC-073	WLC-073_391.3_395.5	119.27	120.55	1.28	4230
WLC-073	WLC-073_395.5_402.8	120.55	122.77	2.22	2390
WLC-073	WLC-073_402.8_410.3	122.77	125.06	2.29	1890
WLC-073	WLC-073_410.3_412.4	125.06	125.7	0.64	3210
WLC-073	WLC-073_412.4_422.4	125.7	128.75	3.05	1310
WLC-073	WLC-073_422.4_426.6	128.75	130.03	1.28	442
WLC-073	WLC-073_426.6_432.9	130.03	131.95	1.92	5660
WLC-073	WLC-073_432.9_437	131.95	133.2	1.25	1890
WLC-073	WLC-073_437_441.5	133.2	134.57	1.37	4040
WLC-073	WLC-073_441.5_444.2	134.57	135.39	0.82	3590
WLC-074	WLC-074_46.9_53	14.3	16.15	1.85	71.3
WLC-074	WLC-074_53_59.8	16.15	18.23	2.08	45
WLC-074	WLC-074_59.8_62	18.23	18.9	0.67	131.5
WLC-074	WLC-074_62_69.9	18.9	21.31	2.41	830
WLC-074	WLC-074_69.9_77	21.31	23.47	2.16	750
WLC-074	WLC-074_77_81.3	23.47	24.78	1.31	76.2
WLC-074	WLC-074_81.3_87	24.78	26.52	1.74	71.3
WLC-074	WLC-074_87_93	26.52	28.35	1.83	65.3
WLC-074	WLC-074_93_100	28.35	30.48	2.13	56.9
WLC-074	WLC-074_100_107	30.48	32.61	2.13	18.4
WLC-074	WLC-074_107_112	32.61	34.14	1.53	16.5
WLC-074	WLC-074_112_117	34.14	35.66	1.52	920
WLC-074	WLC-074_117_122	35.66	37.19	1.53	1490
WLC-074	WLC-074_122_127	37.19	38.71	1.52	840
WLC-074	WLC-074_127_133	38.71	40.54	1.83	980
WLC-074	WLC-074_247.2_253.2	75.35	77.18	1.83	89.6
WLC-074	WLC-074_317_321.5	96.62	97.99	1.37	168
WLC-074	WLC-074_321.5_325.2	97.99	99.12	1.13	205

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
WLC-074	WLC-074_325.2_331.8	99.12	101.13	2.01	620
WLC-074	WLC-074_331.8_336.2	101.13	102.47	1.34	2080
WLC-181	WLC-181_12_18.6	3.66	5.67	2.01	162.5
WLC-181	WLC-181_18.6_22	5.67	6.71	1.04	1080
WLC-181	WLC-181_22_25.6	6.71	7.8	1.09	1070
WLC-181	WLC-181_25.6_31	7.8	9.45	1.65	174.5
WLC-181	WLC-181_31_35	9.45	10.67	1.22	53.8
WLC-181	WLC-181_35_39	10.67	11.89	1.22	68.7
WLC-181	WLC-181_39_43.7	11.89	13.32	1.43	47.5
WLC-181	WLC-181_43.7_47.2	13.32	14.39	1.07	30.2
WLC-181	WLC-181_47.2_52	14.39	15.85	1.46	18.3
WLC-181	WLC-181_52_57.9	15.85	17.65	1.8	77.9
WLC-181	WLC-181_57.9_62.2	17.65	18.96	1.31	1290
WLC-181	WLC-181_62.2_67.2	18.96	20.48	1.52	1570
WLC-181	WLC-181_67.2_72.2	20.48	22.01	1.53	770
WLC-181	WLC-181_72.2_76.4	22.01	23.29	1.28	298
WLC-182	WLC-182_76.4_79.5	23.29	24.23	0.94	80.2
WLC-182	WLC-182_79.5_83.8	24.23	25.54	1.31	370
WLC-182	WLC-182_83.8_86.6	25.54	26.4	0.86	389
WLC-182	WLC-182_86.6_91.7	26.4	27.95	1.55	650
WLC-182	WLC-182_91.7_93.1	27.95	28.38	0.43	660
WLC-182	WLC-182_93.1_94.2	28.38	28.71	0.33	173
WLC-182	WLC-182_94.2_98.1	28.71	29.9	1.19	408
WLC-182	WLC-182_98.1_100.1	29.9	30.51	0.61	480
WLC-185	WLC-185_76.7_81.2	23.38	24.75	1.37	112.5
WLC-185	WLC-185_81.2_87	24.75	26.52	1.77	81.7
WLC-185	WLC-185_87_91.9	26.52	28.01	1.49	88.9
WLC-185	WLC-185_91.9_92.8	28.01	28.29	0.28	278
WLC-185	WLC-185_92.8_95.5	28.29	29.11	0.82	79.7
WLC-185	WLC-185_95.5_99	29.11	30.18	1.07	275
WLC-185	WLC-185_99_102.5	30.18	31.24	1.06	1740
WLC-185	WLC-185_102.5_107	31.24	32.61	1.37	388
WLC-185	WLC-185_107_112	32.61	34.14	1.53	109
WLC-185	WLC-185_112_117	34.14	35.66	1.52	78.8
WLC-185	WLC-185_117_121	35.66	36.88	1.22	67
WLC-185	WLC-185_121_122	36.88	37.19	0.31	74.4
WLC-185	WLC-185_122_123.8	37.19	37.73	0.54	27.9
WLC-185	WLC-185_123.8_125.7	37.73	38.31	0.58	27.8
WLC-185	WLC-185_125.7_128.6	38.31	39.2	0.89	22.1
WLC-185	WLC-185_128.6_135	39.2	41.15	1.95	750
WLC-185	WLC-185_135_138.6	41.15	42.25	1.1	1240
WLC-185	WLC-185_138.6_140.5	42.25	42.82	0.57	240
WLC-185	WLC-185_140.5_141.6	42.82	43.16	0.34	156

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
WLC-185	WLC-185_141.6_146.2	43.16	44.56	1.4	148.5
WLC-185	WLC-185_218.9_221.1	66.72	67.39	0.67	600
WLC-185	WLC-185_221.1_225	67.39	68.58	1.19	129
WLC-185	WLC-185_225_230	68.58	70.1	1.52	81
WLC-185	WLC-185_230_234.6	70.1	71.51	1.41	77

Appendix F

East WRSF Drill Hole Lithology

East WRSF Lithology

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-123	LNC-123_0_14.9	0	4.54	4.54	0	14.9	Alluvium
LNC-123	LNC-123_14.9_26.8	4.54	8.17	3.63	14.9	26.8	Alluvium
LNC-123	LNC-123_26.8_31.8	8.17	9.69	1.52	26.8	31.8	Tan Clay
LNC-123	LNC-123_31.8_36.8	9.69	11.22	1.53	31.8	36.8	Tan Clay
LNC-123	LNC-123_36.8_41	11.22	12.5	1.28	36.8	41	Tan Clay
LNC-123	LNC-123_41_46	12.5	14.02	1.52	41	46	Tan Clay
LNC-123	LNC-123_46_51	14.02	15.54	1.52	46	51	Brown Clay
LNC-123	LNC-123_51_56	15.54	17.07	1.53	51	56	Volcanic Seds
LNC-123	LNC-123_56_61	17.07	18.59	1.52	56	61	Tan Clay
LNC-123	LNC-123_61_66	18.59	20.12	1.53	61	66	Tan Clay
LNC-123	LNC-123_66_70	20.12	21.34	1.22	66	70	Tan Clay
LNC-123	LNC-123_70_75	21.34	22.86	1.52	70	75	Tan Clay
LNC-123	LNC-123_75_79.3	22.86	24.17	1.31	75	79.3	Tan Clay
LNC-123	LNC-123_79.3_81.5	24.17	24.84	0.67	79.3	81.5	Tan Ash
LNC-123	LNC-123_81.5_84.3	24.84	25.69	0.85	81.5	84.3	Brown Clay
LNC-123	LNC-123_84.3_90	25.69	27.43	1.74	84.3	90	Brown Clay
LNC-123	LNC-123_90_95	27.43	28.96	1.53	90	95	Brown Clay
LNC-123	LNC-123_95_100	28.96	30.48	1.52	95	100	Brown Clay
LNC-123	LNC-123_100_102.5	30.48	31.24	0.76	100	102.5	Brown Clay
LNC-123	LNC-123_102.5_106	31.24	32.31	1.07	102.5	106	Ash
LNC-123	LNC-123_106_110	32.31	33.53	1.22	106	110	Tan Clay
LNC-123	LNC-123_110_115	33.53	35.05	1.52	110	115	Tan Clay
LNC-123	LNC-123_115_120	35.05	36.58	1.53	115	120	Tan Clay
LNC-123	LNC-123_120_129.8	36.58	39.56	2.98	120	129.8	Tan Clay
LNC-123	LNC-123_129.8_134	39.56	40.84	1.28	129.8	134	Ash
LNC-123	LNC-123_134_144.5	40.84	44.04	3.2	134	144.5	Tan Clay
LNC-123	LNC-123_144.5_150	44.04	45.72	1.68	144.5	150	Tan Clay
LNC-123	LNC-123_150_155	45.72	47.24	1.52	150	155	Ash
LNC-123	LNC-123_155_158	47.24	48.16	0.92	155	158	Tan Clay
LNC-123	LNC-123_158_165	48.16	50.29	2.13	158	165	Brown Clay
LNC-123	LNC-123_165_170	50.29	51.82	1.53	165	170	Brown Clay
LNC-123	LNC-123_170_175	51.82	53.34	1.52	170	175	Brown Clay
LNC-123	LNC-123_175_180	53.34	54.86	1.52	175	180	Grey Clay
LNC-123	LNC-123_180_190.5	54.86	58.06	3.2	180	190.5	Brown Clay
LNC-123	LNC-123_190.5_195.8	58.06	59.68	1.62	190.5	195.8	Brown Clay
LNC-123	LNC-123_195.8_202.6	59.68	61.75	2.07	195.8	202.6	Light Grey Clay
LNC-123	LNC-123_202.6_207	61.75	63.09	1.34	202.6	207	Brown Clay
LNC-123	LNC-123_207_210	63.09	64.01	0.92	207	210	Brown Clay
LNC-123	LNC-123_210_215	64.01	65.53	1.52	210	215	Brown Clay
LNC-123	LNC-123_215_220	65.53	67.06	1.53	215	220	Brown Clay
LNC-123	LNC-123_220_225	67.06	68.58	1.52	220	225	Brown Clay
LNC-123	LNC-123_225_230	68.58	70.1	1.52	225	230	Brown Clay
LNC-123	LNC-123_230_235	70.1	71.63	1.53	230	235	Grey Clay
LNC-123	LNC-123_235_238	71.63	72.54	0.91	235	238	Brown Clay
LNC-123	LNC-123_238_243	72.54	74.07	1.53	238	243	Brown Clay
LNC-123	LNC-123_243_250	74.07	76.2	2.13	243	250	Green Clay
LNC-123	LNC-123_250_255	76.2	77.72	1.52	250	255	Grey Clay
LNC-123	LNC-123_255_260	77.72	79.25	1.53	255	260	Brown Clay
LNC-123	LNC-123_260_265.4	79.25	80.89	1.64	260	265.4	Brown Clay

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-123	LNC-123_265.4_267	80.89	81.38	0.49	265.4	267	Ash
LNC-123	LNC-123_267_270	81.38	82.3	0.92	267	270	Brown Clay
LNC-123	LNC-123_270_275	82.3	83.82	1.52	270	275	Light Grey Clay
LNC-123	LNC-123_275_280	83.82	85.34	1.52	275	280	Light Grey Clay
LNC-123	LNC-123_280_285	85.34	86.87	1.53	280	285	Brown Clay
LNC-123	LNC-123_285_290	86.87	88.39	1.52	285	290	Brown Clay
LNC-123	LNC-123_290_295	88.39	89.92	1.53	290	295	Brown Clay
LNC-123	LNC-123_295_298.7	89.92	91.04	1.12	295	298.7	Brown Clay
LNC-123	LNC-123_298.7_303.9	91.04	92.63	1.59	298.7	303.9	Grey Clay
LNC-123	LNC-123_303.9_310	92.63	94.49	1.86	303.9	310	Brown Clay
LNC-123	LNC-123_310_315	94.49	96.01	1.52	310	315	Grey Ash
LNC-123	LNC-123_315_320	96.01	97.54	1.53	315	320	Brown Clay
LNC-123	LNC-123_320_325	97.54	99.06	1.52	320	325	Brown Clay
LNC-123	LNC-123_325_330	99.06	100.58	1.52	325	330	Brown Clay
LNC-123	LNC-123_330_335	100.58	102.11	1.53	330	335	Brown Clay
LNC-123	LNC-123_335_340	102.11	103.63	1.52	335	340	Brown Clay
LNC-123	LNC-123_340_345	103.63	105.16	1.53	340	345	Brown Clay
LNC-123	LNC-123_345_350	105.16	106.68	1.52	345	350	Brown Clay
LNC-123	LNC-123_350_355	106.68	108.2	1.52	350	355	Brown Clay
LNC-123	LNC-123_355_360	108.2	109.73	1.53	355	360	Ash
LNC-123	LNC-123_360_365	109.73	111.25	1.52	360	365	Brown Clay
LNC-123	LNC-123_365_370	111.25	112.78	1.53	365	370	Ash
LNC-123	LNC-123_370_375	112.78	114.3	1.52	370	375	Brown Clay
LNC-123	LNC-123_375_380	114.3	115.82	1.52	375	380	Brown Clay
LNC-123	LNC-123_380_385	115.82	117.35	1.53	380	385	Brown Clay
LNC-123	LNC-123_385_390	117.35	118.87	1.52	385	390	Brown Clay
LNC-123	LNC-123_390_395	118.87	120.4	1.53	390	395	Brown Clay
LNC-123	LNC-123_395_400	120.4	121.92	1.52	395	400	Brown Clay
LNC-123	LNC-123_400_407.9	121.92	124.33	2.41	400	407.9	Brown Clay
LNC-123	LNC-123_407.9_412.9	124.33	125.85	1.52	407.9	412.9	Rhyolite Tuff
LNC-123	LNC-123_412.9_420.3	125.85	128.11	2.26	412.9	420.3	Rhyolite Tuff
LNC-123	LNC-123_420.3_425.1	128.11	129.57	1.46	420.3	425.1	Rhyolite Tuff
LNC-123	LNC-123_425.1_430	129.57	131.06	1.49	425.1	430	Lithic Tuff
LNC-123	LNC-123_430_435	131.06	132.59	1.53	430	435	Lithic Tuff
LNC-123	LNC-123_435_440	132.59	134.11	1.52	435	440	Lithic Tuff
LNC-123	LNC-123_440_445	134.11	135.64	1.53	440	445	Lithic Tuff
LNC-123	LNC-123_445_452.7	135.64	137.98	2.34	445	452.7	Lithic Tuff
LNC-123	LNC-123_452.7_454.7	137.98	138.59	0.61	452.7	454.7	Flow Breccia
LNC-123	LNC-123_454.7_460	138.59	140.21	1.62	454.7	460	Flow Breccia
LNC-123	LNC-123_460_465	140.21	141.73	1.52	460	465	Flow Breccia
LNC-123	LNC-123_465_469.6	141.73	143.13	1.4	465	469.6	Flow Breccia
LNC-123	LNC-123_469.6_475	143.13	144.78	1.65	469.6	475	Flow Breccia
LNC-123	LNC-123_475_480	144.78	146.3	1.52	475	480	Flow Breccia
LNC-123	LNC-123_480_485	146.3	147.83	1.53	480	485	Flow Breccia
LNC-123	LNC-123_485_490	147.83	149.35	1.52	485	490	Flow Breccia
LNC-123	LNC-123_490_495	149.35	150.88	1.53	490	495	Flow Breccia
LNC-123	LNC-123_495_500	150.88	152.4	1.52	495	500	Flow Breccia
LNC-123	LNC-123_500_505	152.4	153.92	1.52	500	505	Lithic Tuff
LNC-123	LNC-123_505_510	153.92	155.45	1.53	505	510	Flow Breccia
LNC-123	LNC-123_510_515	155.45	156.97	1.52	510	515	Flow Breccia

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-123	LNC-123_515_520	156.97	158.5	1.53	515	520	Flow Breccia
LNC-123	LNC-123_520_525	158.5	160.02	1.52	520	525	Flow Breccia
LNC-123	LNC-123_525_528.7	160.02	161.15	1.13	525	528.7	Flow Breccia
LNC-123	LNC-123_528.7_533.9	161.15	162.73	1.58	528.7	533.9	NS
LNC-123	LNC-123_533.9_540	162.73	164.59	1.86	533.9	540	Flow Breccia
LNC-123	LNC-123_540_545	164.59	166.12	1.53	540	545	Flow Breccia
LNC-123	LNC-123_545_550	166.12	167.64	1.52	545	550	Flow Breccia
LNC-123	LNC-123_550_555	167.64	169.16	1.52	550	555	Flow Breccia
LNC-123	LNC-123_555_560	169.16	170.69	1.53	555	560	Flow Breccia
LNC-123	LNC-123_560_565	170.69	172.21	1.52	560	565	Flow Breccia
LNC-123	LNC-123_565_570	172.21	173.74	1.53	565	570	Flow Breccia
LNC-123	LNC-123_570_575	173.74	175.26	1.52	570	575	Flow Breccia
LNC-123	LNC-123_575_580	175.26	176.78	1.52	575	580	Flow Breccia
LNC-123	LNC-123_580_585	176.78	178.31	1.53	580	585	Flow Breccia
LNC-123	LNC-123_585_590	178.31	179.83	1.52	585	590	Flow Breccia
LNC-123	LNC-123_590_595	179.83	181.36	1.53	590	595	Flow Breccia
LNC-123	LNC-123_595_600	181.36	182.88	1.52	595	600	Flow Breccia
LNC-127	LNC-127_0_4.8	0	1.46	1.46	0	4.8	Alluvium
LNC-127	LNC-127_4.8_12.8	1.46	3.9	2.44	4.8	12.8	White Ash
LNC-127	LNC-127_12.8_15.4	3.9	4.69	0.79	12.8	15.4	Light Grey Clay
LNC-127	LNC-127_15.4_45.8	4.69	13.96	9.27	15.4	45.8	Tan Ash
LNC-127	LNC-127_45.8_53.1	13.96	16.18	2.22	45.8	53.1	Light Grey Clay
LNC-127	LNC-127_53.1_64.2	16.18	19.57	3.39	53.1	64.2	Basalt
LNC-127	LNC-127_64.2_81.8	19.57	24.93	5.36	64.2	81.8	Basalt
LNC-127	LNC-127_81.8_125.5	24.93	38.25	13.32	81.8	125.5	Basalt
WLC-073	WLC-073_0_11	0	3.35	3.35			Alluvium
WLC-073	WLC-073_11_12.6	3.35	3.84	0.49			Alluvium
WLC-073	WLC-073_12.6_21	3.84	6.4	2.56			Alluvium
WLC-073	WLC-073_21_24.8	6.4	7.56	1.16			Alluvium
WLC-073	WLC-073_24.8_102.2	7.56	31.15	23.59			Volcanic Seds
WLC-073	WLC-073_102.2_108.9	31.15	33.19	2.04			Tan Clay
WLC-073	WLC-073_108.9_112.2	33.19	34.2	1.01			White Ash
WLC-073	WLC-073_112.2_114.7	34.2	34.96	0.76			Tan Clay
WLC-073	WLC-073_114.7_143.4	34.96	43.71	8.75			Basalt
WLC-073	WLC-073_143.4_144.2	43.71	43.95	0.24			Tan Clay
WLC-073	WLC-073_144.2_150.6	43.95	45.9	1.95			Tan Clay
WLC-073	WLC-073_150.6_151.7	45.9	46.24	0.34			Tan Ash
WLC-073	WLC-073_151.7_155.7	46.24	47.46	1.22			Tan Clay
WLC-073	WLC-073_155.7_163.6	47.46	49.87	2.41			Tan Clay
WLC-073	WLC-073_163.6_177.4	49.87	54.07	4.2			Grey Clay
WLC-073	WLC-073_177.4_178.8	54.07	54.5	0.43			Grey Ash
WLC-073	WLC-073_178.8_183.1	54.5	55.81	1.31			Tan Ash
WLC-073	WLC-073_183.1_190.5	55.81	58.06	2.25			Grey Clay
WLC-073	WLC-073_190.5_197.2	58.06	60.11	2.05			Grey Clay
WLC-073	WLC-073_197.2_199.2	60.11	60.72	0.61			Grey Ash
WLC-073	WLC-073_199.2_206.5	60.72	62.94	2.22			Grey Clay
WLC-073	WLC-073_206.5_209.9	62.94	63.98	1.04			Grey Clay
WLC-073	WLC-073_209.9_211.7	63.98	64.53	0.55			Arkose

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
WLC-073	WLC-073_211.7_216.8	64.53	66.08	1.55			Grey Ash
WLC-073	WLC-073_216.8_220.1	66.08	67.09	1.01			Grey Clay
WLC-073	WLC-073_220.1_222.9	67.09	67.94	0.85			Grey Clay
WLC-073	WLC-073_222.9_226.7	67.94	69.1	1.16			Grey Clay
WLC-073	WLC-073_226.7_227.2	69.1	69.25	0.15			Grey Ash
WLC-073	WLC-073_227.2_228.3	69.25	69.59	0.34			Grey Clay
WLC-073	WLC-073_228.3_230.8	69.59	70.35	0.76			Grey Ash
WLC-073	WLC-073_230.8_231.2	70.35	70.47	0.12			Grey Clay
WLC-073	WLC-073_231.2_232.2	70.47	70.77	0.3			Arkose
WLC-073	WLC-073_232.2_235.3	70.77	71.72	0.95			Grey Clay
WLC-073	WLC-073_235.3_246.6	71.72	75.16	3.44			Arkose
WLC-073	WLC-073_246.6_248.2	75.16	75.65	0.49			Grey Clay
WLC-073	WLC-073_248.2_255.1	75.65	77.75	2.1			Grey Clay
WLC-073	WLC-073_255.1_259.6	77.75	79.13	1.38			Grey Clay
WLC-073	WLC-073_259.6_264.7	79.13	80.68	1.55			Arkose
WLC-073	WLC-073_264.7_265.6	80.68	80.95	0.27			Arkose
WLC-073	WLC-073_265.6_269.5	80.95	82.14	1.19			Grey Clay
WLC-073	WLC-073_269.5_272.6	82.14	83.09	0.95			Grey Clay
WLC-073	WLC-073_272.6_276.2	83.09	84.19	1.1			Arkose
WLC-073	WLC-073_276.2_277	84.19	84.43	0.24			Grey Clay
WLC-073	WLC-073_277_278.8	84.43	84.98	0.55			Light Grey Clay
WLC-073	WLC-073_278.8_280.8	84.98	85.59	0.61			Arkose
WLC-073	WLC-073_280.8_283.9	85.59	86.53	0.94			Grey Clay
WLC-073	WLC-073_283.9_291.4	86.53	88.82	2.29			Grey Clay
WLC-073	WLC-073_291.4_292.1	88.82	89.03	0.21			Arkose
WLC-073	WLC-073_292.1_295.3	89.03	90.01	0.98			Grey Clay
WLC-073	WLC-073_295.3_296.2	90.01	90.28	0.27			Grey Clay
WLC-073	WLC-073_296.2_302.2	90.28	92.11	1.83			Arkose
WLC-073	WLC-073_302.2_311	92.11	94.79	2.68			Grey Clay
WLC-073	WLC-073_311_313.6	94.79	95.59	0.8			Grey Clay
WLC-073	WLC-073_313.6_322.2	95.59	98.21	2.62			Grey Clay
WLC-073	WLC-073_322.2_323.9	98.21	98.72	0.51			Arkose
WLC-073	WLC-073_323.9_327.1	98.72	99.7	0.98			Grey Clay
WLC-073	WLC-073_327.1_341.2	99.7	104	4.3			Grey Clay
WLC-073	WLC-073_341.2_343.6	104	104.73	0.73			Grey Clay
WLC-073	WLC-073_343.6_351	104.73	106.98	2.25			Grey Clay
WLC-073	WLC-073_351_354.4	106.98	108.02	1.04			Grey Clay
WLC-073	WLC-073_354.4_354.9	108.02	108.17	0.15			Arkose
WLC-073	WLC-073_354.9_361.2	108.17	110.09	1.92			Grey Clay
WLC-073	WLC-073_361.2_363.5	110.09	110.79	0.7			Grey Clay
WLC-073	WLC-073_363.5_371.1	110.79	113.11	2.32			Arkose
WLC-073	WLC-073_371.1_371.6	113.11	113.26	0.15			Grey Clay
WLC-073	WLC-073_371.6_376.3	113.26	114.7	1.44			Grey Clay
WLC-073	WLC-073_376.3_377	114.7	114.91	0.21			Arkose
WLC-073	WLC-073_377_383	114.91	116.74	1.83			Grey Clay
WLC-073	WLC-073_383_383.7	116.74	116.95	0.21			Arkose
WLC-073	WLC-073_383.7_391.3	116.95	119.27	2.32			Grey Clay
WLC-073	WLC-073_391.3_395.5	119.27	120.55	1.28			Grey Clay
WLC-073	WLC-073_395.5_402.8	120.55	122.77	2.22			Grey Clay
WLC-073	WLC-073_402.8_403.7	122.77	123.05	0.28			White Ash

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
WLC-073	WLC-073_403.7_405	123.05	123.44	0.39			White Ash
WLC-073	WLC-073_405_406.9	123.44	124.02	0.58			Grey Clay
WLC-073	WLC-073_406.9_408.7	124.02	124.57	0.55			White Ash
WLC-073	WLC-073_408.7_410.3	124.57	125.06	0.49			NS
WLC-073	WLC-073_410.3_410.7	125.06	125.18	0.12			Grey Clay
WLC-073	WLC-073_410.7_412.4	125.18	125.7	0.52			Grey Clay
WLC-073	WLC-073_412.4_422.4	125.7	128.75	3.05			White Ash
WLC-073	WLC-073_422.4_426.6	128.75	130.03	1.28			White Ash
WLC-073	WLC-073_426.6_430.9	130.03	131.34	1.31			Grey Clay
WLC-073	WLC-073_430.9_432.9	131.34	131.95	0.61			Grey Clay
WLC-073	WLC-073_432.9_441.5	131.95	134.57	2.62			White Ash
WLC-073	WLC-073_441.5_444.2	134.57	135.39	0.82			Grey Clay
WLC-073	WLC-073_444.2_452.2	135.39	137.83	2.44			White Ash
WLC-073	WLC-073_452.2_458.2	137.83	139.66	1.83			Lahar
WLC-073	WLC-073_458.2_461.1	139.66	140.54	0.88			Lahar
WLC-073	WLC-073_461.1_475.1	140.54	144.81	4.27			Lahar
WLC-073	WLC-073_475.1_482.3	144.81	147.01	2.2			Lahar
WLC-073	WLC-073_482.3_486	147.01	148.13	1.12			Lahar
WLC-073	WLC-073_486_496.8	148.13	151.42	3.29			Lithic Tuff
WLC-074	WLC-074_0_31	0	9.45	9.45			Alluvium
WLC-074	WLC-074_31_31.3	9.45	9.54	0.09			White Ash
WLC-074	WLC-074_31.3_46.9	9.54	14.3	4.76			Sand
WLC-074	WLC-074_46.9_59.8	14.3	18.23	3.93			Sand
WLC-074	WLC-074_59.8_62	18.23	18.9	0.67			Tan Clay
WLC-074	WLC-074_62_77	18.9	23.47	4.57			Tan Clay
WLC-074	WLC-074_77_81.3	23.47	24.78	1.31			Sand
WLC-074	WLC-074_81.3_100	24.78	30.48	5.7			Sand
WLC-074	WLC-074_100_112	30.48	34.14	3.66			Sand
WLC-074	WLC-074_112_117	34.14	35.66	1.52			Tan Clay
WLC-074	WLC-074_117_130.4	35.66	39.75	4.09			Tan Clay
WLC-074	WLC-074_130.4_133	39.75	40.54	0.79			Tan Clay
WLC-074	WLC-074_133_152	40.54	46.33	5.79			Basalt
WLC-074	WLC-074_152_154.5	46.33	47.09	0.76			Basalt
WLC-074	WLC-074_154.5_163.8	47.09	49.93	2.84			Basalt
WLC-074	WLC-074_163.8_166.9	49.93	50.87	0.94			Basalt
WLC-074	WLC-074_166.9_167.7	50.87	51.11	0.24			Basalt
WLC-074	WLC-074_167.7_168.2	51.11	51.27	0.16			Basalt
WLC-074	WLC-074_168.2_169.6	51.27	51.69	0.42			Basalt
WLC-074	WLC-074_169.6_173.4	51.69	52.85	1.16			Basalt
WLC-074	WLC-074_173.4_195.6	52.85	59.62	6.77			Basalt
WLC-074	WLC-074_195.6_222	59.62	67.67	8.05			Volcanic Seds
WLC-074	WLC-074_222_222.8	67.67	67.91	0.24			White Ash
WLC-074	WLC-074_222.8_232.7	67.91	70.93	3.02			Volcanic Seds
WLC-074	WLC-074_232.7_233	70.93	71.02	0.09			White Ash
WLC-074	WLC-074_233_247.2	71.02	75.35	4.33			Volcanic Seds
WLC-074	WLC-074_247.2_253.2	75.35	77.18	1.83			Tan Ash
WLC-074	WLC-074_253.2_281	77.18	85.65	8.47			Basalt
WLC-074	WLC-074_281_317	85.65	96.62	10.97			Basalt
WLC-074	WLC-074_317_321.5	96.62	97.99	1.37			Tan Clay

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
WLC-074	WLC-074_321.5_325.2	97.99	99.12	1.13			Grey Clay
WLC-074	WLC-074_325.2_331.8	99.12	101.13	2.01			Light Grey Clay
WLC-074	WLC-074_331.8_335.4	101.13	102.23	1.1			Tan Ash
WLC-074	WLC-074_335.4_336.2	102.23	102.47	0.24			Grey Clay
WLC-074	WLC-074_336.2_348	102.47	106.07	3.6			Basalt
WLC-181	WLC-181_0_12	0	3.66	3.66			Alluvium
WLC-181	WLC-181_12_18.6	3.66	5.67	2.01			Tan Ash
WLC-181	WLC-181_18.6_25.6	5.67	7.8	2.13			Tan Clay
WLC-181	WLC-181_25.6_43.7	7.8	13.32	5.52			Tan Ash
WLC-181	WLC-181_43.7_57.9	13.32	17.65	4.33			Tan Ash
WLC-181	WLC-181_57.9_67.2	17.65	20.48	2.83			Tan Clay
WLC-181	WLC-181_67.2_72.2	20.48	22.01	1.53			Tan Ash
WLC-181	WLC-181_72.2_79	22.01	24.08	2.07			Basalt
WLC-181	WLC-181_79_81	24.08	24.69	0.61			Basalt
WLC-181	WLC-181_81_100.8	24.69	30.72	6.03			Basalt
WLC-182	WLC-182_0_65	0	19.81	19.81			Alluvium
WLC-182	WLC-182_65_69.8	19.81	21.28	1.47			Basalt
WLC-182	WLC-182_69.8_79.5	21.28	24.23	2.95			Basalt
WLC-182	WLC-182_79.5_93.1	24.23	28.38	4.15			Tan Ash
WLC-182	WLC-182_93.1_94.2	28.38	28.71	0.33			Grey Clay
WLC-182	WLC-182_94.2_98.1	28.71	29.9	1.19			Tan Ash
WLC-182	WLC-182_98.1_100.1	29.9	30.51	0.61			Tan Ash
WLC-185	WLC-185_0_76.7	0	23.38	23.38			Alluvium
WLC-185	WLC-185_76.7_81.2	23.38	24.75	1.37			Tan Ash
WLC-185	WLC-185_81.2_91.9	24.75	28.01	3.26			Tan Ash
WLC-185	WLC-185_91.9_92.8	28.01	28.29	0.28			Tan Ash
WLC-185	WLC-185_92.8_95.5	28.29	29.11	0.82			Tan Ash
WLC-185	WLC-185_95.5_102.5	29.11	31.24	2.13			Tan Ash
WLC-185	WLC-185_102.5_107	31.24	32.61	1.37			Tan Clay
WLC-185	WLC-185_107_121	32.61	36.88	4.27			Tan Ash
WLC-185	WLC-185_121_122	36.88	37.19	0.31			Tan Ash
WLC-185	WLC-185_122_123.8	37.19	37.73	0.54			Tan Ash
WLC-185	WLC-185_123.8_125.7	37.73	38.31	0.58			Tan Ash
WLC-185	WLC-185_125.7_128.6	38.31	39.2	0.89			Grey Ash
WLC-185	WLC-185_128.6_135	39.2	41.15	1.95			Tan Ash
WLC-185	WLC-185_135_138.6	41.15	42.25	1.1			Tan Clay
WLC-185	WLC-185_138.6_140.5	42.25	42.82	0.57			Basalt
WLC-185	WLC-185_140.5_141.6	42.82	43.16	0.34			Basalt
WLC-185	WLC-185_141.6_143.5	43.16	43.74	0.58			Basalt
WLC-185	WLC-185_143.5_167	43.74	50.9	7.16			Basalt
WLC-185	WLC-185_167_170	50.9	51.82	0.92			Basalt
WLC-185	WLC-185_170_184	51.82	56.08	4.26			Basalt
WLC-185	WLC-185_184_207	56.08	63.09	7.01			Basalt
WLC-185	WLC-185_207_218.9	63.09	66.72	3.63			Basalt
WLC-185	WLC-185_218.9_221.1	66.72	67.39	0.67			Tan Clay
WLC-185	WLC-185_221.1_234.6	67.39	71.51	4.12			Grey Ash
WLC-185	WLC-185_234.6_256.5	71.51	78.18	6.67			Basalt

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
WLC-185	WLC-185_256.5_287.6	78.18	87.66	9.48			Basalt
WLC-185	WLC-185_287.6_298.1	87.66	90.86	3.2			Basalt
WLC-185	WLC-185_298.1_311.6	90.86	94.98	4.12			Grey Ash

Appendix G

CTFS Lithium Drill Results

Clay Tailings Filter Stack Drillhole Data

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-009	LNC-009_0_10	0	3.05	3.05	40.4
LNC-009	LNC-009_10_20	3.05	6.1	3.05	44.2
LNC-009	LNC-009_20_30	6.1	9.14	3.04	60
LNC-009	LNC-009_30_40	9.14	12.19	3.05	65.6
LNC-009	LNC-009_40_50	12.19	15.24	3.05	86.8
LNC-009	LNC-009_50_60	15.24	18.29	3.05	67.7
LNC-009	LNC-009_60_67.7	18.29	20.63	2.34	52
LNC-009	LNC-009_67.7_72.8	20.63	22.19	1.56	68.5
LNC-009	LNC-009_72.8_78.8	22.19	24.02	1.83	90.1
LNC-009	LNC-009_78.8_82.1	24.02	25.02	1	113.5
LNC-009	LNC-009_82.1_85.8	25.02	26.15	1.13	30.8
LNC-009	LNC-009_85.8_92.6	26.15	28.22	2.07	166
LNC-009	LNC-009_92.6_96.8	28.22	29.5	1.28	295
LNC-009	LNC-009_96.8_101.1	29.5	30.82	1.32	154
LNC-009	LNC-009_101.1_106.8	30.82	32.55	1.73	147
LNC-009	LNC-009_106.8_107.8	32.55	32.86	0.31	109.5
LNC-009	LNC-009_107.8_111	32.86	33.83	0.97	128
LNC-009	LNC-009_111_115.5	33.83	35.2	1.37	90.5
LNC-009	LNC-009_115.5_117.3	35.2	35.75	0.55	210
LNC-009	LNC-009_117.3_121.2	35.75	36.94	1.19	520
LNC-009	LNC-009_121.2_123	36.94	37.49	0.55	250
LNC-009	LNC-009_123_125.6	37.49	38.28	0.79	141.5
LNC-009	LNC-009_125.6_127	38.28	38.71	0.43	26.6
LNC-009	LNC-009_127_130.8	38.71	39.87	1.16	190.5
LNC-009	LNC-009_130.8_133.6	39.87	40.72	0.85	156.5
LNC-009	LNC-009_133.6_135.6	40.72	41.33	0.61	434
LNC-009	LNC-009_135.6_137.2	41.33	41.82	0.49	99.2
LNC-009	LNC-009_137.2_141.4	41.82	43.1	1.28	120.5
LNC-009	LNC-009_141.4_142.8	43.1	43.53	0.43	70.4
LNC-009	LNC-009_142.8_146.7	43.53	44.71	1.18	49.4
LNC-009	LNC-009_146.7_149.9	44.71	45.69	0.98	45.3
LNC-009	LNC-009_149.9_152.8	45.69	46.57	0.88	56.3
LNC-009	LNC-009_152.8_155.1	46.57	47.27	0.7	35.6
LNC-009	LNC-009_155.1_160	47.27	48.77	1.5	51.8
LNC-009	LNC-009_160_165	48.77	50.29	1.52	48.9
LNC-009	LNC-009_165_169.3	50.29	51.6	1.31	53.5
LNC-009	LNC-009_169.3_175.6	51.6	53.52	1.92	100
LNC-009	LNC-009_175.6_182.9	53.52	55.75	2.23	40.8
LNC-009	LNC-009_182.9_192.3	55.75	58.61	2.86	48.9
LNC-009	LNC-009_192.3_202.7	58.61	61.78	3.17	62.7
LNC-009	LNC-009_202.7_208.2	61.78	63.46	1.68	90.8
LNC-009	LNC-009_208.2_209.9	63.46	63.98	0.52	60.2
LNC-009	LNC-009_209.9_214.7	63.98	65.44	1.46	69.7
LNC-009	LNC-009_214.7_217.6	65.44	66.32	0.88	26.5
LNC-009	LNC-009_217.6_220.8	66.32	67.3	0.98	23.5
LNC-009	LNC-009_220.8_224.1	67.3	68.31	1.01	105
LNC-009	LNC-009_224.1_226.1	68.31	68.92	0.61	47.8
LNC-009	LNC-009_226.1_227.6	68.92	69.37	0.45	27.7
LNC-009	LNC-009_227.6_233.2	69.37	71.08	1.71	51.2

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-009	LNC-009_233.2_236.6	71.08	72.12	1.04	277
LNC-009	LNC-009_236.6_239.8	72.12	73.09	0.97	184.5
LNC-009	LNC-009_239.8_248.4	73.09	75.71	2.62	148
LNC-009	LNC-009_248.4_256.4	75.71	78.15	2.44	417
LNC-009	LNC-009_256.4_258.4	78.15	78.76	0.61	191.5
LNC-009	LNC-009_258.4_263.4	78.76	80.28	1.52	204
LNC-009	LNC-009_263.4_266.1	80.28	81.11	0.83	550
LNC-009	LNC-009_266.1_269.4	81.11	82.11	1	470
LNC-009	LNC-009_269.4_275.9	82.11	84.09	1.98	570
LNC-009	LNC-009_275.9_279.3	84.09	85.13	1.04	570
LNC-009	LNC-009_279.3_287.7	85.13	87.69	2.56	112
LNC-009	LNC-009_287.7_292.3	87.69	89.09	1.4	167.5
LNC-009	LNC-009_292.3_296.5	89.09	90.37	1.28	590
LNC-009	LNC-009_296.5_302.6	90.37	92.23	1.86	103
LNC-009	LNC-009_302.6_312.1	92.23	95.13	2.9	258
LNC-009	LNC-009_312.1_315.5	95.13	96.16	1.03	1330
LNC-009	LNC-009_315.5_322.7	96.16	98.36	2.2	1780
LNC-009	LNC-009_322.7_327	98.36	99.67	1.31	800
LNC-009	LNC-009_327_333.5	99.67	101.65	1.98	269
LNC-009	LNC-009_333.5_340.2	101.65	103.69	2.04	242
LNC-009	LNC-009_340.2_344.2	103.69	104.91	1.22	264
LNC-009	LNC-009_344.2_347.6	104.91	105.95	1.04	1110
LNC-009	LNC-009_347.6_349.1	105.95	106.41	0.46	680
LNC-009	LNC-009_349.1_353.7	106.41	107.81	1.4	1610
LNC-009	LNC-009_353.7_359.7	107.81	109.64	1.83	322
LNC-009	LNC-009_359.7_367.6	109.64	112.04	2.4	176.5
LNC-009	LNC-009_367.6_377.6	112.04	115.09	3.05	55.8
LNC-009	LNC-009_377.6_385.8	115.09	117.59	2.5	413
LNC-009	LNC-009_385.8_391.9	117.59	119.45	1.86	680
LNC-009	LNC-009_391.9_395.6	119.45	120.58	1.13	480
LNC-009	LNC-009_395.6_397.6	120.58	121.19	0.61	960
LNC-009	LNC-009_397.6_400.6	121.19	122.1	0.91	1490
LNC-009	LNC-009_400.6_404.3	122.1	123.23	1.13	960
LNC-009	LNC-009_404.3_407	123.23	124.05	0.82	880
LNC-009	LNC-009_407_412	124.05	125.58	1.53	2140
LNC-009	LNC-009_412_418.9	125.58	127.68	2.1	2130
LNC-009	LNC-009_418.9_422.7	127.68	128.84	1.16	720
LNC-009	LNC-009_422.7_432.6	128.84	131.86	3.02	130
LNC-009	LNC-009_432.6_441.7	131.86	134.63	2.77	110.5
LNC-009	LNC-009_441.7_447.3	134.63	136.34	1.71	1360
LNC-009	LNC-009_447.3_452	136.34	137.77	1.43	1860
LNC-009	LNC-009_452_453.2	137.77	138.14	0.37	1990
LNC-009	LNC-009_453.2_459.3	138.14	139.99	1.85	1880
LNC-009	LNC-009_459.3_463.1	139.99	141.15	1.16	1580
LNC-009	LNC-009_463.1_468.1	141.15	142.68	1.53	1450
LNC-009	LNC-009_468.1_475.6	142.68	144.96	2.28	253
LNC-009	LNC-009_475.6_480	144.96	146.3	1.34	670
LNC-009	LNC-009_480_484.4	146.3	147.65	1.35	1520
LNC-009	LNC-009_484.4_488.7	147.65	148.96	1.31	1270
LNC-009	LNC-009_488.7_489.5	148.96	149.2	0.24	1530

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-009	LNC-009_489.5_496.1	149.2	151.21	2.01	610
LNC-009	LNC-009_496.1_497.5	151.21	151.64	0.43	366
LNC-009	LNC-009_497.5_507.6	151.64	154.72	3.08	243
LNC-009	LNC-009_507.6_509.1	154.72	155.17	0.45	3640
LNC-009	LNC-009_509.1_511.1	155.17	155.78	0.61	1560
LNC-009	LNC-009_511.1_517	155.78	157.58	1.8	1650
LNC-009	LNC-009_517_527	157.58	160.63	3.05	1140
LNC-009	LNC-009_527_533.7	160.63	162.67	2.04	2670
LNC-009	LNC-009_533.7_537.7	162.67	163.89	1.22	2960
LNC-009	LNC-009_537.7_545.1	163.89	166.15	2.26	990
LNC-009	LNC-009_545.1_549.2	166.15	167.4	1.25	720
LNC-009	LNC-009_549.2_551.1	167.4	167.98	0.58	2360
LNC-009	LNC-009_551.1_555.6	167.98	169.35	1.37	263
LNC-009	LNC-009_555.6_560	169.35	170.69	1.34	3720
LNC-009	LNC-009_560_565	170.69	172.21	1.52	3340
LNC-009	LNC-009_565_569.4	172.21	173.55	1.34	2900
LNC-009	LNC-009_569.4_575.2	173.55	175.32	1.77	860
LNC-009	LNC-009_575.2_576.2	175.32	175.63	0.31	760
LNC-009	LNC-009_576.2_582.7	175.63	177.61	1.98	810
LNC-009	LNC-009_582.7_587.6	177.61	179.1	1.49	1140
LNC-009	LNC-009_587.6_592.7	179.1	180.65	1.55	1650
LNC-009	LNC-009_592.7_597.6	180.65	182.15	1.5	1230
LNC-009	LNC-009_597.6_602.7	182.15	183.7	1.55	1250
LNC-009	LNC-009_602.7_607.6	183.7	185.2	1.5	1420
LNC-009	LNC-009_607.6_612.7	185.2	186.75	1.55	1240
LNC-009	LNC-009_612.7_617.6	186.75	188.24	1.49	1730
LNC-009	LNC-009_617.6_619.5	188.24	188.82	0.58	870
LNC-009	LNC-009_619.5_629.9	188.82	191.99	3.17	88.6
LNC-009	LNC-009_629.9_638.2	191.99	194.52	2.53	79.1
LNC-009	LNC-009_638.2_641.1	194.52	195.41	0.89	910
LNC-009	LNC-009_641.1_646.1	195.41	196.93	1.52	980
LNC-009	LNC-009_646.1_650.1	196.93	198.15	1.22	1450
LNC-009	LNC-009_650.1_654	198.15	199.34	1.19	1650
LNC-009	LNC-009_654_659	199.34	200.86	1.52	324
LNC-009	LNC-009_659_662.1	200.86	201.81	0.95	367
LNC-009	LNC-009_662.1_668.6	201.81	203.79	1.98	1270
LNC-009	LNC-009_668.6_673	203.79	205.13	1.34	281
LNC-009	LNC-009_673_679.6	205.13	207.14	2.01	43.5
LNC-009	LNC-009_679.6_682	207.14	207.87	0.73	110.5
LNC-009	LNC-009_682_687.6	207.87	209.58	1.71	1150
LNC-009	LNC-009_687.6_691.3	209.58	210.71	1.13	2800
LNC-009	LNC-009_691.3_695.2	210.71	211.9	1.19	272
LNC-009	LNC-009_695.2_699.3	211.9	213.15	1.25	1300
LNC-009	LNC-009_699.3_702	213.15	213.97	0.82	161
LNC-009	LNC-009_702_708	213.97	215.8	1.83	3250
LNC-009	LNC-009_708_711.8	215.8	216.96	1.16	2080
LNC-009	LNC-009_711.8_715.6	216.96	218.11	1.15	880
LNC-009	LNC-009_715.6_722.5	218.11	220.22	2.11	3060
LNC-009	LNC-009_722.5_724.8	220.22	220.92	0.7	2470
LNC-009	LNC-009_724.8_727.3	220.92	221.68	0.76	4050

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-009	LNC-009_727.3_729	221.68	222.2	0.52	1160
LNC-009	LNC-009_729_733.3	222.2	223.51	1.31	2630
LNC-009	LNC-009_733.3_737.7	223.51	224.85	1.34	3270
LNC-009	LNC-009_737.7_741.2	224.85	225.92	1.07	4050
LNC-009	LNC-009_741.2_746.8	225.92	227.62	1.7	2510
LNC-009	LNC-009_746.8_752.6	227.62	229.39	1.77	2110
LNC-009	LNC-009_752.6_755.3	229.39	230.22	0.83	3200
LNC-009	LNC-009_755.3_760	230.22	231.65	1.43	2800
LNC-115	LNC-115_0_15.7	0	4.79	4.79	48.1
LNC-115	LNC-115_15.7_31.6	4.79	9.63	4.84	33.5
LNC-115	LNC-115_31.6_53.6	9.63	16.34	6.71	40.5
LNC-115	LNC-115_53.6_74.6	16.34	22.74	6.4	46.8
LNC-115	LNC-115_74.6_95	22.74	28.96	6.22	52.6
LNC-115	LNC-115_95_100.9	28.96	30.75	1.79	30.1
LNC-115	LNC-115_100.9_114.4	30.75	34.87	4.12	66.1
LNC-115	LNC-115_114.4_126.8	34.87	38.65	3.78	50.1
LNC-115	LNC-115_126.8_140.9	38.65	42.95	4.3	40.8
LNC-115	LNC-115_140.9_154	42.95	46.94	3.99	72.2
LNC-115	LNC-115_154_162.6	46.94	49.56	2.62	68.3
LNC-115	LNC-115_162.6_171.7	49.56	52.33	2.77	114.5
LNC-115	LNC-115_171.7_173	52.33	52.73	0.4	125.5
LNC-115	LNC-115_173_176	52.73	53.64	0.91	192
LNC-115	LNC-115_176_177	53.64	53.95	0.31	118
LNC-115	LNC-115_177_182.8	53.95	55.72	1.77	210
LNC-115	LNC-115_182.8_188.1	55.72	57.33	1.61	190
LNC-115	LNC-115_188.1_193.7	57.33	59.04	1.71	94.8
LNC-115	LNC-115_193.7_194.7	59.04	59.34	0.3	108
LNC-115	LNC-115_194.7_196.1	59.34	59.77	0.43	76.6
LNC-115	LNC-115_196.1_197.1	59.77	60.08	0.31	82.2
LNC-115	LNC-115_197.1_198.1	60.08	60.38	0.3	40.4
LNC-115	LNC-115_198.1_203.1	60.38	61.9	1.52	98.2
LNC-115	LNC-115_203.1_208.1	61.9	63.43	1.53	69.2
LNC-115	LNC-115_208.1_211.4	63.43	64.43	1	156.5
LNC-115	LNC-115_211.4_221.4	64.43	67.48	3.05	106.5
LNC-115	LNC-115_221.4_230	67.48	70.1	2.62	62.9
LNC-115	LNC-115_230_239.4	70.1	72.97	2.87	65.8
LNC-115	LNC-115_239.4_242.2	72.97	73.82	0.85	27.8
LNC-115	LNC-115_242.2_245.3	73.82	74.77	0.95	206
LNC-115	LNC-115_245.3_249.4	74.77	76.02	1.25	93.2
LNC-115	LNC-115_249.4_256.9	76.02	78.3	2.28	125
LNC-115	LNC-115_256.9_263.4	78.3	80.28	1.98	155.5
LNC-115	LNC-115_263.4_271.6	80.28	82.78	2.5	195.5
LNC-115	LNC-115_271.6_278.8	82.78	84.98	2.2	235
LNC-115	LNC-115_278.8_282.4	84.98	86.08	1.1	233
LNC-115	LNC-115_282.4_292.4	86.08	89.12	3.04	184
LNC-115	LNC-115_292.4_298	89.12	90.83	1.71	176.5
LNC-115	LNC-115_298_305	90.83	92.96	2.13	226
LNC-115	LNC-115_308.3_318.3	93.97	97.02	3.05	300
LNC-115	LNC-115_318.3_328.3	97.02	100.07	3.05	241

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-115	LNC-115_328.3_338.3	100.07	103.11	3.04	124
LNC-115	LNC-115_338.3_348.3	103.11	106.16	3.05	215
LNC-115	LNC-115_348.3_358.4	106.16	109.24	3.08	222
LNC-115	LNC-115_358.4_368.4	109.24	112.29	3.05	1230
LNC-115	LNC-115_368.4_377.9	112.29	115.18	2.89	700
LNC-115	LNC-115_377.9_383.7	115.18	116.95	1.77	274
LNC-115	LNC-115_383.7_390.1	116.95	118.9	1.95	920
LNC-115	LNC-115_390.1_396.8	118.9	120.94	2.04	410
LNC-115	LNC-115_401.8_406.8	122.47	123.99	1.52	372
LNC-115	LNC-115_406.8_411.8	123.99	125.52	1.53	201
LNC-115	LNC-115_411.8_416.8	125.52	127.04	1.52	171.5
LNC-115	LNC-115_416.8_421.8	127.04	128.56	1.52	144.5
LNC-115	LNC-115_421.8_426.8	128.56	130.09	1.53	195.5
LNC-115	LNC-115_426.8_429.3	130.09	130.85	0.76	440
LNC-115	LNC-115_429.3_434.3	130.85	132.37	1.52	640
LNC-115	LNC-115_434.3_439.3	132.37	133.9	1.53	1370
LNC-115	LNC-115_439.3_444.3	133.9	135.42	1.52	740
LNC-115	LNC-115_444.3_449.3	135.42	136.95	1.53	1760
LNC-115	LNC-115_449.3_454.3	136.95	138.47	1.52	1900
LNC-115	LNC-115_454.3_457.8	138.47	139.54	1.07	690
LNC-115	LNC-115_457.8_467.8	139.54	142.59	3.05	176
LNC-115	LNC-115_467.8_476.7	142.59	145.3	2.71	99.8
LNC-115	LNC-115_476.7_481.7	145.3	146.82	1.52	1320
LNC-115	LNC-115_481.7_486.7	146.82	148.35	1.53	1680
LNC-115	LNC-115_486.7_491.7	148.35	149.87	1.52	1580
LNC-115	LNC-115_491.7_496.7	149.87	151.39	1.52	1260
LNC-115	LNC-115_496.7_501.7	151.39	152.92	1.53	1240
LNC-115	LNC-115_501.7_506.8	152.92	154.47	1.55	710
LNC-115	LNC-115_506.8_510.3	154.47	155.54	1.07	1090
LNC-115	LNC-115_510.3_513.8	155.54	156.61	1.07	318
LNC-115	LNC-115_513.8_523.8	156.61	159.65	3.04	90.5
LNC-115	LNC-115_523.8_533.8	159.65	162.7	3.05	39.4
LNC-115	LNC-115_533.8_543.8	162.7	165.75	3.05	23.1
LNC-115	LNC-115_543.8_548.3	165.75	167.12	1.37	23.9
LNC-121	LNC-121_0_18.3	0	5.58	5.58	44
LNC-121	LNC-121_18.3_29.9	5.58	9.11	3.53	57.4
LNC-121	LNC-121_29.9_40	9.11	12.19	3.08	58.4
LNC-121	LNC-121_40_53	12.19	16.15	3.96	53
LNC-121	LNC-121_53_67.8	16.15	20.67	4.52	57.9
LNC-121	LNC-121_67.8_80	20.67	24.38	3.71	46.4
LNC-121	LNC-121_80_102	24.38	31.09	6.71	42.5
LNC-121	LNC-121_102_124	31.09	37.8	6.71	42.6
LNC-121	LNC-121_124_139.9	37.8	42.64	4.84	40.6
LNC-121	LNC-121_139.9_152	42.64	46.33	3.69	51.8
LNC-121	LNC-121_152_173.7	46.33	52.94	6.61	46.3
LNC-121	LNC-121_173.7_193.5	52.94	58.98	6.04	45.5
LNC-121	LNC-121_193.5_213.2	58.98	64.98	6	40.7
LNC-121	LNC-121_213.2_235	64.98	71.63	6.65	56.9
LNC-121	LNC-121_235_257	71.63	78.33	6.7	88.6

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-121	LNC-121_257_278.6	78.33	84.92	6.59	93.1
LNC-121	LNC-121_278.6_300.3	84.92	91.53	6.61	137
LNC-121	LNC-121_300.3_321	91.53	97.84	6.31	130
LNC-121	LNC-121_321_330.1	97.84	100.61	2.77	191.5
LNC-121	LNC-121_330.1_335.3	100.61	102.2	1.59	243
LNC-121	LNC-121_335.3_340	102.2	103.63	1.43	152.5
LNC-121	LNC-121_340_344.3	103.63	104.94	1.31	158
LNC-121	LNC-121_344.3_348.7	104.94	106.28	1.34	160.5
LNC-121	LNC-121_348.7_354	106.28	107.9	1.62	1950
LNC-121	LNC-121_354_358.3	107.9	109.21	1.31	470
LNC-121	LNC-121_358.3_362.8	109.21	110.58	1.37	75.7
LNC-121	LNC-121_362.8_367.2	110.58	111.92	1.34	50.7
LNC-121	LNC-121_367.2_372.1	111.92	113.42	1.5	21.7
LNC-121	LNC-121_372.1_376.4	113.42	114.73	1.31	199.5
LNC-121	LNC-121_376.4_381.1	114.73	116.16	1.43	990
LNC-121	LNC-121_381.1_385.9	116.16	117.62	1.46	1220
LNC-121	LNC-121_385.9_390.8	117.62	119.12	1.5	1030
LNC-121	LNC-121_390.8_396.1	119.12	120.73	1.61	1710
LNC-121	LNC-121_396.1_403.6	120.73	123.02	2.29	222
LNC-121	LNC-121_403.6_412.5	123.02	125.73	2.71	145
LNC-121	LNC-121_412.5_420.2	125.73	128.08	2.35	119.5
LNC-121	LNC-121_420.2_428.1	128.08	130.48	2.4	92.1
LNC-121	LNC-121_428.1_436.3	130.48	132.98	2.5	96.4
LNC-121	LNC-121_436.3_445.2	132.98	135.7	2.72	106
LNC-121	LNC-121_445.2_454	135.7	138.38	2.68	87.9
LNC-121	LNC-121_454_463.5	138.38	141.27	2.89	62.4
LNC-121	LNC-121_463.5_472.5	141.27	144.02	2.75	71.9
LNC-121	LNC-121_472.5_481.2	144.02	146.67	2.65	71.9
LNC-121	LNC-121_481.2_487.7	146.67	148.65	1.98	240
LNC-121	LNC-121_487.7_492.4	148.65	150.08	1.43	402
LNC-121	LNC-121_492.4_497.2	150.08	151.55	1.47	1660
LNC-121	LNC-121_497.2_501.5	151.55	152.86	1.31	1750
LNC-121	LNC-121_501.5_505.7	152.86	154.14	1.28	3270
LNC-121	LNC-121_505.7_510	154.14	155.45	1.31	2920
LNC-121	LNC-121_510_514	155.45	156.67	1.22	2860
LNC-121	LNC-121_514_520.4	156.67	158.62	1.95	3240
LNC-121	LNC-121_520.4_532.8	158.62	162.4	3.78	2420
LNC-121	LNC-121_532.8_537.4	162.4	163.8	1.4	2990
LNC-121	LNC-121_537.4_542.1	163.8	165.23	1.43	2250
LNC-121	LNC-121_542.1_546.3	165.23	166.51	1.28	1490
LNC-121	LNC-121_546.3_555.6	166.51	169.35	2.84	1160
LNC-121	LNC-121_555.6_559	169.35	170.38	1.03	720
LNC-121	LNC-121_559_563.3	170.38	171.69	1.31	850
LNC-121	LNC-121_563.3_567.6	171.69	173	1.31	438
LNC-121	LNC-121_567.6_574.8	173	175.2	2.2	81.4
LNC-121	LNC-121_574.8_579.3	175.2	176.57	1.37	960
LNC-121	LNC-121_579.3_583.8	176.57	177.94	1.37	760
LNC-121	LNC-121_583.8_588.6	177.94	179.41	1.47	2020
LNC-121	LNC-121_588.6_593.3	179.41	180.84	1.43	1330
LNC-121	LNC-121_593.3_597.6	180.84	182.15	1.31	1300

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-121	LNC-121_597.6_602.1	182.15	183.52	1.37	1180
LNC-121	LNC-121_602.1_605.7	183.52	184.62	1.1	2500
LNC-121	LNC-121_605.7_610	184.62	185.93	1.31	2700
LNC-132	LNC-132_0_18.4	0	5.61	5.61	96.8
LNC-132	LNC-132_18.4_29.5	5.61	8.99	3.38	296
LNC-132	LNC-132_29.5_38.7	8.99	11.8	2.81	156.5
LNC-132	LNC-132_38.7_49.1	11.8	14.97	3.17	215
LNC-132	LNC-132_49.1_58.6	14.97	17.86	2.89	174.5
LNC-132	LNC-132_58.6_68.7	17.86	20.94	3.08	76.6
LNC-132	LNC-132_68.7_77.1	20.94	23.5	2.56	146
LNC-132	LNC-132_77.1_86.2	23.5	26.27	2.77	165.5
LNC-132	LNC-132_86.2_95.3	26.27	29.05	2.78	165
LNC-132	LNC-132_95.3_104.7	29.05	31.91	2.86	177.5
LNC-132	LNC-132_104.7_115.1	31.91	35.08	3.17	123
LNC-132	LNC-132_115.1_123.2	35.08	37.55	2.47	132
LNC-132	LNC-132_123.2_133	37.55	40.54	2.99	183
LNC-132	LNC-132_133_141.4	40.54	43.1	2.56	129.5
LNC-132	LNC-132_141.4_150.8	43.1	45.96	2.86	137.5
LNC-132	LNC-132_150.8_161.2	45.96	49.13	3.17	171.5
LNC-132	LNC-132_161.2_170.8	49.13	52.06	2.93	97.3
LNC-132	LNC-132_170.8_178.9	52.06	54.53	2.47	120
LNC-132	LNC-132_178.9_188.3	54.53	57.39	2.86	142
LNC-132	LNC-132_188.3_196.5	57.39	59.89	2.5	101.5
LNC-132	LNC-132_196.5_205.8	59.89	62.73	2.84	101.5
LNC-132	LNC-132_205.8_216.8	62.73	66.08	3.35	85.6
LNC-132	LNC-132_216.8_225.7	66.08	68.79	2.71	97.6
LNC-132	LNC-132_225.7_234.6	68.79	71.51	2.72	119.5
LNC-132	LNC-132_234.6_242.3	71.51	73.85	2.34	132
LNC-132	LNC-132_242.3_252.3	73.85	76.9	3.05	98.7
LNC-132	LNC-132_252.3_260.9	76.9	79.52	2.62	106.5
LNC-132	LNC-132_260.9_270.3	79.52	82.39	2.87	104
LNC-132	LNC-132_270.3_279.8	82.39	85.28	2.89	117
LNC-132	LNC-132_279.8_288.9	85.28	88.06	2.78	174
LNC-132	LNC-132_288.9_298.2	88.06	90.89	2.83	196
LNC-132	LNC-132_298.2_307.2	90.89	93.63	2.74	184.5
LNC-132	LNC-132_307.2_317.2	93.63	96.68	3.05	222
LNC-132	LNC-132_317.2_327.1	96.68	99.7	3.02	179.5
LNC-132	LNC-132_327.1_331.6	99.7	101.07	1.37	193
LNC-134	LNC-134_0_21.7	0	6.61	6.61	47.7
LNC-134	LNC-134_21.7_26.8	6.61	8.17	1.56	145
LNC-134	LNC-134_27.4_35	8.35	10.67	2.32	155.5
LNC-134	LNC-134_35_45	10.67	13.72	3.05	156
LNC-134	LNC-134_45_55	13.72	16.76	3.04	130
LNC-134	LNC-134_55_65	16.76	19.81	3.05	156.5
LNC-134	LNC-134_65_75	19.81	22.86	3.05	148
LNC-134	LNC-134_75_85	22.86	25.91	3.05	141
LNC-134	LNC-134_85_95	25.91	28.96	3.05	164
LNC-134	LNC-134_95_105	28.96	32	3.04	142

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-134	LNC-134_105_115	32	35.05	3.05	154.5
LNC-134	LNC-134_115_125	35.05	38.1	3.05	159
LNC-134	LNC-134_125_135	38.1	41.15	3.05	138
LNC-134	LNC-134_135_145	41.15	44.2	3.05	150.5
LNC-134	LNC-134_145_155	44.2	47.24	3.04	168.5
LNC-134	LNC-134_155_165	47.24	50.29	3.05	142
LNC-134	LNC-134_165_175	50.29	53.34	3.05	133.5
LNC-134	LNC-134_175_185	53.34	56.39	3.05	163
LNC-134	LNC-134_185_195	56.39	59.44	3.05	133
LNC-134	LNC-134_195_205	59.44	62.48	3.04	98
LNC-134	LNC-134_205_215	62.48	65.53	3.05	110.5
LNC-134	LNC-134_215_225	65.53	68.58	3.05	78.9
LNC-134	LNC-134_225_235	68.58	71.63	3.05	138
LNC-134	LNC-134_235_245	71.63	74.68	3.05	283
LNC-134	LNC-134_245_252	74.68	76.81	2.13	304
LNC-134	LNC-134_252_258.8	76.81	78.88	2.07	228
LNC-134	LNC-134_258.8_264	78.88	80.47	1.59	3030
LNC-134	LNC-134_264_268	80.47	81.69	1.22	2230
LNC-134	LNC-134_268_273	81.69	83.21	1.52	570
LNC-134	LNC-134_273_277	83.21	84.43	1.22	630
LNC-134	LNC-134_277_285	84.43	86.87	2.44	540
LNC-134	LNC-134_285_290	86.87	88.39	1.52	353
LNC-134	LNC-134_290_295	88.39	89.92	1.53	184.5
LNC-134	LNC-134_295_305	89.92	92.96	3.04	42.6
LNC-134	LNC-134_305_310	92.96	94.49	1.53	56.5
LNC-134	LNC-134_310_315	94.49	96.01	1.52	385
LNC-134	LNC-134_315_320	96.01	97.54	1.53	1240
LNC-134	LNC-134_320_325	97.54	99.06	1.52	1780
LNC-134	LNC-134_325_330	99.06	100.58	1.52	1200
LNC-134	LNC-134_330_333	100.58	101.5	0.92	115
LNC-134	LNC-134_333_339	101.5	103.33	1.83	141.5
LNC-134	LNC-134_339_344.6	103.33	105.03	1.7	133.5
LNC-134	LNC-134_344.6_349.9	105.03	106.65	1.62	135.5
LNC-134	LNC-134_349.9_356.7	106.65	108.72	2.07	131.5
LNC-134	LNC-134_356.7_370	108.72	112.78	4.06	98.2
LNC-134	LNC-134_370_380	112.78	115.82	3.04	110.5
LNC-134	LNC-134_380_390	115.82	118.87	3.05	81.9
LNC-134	LNC-134_390_400	118.87	121.92	3.05	52.3
LNC-134	LNC-134_400_410	121.92	124.97	3.05	50.2
LNC-134	LNC-134_410_418	124.97	127.41	2.44	85.1
LNC-134	LNC-134_418_424.9	127.41	129.51	2.1	69.7
LNC-134	LNC-134_424.9_429	129.51	130.76	1.25	1110
LNC-134	LNC-134_429_432.5	130.76	131.83	1.07	196
LNC-134	LNC-134_432.5_437	131.83	133.2	1.37	28.2
LNC-134	LNC-134_437_441	133.2	134.42	1.22	40.4
LNC-134	LNC-134_441_445	134.42	135.64	1.22	1660
LNC-134	LNC-134_445_449	135.64	136.86	1.22	1750
LNC-134	LNC-134_449_455	136.86	138.68	1.82	4190
LNC-134	LNC-134_455_460	138.68	140.21	1.53	1190
LNC-134	LNC-134_460_465	140.21	141.73	1.52	1460

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-134	LNC-134_465_470	141.73	143.26	1.53	2940
LNC-134	LNC-134_470_475	143.26	144.78	1.52	3500
LNC-134	LNC-134_475_480	144.78	146.3	1.52	2310
LNC-134	LNC-134_480_486	146.3	148.13	1.83	1420
LNC-134	LNC-134_486_492.2	148.13	150.02	1.89	2500
LNC-134	LNC-134_492.2_498	150.02	151.79	1.77	1100
LNC-134	LNC-134_498_504	151.79	153.62	1.83	1560
LNC-134	LNC-134_504_510	153.62	155.45	1.83	3140
LNC-134	LNC-134_510_515	155.45	156.97	1.52	3070
LNC-134	LNC-134_515_520	156.97	158.5	1.53	3630
LNC-134	LNC-134_520_525	158.5	160.02	1.52	4270
LNC-134	LNC-134_525_530	160.02	161.54	1.52	2050
LNC-134	LNC-134_530_535	161.54	163.07	1.53	3320
LNC-134	LNC-134_535_540	163.07	164.59	1.52	3850
LNC-134	LNC-134_540_545	164.59	166.12	1.53	2640
LNC-134	LNC-134_545_550	166.12	167.64	1.52	3510
LNC-134	LNC-134_550_555	167.64	169.16	1.52	2950
LNC-134	LNC-134_555_560	169.16	170.69	1.53	4740
LNC-134	LNC-134_560_565	170.69	172.21	1.52	3190
LNC-134	LNC-134_565_570	172.21	173.74	1.53	4410
LNC-134	LNC-134_570_575	173.74	175.26	1.52	2490
LNC-134	LNC-134_575_580	175.26	176.78	1.52	2900
LNC-134	LNC-134_580_585	176.78	178.31	1.53	3440
LNC-134	LNC-134_585_590	178.31	179.83	1.52	2100
LNC-134	LNC-134_590_595	179.83	181.36	1.53	3300
LNC-134	LNC-134_595_600	181.36	182.88	1.52	6360
LNC-134	LNC-134_600_605	182.88	184.4	1.52	2090
LNC-134	LNC-134_605_610	184.4	185.93	1.53	6810
LNC-134	LNC-134_610_615	185.93	187.45	1.52	5920
LNC-134	LNC-134_615_620	187.45	188.98	1.53	4160
LNC-134	LNC-134_620_625	188.98	190.5	1.52	3430
LNC-134	LNC-134_625_630	190.5	192.02	1.52	5530
LNC-134	LNC-134_630_635	192.02	193.55	1.53	5350
LNC-134	LNC-134_635_640	193.55	195.07	1.52	3360
LNC-134	LNC-134_640_645	195.07	196.6	1.53	1030
LNC-134	LNC-134_645_650	196.6	198.12	1.52	3670
LNC-134	LNC-134_650_655	198.12	199.64	1.52	790
LNC-134	LNC-134_655_660	199.64	201.17	1.53	4160
LNC-134	LNC-134_660_665	201.17	202.69	1.52	3020
LNC-134	LNC-134_665_670	202.69	204.22	1.53	3120
LNC-134	LNC-134_670_675.1	204.22	205.77	1.55	2980
LNC-134	LNC-134_675.1_682.3	205.77	207.97	2.2	2130
LNC-134	LNC-134_682.3_686	207.97	209.09	1.12	3750
LNC-134	LNC-134_686_691	209.09	210.62	1.53	2760
LNC-134	LNC-134_691_696	210.62	212.14	1.52	870
LNC-134	LNC-134_696_701.3	212.14	213.76	1.62	3310
LNC-143	LNC-143_3_11	0.91	3.35	2.44	86.5
LNC-143	LNC-143_11_21.1	3.35	6.43	3.08	101.5
LNC-143	LNC-143_21.1_26	6.43	7.92	1.49	90.2

Drill Hole	Sample Name	From	To	Interval Length	Li_Best_ppm
LNC-143	LNC-143_26_34.8	7.92	10.61	2.69	97.3
LNC-143	LNC-143_34.8_41.7	10.61	12.71	2.1	660
LNC-143	LNC-143_41.7_46.7	12.71	14.23	1.52	299
LNC-143	LNC-143_46.7_51.7	14.23	15.76	1.53	600
LNC-143	LNC-143_51.7_56.7	15.76	17.28	1.52	900
LNC-143	LNC-143_56.7_61.4	17.28	18.71	1.43	1370
LNC-143	LNC-143_61.4_66.4	18.71	20.24	1.53	2380
LNC-143	LNC-143_66.4_71.4	20.24	21.76	1.52	1300
LNC-143	LNC-143_71.4_76.4	21.76	23.29	1.53	263
LNC-143	LNC-143_76.4_86.1	23.29	26.24	2.95	199.5
LNC-143	LNC-143_86.1_94.2	26.24	28.71	2.47	207
LNC-143	LNC-143_94.2_100	28.71	30.48	1.77	790
LNC-143	LNC-143_100_104.7	30.48	31.91	1.43	1480
LNC-143	LNC-143_104.7_110.8	31.91	33.77	1.86	1780
LNC-143	LNC-143_110.8_118.2	33.77	36.03	2.26	1050
LNC-143	LNC-143_118.2_126.2	36.03	38.47	2.44	167.5
LNC-143	LNC-143_126.2_135	38.47	41.15	2.68	50
LNC-143	LNC-143_135_145	41.15	44.2	3.05	26.3
LNC-143	LNC-143_145_155.5	44.2	47.4	3.2	20.5
LNC-143	LNC-143_155.5_165	47.4	50.29	2.89	38.1
LNC-143	LNC-143_165_175	50.29	53.34	3.05	61
LNC-143	LNC-143_175_185.3	53.34	56.48	3.14	94.6
LNC-143	LNC-143_186.9_195	56.97	59.44	2.47	89.3
LNC-143	LNC-143_195_205	59.44	62.48	3.04	36.3
LNC-143	LNC-143_205_215	62.48	65.53	3.05	125
LNC-143	LNC-143_215_225	65.53	68.58	3.05	198
LNC-143	LNC-143_225_235	68.58	71.63	3.05	183.5
LNC-143	LNC-143_235_245	71.63	74.68	3.05	180
LNC-143	LNC-143_245_254.4	74.68	77.54	2.86	184

Appendix H

CTFS Drill Hole Lithology

CTFS Lithology

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-009	LNC-009_0_67.7	0	20.63	20.63	0	67.7	Alluvium
LNC-009	LNC-009_67.7_78.8	20.63	24.02	3.39	67.7	78.8	Tan Clay
LNC-009	LNC-009_78.8_82.1	24.02	25.02	1	78.8	82.1	Grey Ash
LNC-009	LNC-009_82.1_85.8	25.02	26.15	1.13	82.1	85.8	Arkose
LNC-009	LNC-009_85.8_92.6	26.15	28.22	2.07	85.8	92.6	White Ash
LNC-009	LNC-009_92.6_93.2	28.22	28.41	0.19	92.6	93.2	White Ash
LNC-009	LNC-009_93.2_101.1	28.41	30.82	2.41	93.2	101.1	White Ash
LNC-009	LNC-009_101.1_101.5	30.82	30.94	0.12	101.1	101.5	Tan Clay
LNC-009	LNC-009_101.5_106.8	30.94	32.55	1.61	101.5	106.8	White Ash
LNC-009	LNC-009_106.8_107.8	32.55	32.86	0.31	106.8	107.8	White Ash
LNC-009	LNC-009_107.8_115.5	32.86	35.2	2.34	107.8	115.5	White Ash
LNC-009	LNC-009_115.5_116.6	35.2	35.54	0.34	115.5	116.6	Light Grey Clay
LNC-009	LNC-009_116.6_117.3	35.54	35.75	0.21	116.6	117.3	Grey Ash
LNC-009	LNC-009_117.3_121.2	35.75	36.94	1.19	117.3	121.2	Tan Clay
LNC-009	LNC-009_121.2_123	36.94	37.49	0.55	121.2	123	White Ash
LNC-009	LNC-009_123_125.6	37.49	38.28	0.79	123	125.6	Tan Clay
LNC-009	LNC-009_125.6_127	38.28	38.71	0.43	125.6	127	Arkose
LNC-009	LNC-009_127_130.8	38.71	39.87	1.16	127	130.8	Tan Clay
LNC-009	LNC-009_130.8_131.5	39.87	40.08	0.21	130.8	131.5	Arkose
LNC-009	LNC-009_131.5_132.4	40.08	40.36	0.28	131.5	132.4	White Ash
LNC-009	LNC-009_132.4_133.6	40.36	40.72	0.36	132.4	133.6	Arkose
LNC-009	LNC-009_133.6_135.6	40.72	41.33	0.61	133.6	135.6	Tan Clay
LNC-009	LNC-009_135.6_137.2	41.33	41.82	0.49	135.6	137.2	Arkose
LNC-009	LNC-009_137.2_141.4	41.82	43.1	1.28	137.2	141.4	Tan Clay
LNC-009	LNC-009_141.4_142.8	43.1	43.53	0.43	141.4	142.8	Arkose
LNC-009	LNC-009_142.8_146.7	43.53	44.71	1.18	142.8	146.7	Grey Clay
LNC-009	LNC-009_146.7_149.9	44.71	45.69	0.98	146.7	149.9	Arkose
LNC-009	LNC-009_149.9_152.8	45.69	46.57	0.88	149.9	152.8	RheomorphTuff
LNC-009	LNC-009_152.8_155.1	46.57	47.27	0.7	152.8	155.1	Grey Clay
LNC-009	LNC-009_155.1_156.2	47.27	47.61	0.34	155.1	156.2	Arkose
LNC-009	LNC-009_156.2_157.2	47.61	47.91	0.3	156.2	157.2	Tan Clay
LNC-009	LNC-009_157.2_158.8	47.91	48.4	0.49	157.2	158.8	Arkose
LNC-009	LNC-009_158.8_169.3	48.4	51.6	3.2	158.8	169.3	White Ash
LNC-009	LNC-009_169.3_170.7	51.6	52.03	0.43	169.3	170.7	RheomorphTuff
LNC-009	LNC-009_170.7_173.1	52.03	52.76	0.73	170.7	173.1	Arkose
LNC-009	LNC-009_173.1_173.9	52.76	53	0.24	173.1	173.9	RheomorphTuff
LNC-009	LNC-009_173.9_175.6	53	53.52	0.52	173.9	175.6	Grey Ash
LNC-009	LNC-009_175.6_182.9	53.52	55.75	2.23	175.6	182.9	Arkose
LNC-009	LNC-009_182.9_184	55.75	56.08	0.33	182.9	184	White Ash
LNC-009	LNC-009_184_202.7	56.08	61.78	5.7	184	202.7	Arkose
LNC-009	LNC-009_202.7_208.2	61.78	63.46	1.68	202.7	208.2	Tan Clay
LNC-009	LNC-009_208.2_209.9	63.46	63.98	0.52	208.2	209.9	Tan Clay
LNC-009	LNC-009_209.9_214.3	63.98	65.32	1.34	209.9	214.3	Tan Clay
LNC-009	LNC-009_214.3_214.7	65.32	65.44	0.12	214.3	214.7	White Clay
LNC-009	LNC-009_214.7_217.6	65.44	66.32	0.88	214.7	217.6	Arkose
LNC-009	LNC-009_217.6_217.9	66.32	66.42	0.1	217.6	217.9	Grey Clay
LNC-009	LNC-009_217.9_218.8	66.42	66.69	0.27	217.9	218.8	Grey Ash
LNC-009	LNC-009_218.8_219.1	66.69	66.78	0.09	218.8	219.1	Grey Clay
LNC-009	LNC-009_219.1_220.8	66.78	67.3	0.52	219.1	220.8	Grey Ash

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-009	LNC-009_220.8_224.1	67.3	68.31	1.01	220.8	224.1	Tan Clay
LNC-009	LNC-009_224.1_226.1	68.31	68.92	0.61	224.1	226.1	White Clay
LNC-009	LNC-009_226.1_227.6	68.92	69.37	0.45	226.1	227.6	Grey Ash
LNC-009	LNC-009_227.6_228.5	69.37	69.65	0.28	227.6	228.5	White Clay
LNC-009	LNC-009_228.5_233.2	69.65	71.08	1.43	228.5	233.2	White Clay
LNC-009	LNC-009_233.2_234.3	71.08	71.41	0.33	233.2	234.3	White Ash
LNC-009	LNC-009_234.3_236.6	71.41	72.12	0.71	234.3	236.6	Tan Clay
LNC-009	LNC-009_236.6_239.8	72.12	73.09	0.97	236.6	239.8	White Ash
LNC-009	LNC-009_239.8_248.4	73.09	75.71	2.62	239.8	248.4	Arkose
LNC-009	LNC-009_248.4_249.6	75.71	76.08	0.37	248.4	249.6	Grey Ash
LNC-009	LNC-009_249.6_250.6	76.08	76.38	0.3	249.6	250.6	White Clay
LNC-009	LNC-009_250.6_252.6	76.38	76.99	0.61	250.6	252.6	Tan Ash
LNC-009	LNC-009_252.6_252.8	76.99	77.05	0.06	252.6	252.8	Tan Ash
LNC-009	LNC-009_252.8_256.4	77.05	78.15	1.1	252.8	256.4	White Ash
LNC-009	LNC-009_256.4_257.1	78.15	78.36	0.21	256.4	257.1	White Clay
LNC-009	LNC-009_257.1_258.4	78.36	78.76	0.4	257.1	258.4	White Clay
LNC-009	LNC-009_258.4_259.4	78.76	79.07	0.31	258.4	259.4	Tan Clay
LNC-009	LNC-009_259.4_263.4	79.07	80.28	1.21	259.4	263.4	Tan Ash
LNC-009	LNC-009_263.4_266.1	80.28	81.11	0.83	263.4	266.1	RheomorphTuff
LNC-009	LNC-009_266.1_267.5	81.11	81.53	0.42	266.1	267.5	Arkose
LNC-009	LNC-009_267.5_268.2	81.53	81.75	0.22	267.5	268.2	Tan Clay
LNC-009	LNC-009_268.2_269.1	81.75	82.02	0.27	268.2	269.1	Grey Ash
LNC-009	LNC-009_269.1_269.4	82.02	82.11	0.09	269.1	269.4	Tan Clay
LNC-009	LNC-009_269.4_275.9	82.11	84.09	1.98	269.4	275.9	Grey Ash
LNC-009	LNC-009_275.9_279.3	84.09	85.13	1.04	275.9	279.3	RheomorphTuff
LNC-009	LNC-009_279.3_287.7	85.13	87.69	2.56	279.3	287.7	Grey Ash
LNC-009	LNC-009_287.7_288.7	87.69	88	0.31	287.7	288.7	Tan Ash
LNC-009	LNC-009_288.7_292.3	88	89.09	1.09	288.7	292.3	Arkose
LNC-009	LNC-009_292.3_292.8	89.09	89.25	0.16	292.3	292.8	White Ash
LNC-009	LNC-009_292.8_294.8	89.25	89.86	0.61	292.8	294.8	White Ash
LNC-009	LNC-009_294.8_295.2	89.86	89.98	0.12	294.8	295.2	White Ash
LNC-009	LNC-009_295.2_296.5	89.98	90.37	0.39	295.2	296.5	White Ash
LNC-009	LNC-009_296.5_311.1	90.37	94.82	4.45	296.5	311.1	Arkose
LNC-009	LNC-009_311.1_312.1	94.82	95.13	0.31	311.1	312.1	White Ash
LNC-009	LNC-009_312.1_315.5	95.13	96.16	1.03	312.1	315.5	Tan Clay
LNC-009	LNC-009_315.5_322.7	96.16	98.36	2.2	315.5	322.7	Tan Clay
LNC-009	LNC-009_322.7_323	98.36	98.45	0.09	322.7	323	Grey Ash
LNC-009	LNC-009_323_329.6	98.45	100.46	2.01	323	329.6	Grey Clay
LNC-009	LNC-009_329.6_340.2	100.46	103.69	3.23	329.6	340.2	Grey Ash
LNC-009	LNC-009_340.2_343.1	103.69	104.58	0.89	340.2	343.1	Grey Ash
LNC-009	LNC-009_343.1_343.5	104.58	104.7	0.12	343.1	343.5	Grey Clay
LNC-009	LNC-009_343.5_344.2	104.7	104.91	0.21	343.5	344.2	Grey Ash
LNC-009	LNC-009_344.2_345.9	104.91	105.43	0.52	344.2	345.9	Tan Clay
LNC-009	LNC-009_345.9_347.6	105.43	105.95	0.52	345.9	347.6	Tan Clay
LNC-009	LNC-009_347.6_349.1	105.95	106.41	0.46	347.6	349.1	Green Clay
LNC-009	LNC-009_349.1_350	106.41	106.68	0.27	349.1	350	Grey Clay
LNC-009	LNC-009_350_350.5	106.68	106.83	0.15	350	350.5	White Ash
LNC-009	LNC-009_350.5_352.3	106.83	107.38	0.55	350.5	352.3	Grey Clay
LNC-009	LNC-009_352.3_353.7	107.38	107.81	0.43	352.3	353.7	Grey Ash
LNC-009	LNC-009_353.7_359.7	107.81	109.64	1.83	353.7	359.7	Grey Ash

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-009	LNC-009_359.7_385.5	109.64	117.5	7.86	359.7	385.5	Grey Ash
LNC-009	LNC-009_385.5_385.8	117.5	117.59	0.09	385.5	385.8	Grey Ash
LNC-009	LNC-009_385.8_391.9	117.59	119.45	1.86	385.8	391.9	Grey Clay
LNC-009	LNC-009_391.9_395.6	119.45	120.58	1.13	391.9	395.6	Grey Ash
LNC-009	LNC-009_395.6_397.6	120.58	121.19	0.61	395.6	397.6	Grey Clay
LNC-009	LNC-009_397.6_400.6	121.19	122.1	0.91	397.6	400.6	Grey Clay
LNC-009	LNC-009_400.6_404.3	122.1	123.23	1.13	400.6	404.3	Grey Clay
LNC-009	LNC-009_404.3_405.2	123.23	123.5	0.27	404.3	405.2	Grey Ash
LNC-009	LNC-009_405.2_407	123.5	124.05	0.55	405.2	407	White Ash
LNC-009	LNC-009_407_418.9	124.05	127.68	3.63	407	418.9	Grey Clay
LNC-009	LNC-009_418.9_419.5	127.68	127.86	0.18	418.9	419.5	Grey Ash
LNC-009	LNC-009_419.5_422.7	127.86	128.84	0.98	419.5	422.7	Tan Ash
LNC-009	LNC-009_422.7_441.7	128.84	134.63	5.79	422.7	441.7	Grey Ash
LNC-009	LNC-009_441.7_448.3	134.63	136.64	2.01	441.7	448.3	Grey Clay
LNC-009	LNC-009_448.3_452	136.64	137.77	1.13	448.3	452	Grey Clay
LNC-009	LNC-009_452_453.2	137.77	138.14	0.37	452	453.2	Grey Ash
LNC-009	LNC-009_453.2_459.3	138.14	139.99	1.85	453.2	459.3	Grey Clay
LNC-009	LNC-009_459.3_461.2	139.99	140.57	0.58	459.3	461.2	Grey Ash
LNC-009	LNC-009_461.2_468.1	140.57	142.68	2.11	461.2	468.1	Grey Clay
LNC-009	LNC-009_468.1_475.6	142.68	144.96	2.28	468.1	475.6	Basalt
LNC-009	LNC-009_475.6_476.4	144.96	145.21	0.25	475.6	476.4	Grey Clay
LNC-009	LNC-009_476.4_480	145.21	146.3	1.09	476.4	480	Grey Clay
LNC-009	LNC-009_480_488.7	146.3	148.96	2.66	480	488.7	White Ash
LNC-009	LNC-009_488.7_489.5	148.96	149.2	0.24	488.7	489.5	Grey Clay
LNC-009	LNC-009_489.5_496.1	149.2	151.21	2.01	489.5	496.1	Grey Ash
LNC-009	LNC-009_496.1_497.5	151.21	151.64	0.43	496.1	497.5	Grey Clay
LNC-009	LNC-009_497.5_507.6	151.64	154.72	3.08	497.5	507.6	Grey Ash
LNC-009	LNC-009_507.6_509.1	154.72	155.17	0.45	507.6	509.1	Tan Clay
LNC-009	LNC-009_509.1_511.1	155.17	155.78	0.61	509.1	511.1	Grey Ash
LNC-009	LNC-009_511.1_512.7	155.78	156.27	0.49	511.1	512.7	Tan Clay
LNC-009	LNC-009_512.7_513.3	156.27	156.45	0.18	512.7	513.3	White Ash
LNC-009	LNC-009_513.3_517	156.45	157.58	1.13	513.3	517	Tan Clay
LNC-009	LNC-009_517_533.7	157.58	162.67	5.09	517	533.7	Grey Ash
LNC-009	LNC-009_533.7_537.7	162.67	163.89	1.22	533.7	537.7	Grey Clay
LNC-009	LNC-009_537.7_545.1	163.89	166.15	2.26	537.7	545.1	Grey Ash
LNC-009	LNC-009_545.1_549.2	166.15	167.4	1.25	545.1	549.2	White Ash
LNC-009	LNC-009_549.2_551.1	167.4	167.98	0.58	549.2	551.1	Grey Clay
LNC-009	LNC-009_551.1_555.6	167.98	169.35	1.37	551.1	555.6	White Ash
LNC-009	LNC-009_555.6_565.7	169.35	172.43	3.08	555.6	565.7	Grey Clay
LNC-009	LNC-009_565.7_567.6	172.43	173	0.57	565.7	567.6	Grey Clay
LNC-009	LNC-009_567.6_569.4	173	173.55	0.55	567.6	569.4	Grey Clay
LNC-009	LNC-009_569.4_575.2	173.55	175.32	1.77	569.4	575.2	Grey Ash
LNC-009	LNC-009_575.2_576.2	175.32	175.63	0.31	575.2	576.2	Grey Clay
LNC-009	LNC-009_576.2_579.8	175.63	176.72	1.09	576.2	579.8	White Ash
LNC-009	LNC-009_579.8_581	176.72	177.09	0.37	579.8	581	Grey Ash
LNC-009	LNC-009_581_582.7	177.09	177.61	0.52	581	582.7	Grey Clay
LNC-009	LNC-009_582.7_583.4	177.61	177.82	0.21	582.7	583.4	Grey Ash
LNC-009	LNC-009_583.4_617.6	177.82	188.24	10.42	583.4	617.6	White Ash
LNC-009	LNC-009_617.6_619.5	188.24	188.82	0.58	617.6	619.5	White Ash
LNC-009	LNC-009_619.5_620.4	188.82	189.1	0.28	619.5	620.4	Grey Ash

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-009	LNC-009_620.4_622	189.1	189.59	0.49	620.4	622	White Ash
LNC-009	LNC-009_622_629.9	189.59	191.99	2.4	622	629.9	Grey Ash
LNC-009	LNC-009_629.9_631.1	191.99	192.36	0.37	629.9	631.1	White Ash
LNC-009	LNC-009_631.1_638.2	192.36	194.52	2.16	631.1	638.2	Grey Ash
LNC-009	LNC-009_638.2_641.1	194.52	195.41	0.89	638.2	641.1	Grey Clay
LNC-009	LNC-009_641.1_645.3	195.41	196.69	1.28	641.1	645.3	Grey Clay
LNC-009	LNC-009_645.3_646.1	196.69	196.93	0.24	645.3	646.1	Grey Ash
LNC-009	LNC-009_646.1_654	196.93	199.34	2.41	646.1	654	Grey Clay
LNC-009	LNC-009_654_659	199.34	200.86	1.52	654	659	Grey Clay
LNC-009	LNC-009_659_660	200.86	201.17	0.31	659	660	Grey Ash
LNC-009	LNC-009_660_662.1	201.17	201.81	0.64	660	662.1	Grey Ash
LNC-009	LNC-009_662.1_668.6	201.81	203.79	1.98	662.1	668.6	Tan Clay
LNC-009	LNC-009_668.6_673	203.79	205.13	1.34	668.6	673	Grey Ash
LNC-009	LNC-009_673_679.6	205.13	207.14	2.01	673	679.6	Arkose
LNC-009	LNC-009_679.6_681.1	207.14	207.6	0.46	679.6	681.1	Grey Ash
LNC-009	LNC-009_681.1_682	207.6	207.87	0.27	681.1	682	White Ash
LNC-009	LNC-009_682_687.6	207.87	209.58	1.71	682	687.6	Tan Clay
LNC-009	LNC-009_687.6_690.8	209.58	210.56	0.98	687.6	690.8	Grey Clay
LNC-009	LNC-009_690.8_691.3	210.56	210.71	0.15	690.8	691.3	Tan Clay
LNC-009	LNC-009_691.3_695.2	210.71	211.9	1.19	691.3	695.2	Grey Ash
LNC-009	LNC-009_695.2_699.3	211.9	213.15	1.25	695.2	699.3	Grey Clay
LNC-009	LNC-009_699.3_700.1	213.15	213.39	0.24	699.3	700.1	Grey Ash
LNC-009	LNC-009_700.1_702	213.39	213.97	0.58	700.1	702	White Ash
LNC-009	LNC-009_702_708	213.97	215.8	1.83	702	708	Grey Clay
LNC-009	LNC-009_708_708.5	215.8	215.95	0.15	708	708.5	Grey Ash
LNC-009	LNC-009_708.5_711.8	215.95	216.96	1.01	708.5	711.8	Tan Clay
LNC-009	LNC-009_711.8_713.4	216.96	217.44	0.48	711.8	713.4	Tan Ash
LNC-009	LNC-009_713.4_715.6	217.44	218.11	0.67	713.4	715.6	Grey Ash
LNC-009	LNC-009_715.6_720.8	218.11	219.7	1.59	715.6	720.8	Grey Clay
LNC-009	LNC-009_720.8_721	219.7	219.76	0.06	720.8	721	White Ash
LNC-009	LNC-009_721_722.5	219.76	220.22	0.46	721	722.5	Grey Clay
LNC-009	LNC-009_722.5_723.1	220.22	220.4	0.18	722.5	723.1	Grey Ash
LNC-009	LNC-009_723.1_724.8	220.4	220.92	0.52	723.1	724.8	Grey Clay
LNC-009	LNC-009_724.8_727.3	220.92	221.68	0.76	724.8	727.3	Grey Clay
LNC-009	LNC-009_727.3_729	221.68	222.2	0.52	727.3	729	Grey Ash
LNC-009	LNC-009_729_733.3	222.2	223.51	1.31	729	733.3	Grey Clay
LNC-009	LNC-009_733.3_737.7	223.51	224.85	1.34	733.3	737.7	Green Clay
LNC-009	LNC-009_737.7_741.2	224.85	225.92	1.07	737.7	741.2	Grey Clay
LNC-009	LNC-009_741.2_746	225.92	227.38	1.46	741.2	746	Grey Clay
LNC-009	LNC-009_746_755.3	227.38	230.22	2.84	746	755.3	Grey Clay
LNC-009	LNC-009_755.3_757.3	230.22	230.83	0.61	755.3	757.3	Grey Clay
LNC-009	LNC-009_757.3_758.7	230.83	231.25	0.42	757.3	758.7	Grey Clay
LNC-009	LNC-009_758.7_760	231.25	231.65	0.4	758.7	760	Grey Clay
LNC-115	LNC-115_0_22.7	0	6.92	6.92	0	22.7	Volcanic Rubble
LNC-115	LNC-115_22.7_23.1	6.92	7.04	0.12	22.7	23.1	Cave
LNC-115	LNC-115_23.1_107.8	7.04	32.86	25.82	23.1	107.8	Volcanic Rubble
LNC-115	LNC-115_107.8_114.4	32.86	34.87	2.01	107.8	114.4	Alluvium
LNC-115	LNC-115_114.4_116.7	34.87	35.57	0.7	114.4	116.7	Volcanic Rubble
LNC-115	LNC-115_116.7_122.4	35.57	37.31	1.74	116.7	122.4	Volcanic Rubble

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-115	LNC-115_122.4_129	37.31	39.32	2.01	122.4	129	Alluvium
LNC-115	LNC-115_129_142.1	39.32	43.31	3.99	129	142.1	Volcanic Rubble
LNC-115	LNC-115_142.1_152	43.31	46.33	3.02	142.1	152	Volcanic Rubble
LNC-115	LNC-115_152_155.5	46.33	47.4	1.07	152	155.5	Alluvium
LNC-115	LNC-115_155.5_169.7	47.4	51.72	4.32	155.5	169.7	Volcanic Rubble
LNC-115	LNC-115_169.7_171.7	51.72	52.33	0.61	169.7	171.7	Tan Clay
LNC-115	LNC-115_171.7_173	52.33	52.73	0.4	171.7	173	Tan Clay
LNC-115	LNC-115_173_176	52.73	53.64	0.91	173	176	Tan Ash
LNC-115	LNC-115_176_177	53.64	53.95	0.31	176	177	Tan Ash
LNC-115	LNC-115_177_182.8	53.95	55.72	1.77	177	182.8	Tan Clay
LNC-115	LNC-115_182.8_193.7	55.72	59.04	3.32	182.8	193.7	Grey Ash
LNC-115	LNC-115_193.7_194.7	59.04	59.34	0.3	193.7	194.7	Tan Clay
LNC-115	LNC-115_194.7_196.1	59.34	59.77	0.43	194.7	196.1	Grey Ash
LNC-115	LNC-115_196.1_197.1	59.77	60.08	0.31	196.1	197.1	Tan Clay
LNC-115	LNC-115_197.1_198.1	60.08	60.38	0.3	197.1	198.1	Grey Ash
LNC-115	LNC-115_198.1_211.4	60.38	64.43	4.05	198.1	211.4	Tan Clay
LNC-115	LNC-115_211.4_242.2	64.43	73.82	9.39	211.4	242.2	Grey Ash
LNC-115	LNC-115_242.2_245.3	73.82	74.77	0.95	242.2	245.3	Tan Ash
LNC-115	LNC-115_245.3_249.4	74.77	76.02	1.25	245.3	249.4	Grey Ash
LNC-115	LNC-115_249.4_256.9	76.02	78.3	2.28	249.4	256.9	Grey Ash
LNC-115	LNC-115_256.9_263.4	78.3	80.28	1.98	256.9	263.4	Grey Ash
LNC-115	LNC-115_263.4_271.6	80.28	82.78	2.5	263.4	271.6	White Clay
LNC-115	LNC-115_271.6_282.4	82.78	86.08	3.3	271.6	282.4	White Ash
LNC-115	LNC-115_282.4_298	86.08	90.83	4.75	282.4	298	Tan Ash
LNC-115	LNC-115_298_305	90.83	92.96	2.13	298	305	White Ash
LNC-115	LNC-115_305_308.3	92.96	93.97	1.01	305	308.3	NS
LNC-115	LNC-115_308.3_358.4	93.97	109.24	15.27	308.3	358.4	Tan Ash
LNC-115	LNC-115_358.4_383.7	109.24	116.95	7.71	358.4	383.7	Tan Clay
LNC-115	LNC-115_383.7_396.8	116.95	120.94	3.99	383.7	396.8	Grey Ash
LNC-115	LNC-115_396.8_401.8	120.94	122.47	1.53	396.8	401.8	NS
LNC-115	LNC-115_401.8_429.3	122.47	130.85	8.38	401.8	429.3	Tan Clay
LNC-115	LNC-115_429.3_457.8	130.85	139.54	8.69	429.3	457.8	Brown Clay
LNC-115	LNC-115_457.8_476.7	139.54	145.3	5.76	457.8	476.7	Grey Ash
LNC-115	LNC-115_476.7_506.8	145.3	154.47	9.17	476.7	506.8	Tan Clay
LNC-115	LNC-115_506.8_513.8	154.47	156.61	2.14	506.8	513.8	Brown Clay
LNC-115	LNC-115_513.8_548.3	156.61	167.12	10.51	513.8	548.3	Basalt
LNC-121	LNC-121_0_80	0	24.38	24.38	0	80	Alluvium
LNC-121	LNC-121_80_115.8	24.38	35.3	10.92	80	115.8	Alluvium
LNC-121	LNC-121_115.8_139.9	35.3	42.64	7.34	115.8	139.9	Volcanic Rubble
LNC-121	LNC-121_139.9_160.3	42.64	48.86	6.22	139.9	160.3	Alluvium
LNC-121	LNC-121_160.3_238.5	48.86	72.69	23.83	160.3	238.5	Volcanic Rubble
LNC-121	LNC-121_238.5_288.6	72.69	87.97	15.28	238.5	288.6	Alluvium
LNC-121	LNC-121_288.6_299.3	87.97	91.23	3.26	288.6	299.3	Alluvium
LNC-121	LNC-121_299.3_326.3	91.23	99.46	8.23	299.3	326.3	Alluvium
LNC-121	LNC-121_326.3_336.1	99.46	102.44	2.98	326.3	336.1	Tan Clay
LNC-121	LNC-121_336.1_337.6	102.44	102.9	0.46	336.1	337.6	White Ash
LNC-121	LNC-121_337.6_345.8	102.9	105.4	2.5	337.6	345.8	Tan Clay
LNC-121	LNC-121_345.8_354.8	105.4	108.14	2.74	345.8	354.8	Tan Clay
LNC-121	LNC-121_354.8_356.5	108.14	108.66	0.52	354.8	356.5	Tan Clay

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-121	LNC-121_356.5_367.4	108.66	111.98	3.32	356.5	367.4	Tan Clay
LNC-121	LNC-121_367.4_368.4	111.98	112.29	0.31	367.4	368.4	Tan Clay
LNC-121	LNC-121_368.4_372.4	112.29	113.51	1.22	368.4	372.4	Tan Clay
LNC-121	LNC-121_372.4_376.5	113.51	114.76	1.25	372.4	376.5	Tan Clay
LNC-121	LNC-121_376.5_389.3	114.76	118.66	3.9	376.5	389.3	Tan Clay
LNC-121	LNC-121_389.3_390.2	118.66	118.93	0.27	389.3	390.2	Tan Ash
LNC-121	LNC-121_390.2_396.1	118.93	120.73	1.8	390.2	396.1	Tan Clay
LNC-121	LNC-121_396.1_397	120.73	121.01	0.28	396.1	397	Basalt
LNC-121	LNC-121_397_483.4	121.01	147.34	26.33	397	483.4	Basalt
LNC-121	LNC-121_483.4_485.4	147.34	147.95	0.61	483.4	485.4	Basalt
LNC-121	LNC-121_485.4_487	147.95	148.44	0.49	485.4	487	Grey Clay
LNC-121	LNC-121_487_490.7	148.44	149.57	1.13	487	490.7	Tan Clay
LNC-121	LNC-121_490.7_498.3	149.57	151.88	2.31	490.7	498.3	Tan Clay
LNC-121	LNC-121_498.3_507.4	151.88	154.66	2.78	498.3	507.4	Grey Clay
LNC-121	LNC-121_507.4_513.6	154.66	156.55	1.89	507.4	513.6	Grey Clay
LNC-121	LNC-121_513.6_520	156.55	158.5	1.95	513.6	520	Grey Clay
LNC-121	LNC-121_520_530.4	158.5	161.67	3.17	520	530.4	Tan Clay
LNC-121	LNC-121_530.4_536.1	161.67	163.4	1.73	530.4	536.1	Grey Clay
LNC-121	LNC-121_536.1_536.7	163.4	163.59	0.19	536.1	536.7	Grey Ash
LNC-121	LNC-121_536.7_543	163.59	165.51	1.92	536.7	543	Grey Clay
LNC-121	LNC-121_543_543.7	165.51	165.72	0.21	543	543.7	Grey Ash
LNC-121	LNC-121_543.7_546.8	165.72	166.66	0.94	543.7	546.8	Grey Clay
LNC-121	LNC-121_546.8_547.4	166.66	166.85	0.19	546.8	547.4	Grey Ash
LNC-121	LNC-121_547.4_555	166.85	169.16	2.31	547.4	555	Grey Clay
LNC-121	LNC-121_555_556.3	169.16	169.56	0.4	555	556.3	Cave
LNC-121	LNC-121_556.3_564.3	169.56	172	2.44	556.3	564.3	Grey Clay
LNC-121	LNC-121_564.3_565.3	172	172.3	0.3	564.3	565.3	Grey Ash
LNC-121	LNC-121_565.3_568.7	172.3	173.34	1.04	565.3	568.7	Grey Clay
LNC-121	LNC-121_568.7_573.9	173.34	174.92	1.58	568.7	573.9	Grey Ash
LNC-121	LNC-121_573.9_574.9	174.92	175.23	0.31	573.9	574.9	White Ash
LNC-121	LNC-121_574.9_576.6	175.23	175.75	0.52	574.9	576.6	Grey Ash
LNC-121	LNC-121_576.6_577.3	175.75	175.96	0.21	576.6	577.3	Grey Ash
LNC-121	LNC-121_577.3_584	175.96	178	2.04	577.3	584	Grey Clay
LNC-121	LNC-121_584_585.4	178	178.43	0.43	584	585.4	Grey Ash
LNC-121	LNC-121_585.4_590.1	178.43	179.86	1.43	585.4	590.1	Grey Clay
LNC-121	LNC-121_590.1_592	179.86	180.44	0.58	590.1	592	Light Grey Clay
LNC-121	LNC-121_592_597.8	180.44	182.21	1.77	592	597.8	Grey Clay
LNC-121	LNC-121_597.8_599.8	182.21	182.82	0.61	597.8	599.8	Light Grey Clay
LNC-121	LNC-121_599.8_601.6	182.82	183.37	0.55	599.8	601.6	Grey Clay
LNC-121	LNC-121_601.6_610	183.37	185.93	2.56	601.6	610	Grey Clay
LNC-132	LNC-132_0_12.4	0	3.78	3.78	0	12.4	Volcanic Rubble
LNC-132	LNC-132_12.4_21.3	3.78	6.49	2.71	12.4	21.3	Basalt
LNC-132	LNC-132_21.3_25.6	6.49	7.8	1.31	21.3	25.6	Basalt
LNC-132	LNC-132_25.6_29.9	7.8	9.11	1.31	25.6	29.9	Basalt
LNC-132	LNC-132_29.9_34.7	9.11	10.58	1.47	29.9	34.7	Basalt
LNC-132	LNC-132_34.7_36.7	10.58	11.19	0.61	34.7	36.7	Basalt
LNC-132	LNC-132_36.7_39.8	11.19	12.13	0.94	36.7	39.8	Basalt
LNC-132	LNC-132_39.8_41.8	12.13	12.74	0.61	39.8	41.8	Basalt
LNC-132	LNC-132_41.8_49.1	12.74	14.97	2.23	41.8	49.1	Basalt

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-132	LNC-132_49.1_57.6	14.97	17.56	2.59	49.1	57.6	Basalt
LNC-132	LNC-132_57.6_68.7	17.56	20.94	3.38	57.6	68.7	Basalt
LNC-132	LNC-132_68.7_71.4	20.94	21.76	0.82	68.7	71.4	Basalt
LNC-132	LNC-132_71.4_76.4	21.76	23.29	1.53	71.4	76.4	Basalt
LNC-132	LNC-132_76.4_79.8	23.29	24.32	1.03	76.4	79.8	Basalt
LNC-132	LNC-132_79.8_89	24.32	27.13	2.81	79.8	89	Basalt
LNC-132	LNC-132_89_95.3	27.13	29.05	1.92	89	95.3	Basalt
LNC-132	LNC-132_95.3_99.6	29.05	30.36	1.31	95.3	99.6	Basalt
LNC-132	LNC-132_99.6_104.7	30.36	31.91	1.55	99.6	104.7	Basalt
LNC-132	LNC-132_104.7_120.3	31.91	36.67	4.76	104.7	120.3	Basalt
LNC-132	LNC-132_120.3_132.9	36.67	40.51	3.84	120.3	132.9	Basalt
LNC-132	LNC-132_132.9_137.9	40.51	42.03	1.52	132.9	137.9	Basalt
LNC-132	LNC-132_137.9_161.8	42.03	49.32	7.29	137.9	161.8	Basalt
LNC-132	LNC-132_161.8_173	49.32	52.73	3.41	161.8	173	Basalt
LNC-132	LNC-132_173_190.9	52.73	58.19	5.46	173	190.9	Basalt
LNC-132	LNC-132_190.9_193.8	58.19	59.07	0.88	190.9	193.8	Basalt
LNC-132	LNC-132_193.8_221.8	59.07	67.6	8.53	193.8	221.8	Basalt
LNC-132	LNC-132_221.8_227.4	67.6	69.31	1.71	221.8	227.4	Basalt
LNC-132	LNC-132_227.4_242.1	69.31	73.79	4.48	227.4	242.1	Basalt
LNC-132	LNC-132_242.1_247.5	73.79	75.44	1.65	242.1	247.5	Basalt
LNC-132	LNC-132_247.5_283.6	75.44	86.44	11	247.5	283.6	Basalt
LNC-132	LNC-132_283.6_285.6	86.44	87.05	0.61	283.6	285.6	Basalt
LNC-132	LNC-132_285.6_302.9	87.05	92.32	5.27	285.6	302.9	Basalt
LNC-132	LNC-132_302.9_319.7	92.32	97.44	5.12	302.9	319.7	Basalt
LNC-132	LNC-132_319.7_331.6	97.44	101.07	3.63	319.7	331.6	Basalt
LNC-134	LNC-134_0_21.7	0	6.61	6.61	0	21.7	Volcanic Rubble
LNC-134	LNC-134_21.7_26.8	6.61	8.17	1.56	21.7	26.8	Basalt
LNC-134	LNC-134_26.8_27.4	8.17	8.35	0.18	26.8	27.4	NS
LNC-134	LNC-134_27.4_35	8.35	10.67	2.32	27.4	35	Basalt
LNC-134	LNC-134_35_45	10.67	13.72	3.05	35	45	Basalt
LNC-134	LNC-134_45_55	13.72	16.76	3.04	45	55	Basalt
LNC-134	LNC-134_55_65	16.76	19.81	3.05	55	65	Basalt
LNC-134	LNC-134_65_75	19.81	22.86	3.05	65	75	Basalt
LNC-134	LNC-134_75_85	22.86	25.91	3.05	75	85	Basalt
LNC-134	LNC-134_85_95	25.91	28.96	3.05	85	95	Basalt
LNC-134	LNC-134_95_105	28.96	32	3.04	95	105	Basalt
LNC-134	LNC-134_105_115	32	35.05	3.05	105	115	Basalt
LNC-134	LNC-134_115_125	35.05	38.1	3.05	115	125	Basalt
LNC-134	LNC-134_125_135	38.1	41.15	3.05	125	135	Basalt
LNC-134	LNC-134_135_145	41.15	44.2	3.05	135	145	Basalt
LNC-134	LNC-134_145_155	44.2	47.24	3.04	145	155	Basalt
LNC-134	LNC-134_155_165	47.24	50.29	3.05	155	165	Basalt
LNC-134	LNC-134_165_175	50.29	53.34	3.05	165	175	Basalt
LNC-134	LNC-134_175_185	53.34	56.39	3.05	175	185	Basalt
LNC-134	LNC-134_185_195	56.39	59.44	3.05	185	195	Basalt
LNC-134	LNC-134_195_205	59.44	62.48	3.04	195	205	Basalt
LNC-134	LNC-134_205_215	62.48	65.53	3.05	205	215	Basalt
LNC-134	LNC-134_215_225	65.53	68.58	3.05	215	225	Basalt
LNC-134	LNC-134_225_235	68.58	71.63	3.05	225	235	Basalt

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-134	LNC-134_235_245	71.63	74.68	3.05	235	245	Basalt
LNC-134	LNC-134_245_252	74.68	76.81	2.13	245	252	Basalt
LNC-134	LNC-134_252_258.8	76.81	78.88	2.07	252	258.8	Basalt
LNC-134	LNC-134_258.8_264	78.88	80.47	1.59	258.8	264	Brown Clay
LNC-134	LNC-134_264_268	80.47	81.69	1.22	264	268	Brown Clay
LNC-134	LNC-134_268_273	81.69	83.21	1.52	268	273	Grey Ash
LNC-134	LNC-134_273_277	83.21	84.43	1.22	273	277	Grey Ash
LNC-134	LNC-134_277_285	84.43	86.87	2.44	277	285	Grey Ash
LNC-134	LNC-134_285_290	86.87	88.39	1.52	285	290	Grey Ash
LNC-134	LNC-134_290_295	88.39	89.92	1.53	290	295	Grey Ash
LNC-134	LNC-134_295_305	89.92	92.96	3.04	295	305	Grey Ash
LNC-134	LNC-134_305_310	92.96	94.49	1.53	305	310	Grey Ash
LNC-134	LNC-134_310_315	94.49	96.01	1.52	310	315	Grey Ash
LNC-134	LNC-134_315_320	96.01	97.54	1.53	315	320	Brown Clay
LNC-134	LNC-134_320_325	97.54	99.06	1.52	320	325	Tan Clay
LNC-134	LNC-134_325_330	99.06	100.58	1.52	325	330	Brown Clay
LNC-134	LNC-134_330_333	100.58	101.5	0.92	330	333	Grey Ash
LNC-134	LNC-134_333_339	101.5	103.33	1.83	333	339	Basalt
LNC-134	LNC-134_339_344.6	103.33	105.03	1.7	339	344.6	Basalt
LNC-134	LNC-134_344.6_349.9	105.03	106.65	1.62	344.6	349.9	Brown Clay
LNC-134	LNC-134_349.9_356.7	106.65	108.72	2.07	349.9	356.7	Basalt
LNC-134	LNC-134_356.7_370	108.72	112.78	4.06	356.7	370	Basalt
LNC-134	LNC-134_370_380	112.78	115.82	3.04	370	380	Basalt
LNC-134	LNC-134_380_390	115.82	118.87	3.05	380	390	Basalt
LNC-134	LNC-134_390_400	118.87	121.92	3.05	390	400	Basalt
LNC-134	LNC-134_400_410	121.92	124.97	3.05	400	410	Basalt
LNC-134	LNC-134_410_418	124.97	127.41	2.44	410	418	Basalt
LNC-134	LNC-134_418_424.9	127.41	129.51	2.1	418	424.9	Basalt
LNC-134	LNC-134_424.9_429	129.51	130.76	1.25	424.9	429	Brown Clay
LNC-134	LNC-134_429_432.5	130.76	131.83	1.07	429	432.5	Brown Clay
LNC-134	LNC-134_432.5_437	131.83	133.2	1.37	432.5	437	Grey Clay
LNC-134	LNC-134_437_441	133.2	134.42	1.22	437	441	Grey Clay
LNC-134	LNC-134_441_445	134.42	135.64	1.22	441	445	Brown Clay
LNC-134	LNC-134_445_449	135.64	136.86	1.22	445	449	Brown Clay
LNC-134	LNC-134_449_455	136.86	138.68	1.82	449	455	Grey Clay
LNC-134	LNC-134_455_460	138.68	140.21	1.53	455	460	Ash
LNC-134	LNC-134_460_465	140.21	141.73	1.52	460	465	Grey Clay
LNC-134	LNC-134_465_470	141.73	143.26	1.53	465	470	Light Grey Clay
LNC-134	LNC-134_470_475	143.26	144.78	1.52	470	475	Grey Clay
LNC-134	LNC-134_475_480	144.78	146.3	1.52	475	480	Grey Clay
LNC-134	LNC-134_480_486	146.3	148.13	1.83	480	486	Brown Clay
LNC-134	LNC-134_486_492.2	148.13	150.02	1.89	486	492.2	Brown Clay
LNC-134	LNC-134_492.2_498	150.02	151.79	1.77	492.2	498	Ash
LNC-134	LNC-134_498_504	151.79	153.62	1.83	498	504	Grey Clay
LNC-134	LNC-134_504_510	153.62	155.45	1.83	504	510	Grey Clay
LNC-134	LNC-134_510_515	155.45	156.97	1.52	510	515	Grey Clay
LNC-134	LNC-134_515_520	156.97	158.5	1.53	515	520	Grey Clay
LNC-134	LNC-134_520_525	158.5	160.02	1.52	520	525	Grey Clay
LNC-134	LNC-134_525_530	160.02	161.54	1.52	525	530	Brown Clay
LNC-134	LNC-134_530_535	161.54	163.07	1.53	530	535	Light Grey Clay

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-134	LNC-134_535_540	163.07	164.59	1.52	535	540	Grey Clay
LNC-134	LNC-134_540_545	164.59	166.12	1.53	540	545	Brown Clay
LNC-134	LNC-134_545_550	166.12	167.64	1.52	545	550	Grey Clay
LNC-134	LNC-134_550_555	167.64	169.16	1.52	550	555	Brown Clay
LNC-134	LNC-134_555_560	169.16	170.69	1.53	555	560	Grey Clay
LNC-134	LNC-134_560_565	170.69	172.21	1.52	560	565	Grey Clay
LNC-134	LNC-134_565_570	172.21	173.74	1.53	565	570	Brown Clay
LNC-134	LNC-134_570_575	173.74	175.26	1.52	570	575	Ash
LNC-134	LNC-134_575_580	175.26	176.78	1.52	575	580	Brown Clay
LNC-134	LNC-134_580_585	176.78	178.31	1.53	580	585	Ash
LNC-134	LNC-134_585_590	178.31	179.83	1.52	585	590	Ash
LNC-134	LNC-134_590_595	179.83	181.36	1.53	590	595	Ash
LNC-134	LNC-134_595_600	181.36	182.88	1.52	595	600	Lahar
LNC-134	LNC-134_600_605	182.88	184.4	1.52	600	605	Lahar
LNC-134	LNC-134_605_610	184.4	185.93	1.53	605	610	Lahar
LNC-134	LNC-134_610_615	185.93	187.45	1.52	610	615	Brown Clay
LNC-134	LNC-134_615_620	187.45	188.98	1.53	615	620	Brown Clay
LNC-134	LNC-134_620_625	188.98	190.5	1.52	620	625	Brown Clay
LNC-134	LNC-134_625_630	190.5	192.02	1.52	625	630	Brown Clay
LNC-134	LNC-134_630_635	192.02	193.55	1.53	630	635	Brown Clay
LNC-134	LNC-134_635_640	193.55	195.07	1.52	635	640	Ash
LNC-134	LNC-134_640_645	195.07	196.6	1.53	640	645	Ash
LNC-134	LNC-134_645_650	196.6	198.12	1.52	645	650	Brown Clay
LNC-134	LNC-134_650_655	198.12	199.64	1.52	650	655	Ash
LNC-134	LNC-134_655_660	199.64	201.17	1.53	655	660	Brown Clay
LNC-134	LNC-134_660_665	201.17	202.69	1.52	660	665	Brown Clay
LNC-134	LNC-134_665_670	202.69	204.22	1.53	665	670	Brown Clay
LNC-134	LNC-134_670_675.1	204.22	205.77	1.55	670	675.1	Brown Clay
LNC-134	LNC-134_675.1_682.3	205.77	207.97	2.2	675.1	682.3	Ash
LNC-134	LNC-134_682.3_686	207.97	209.09	1.12	682.3	686	Brown Clay
LNC-134	LNC-134_686_691	209.09	210.62	1.53	686	691	Brown Clay
LNC-134	LNC-134_691_696	210.62	212.14	1.52	691	696	Ash
LNC-134	LNC-134_696_701.3	212.14	213.76	1.62	696	701.3	Brown Clay
LNC-143	LNC-143_0_11	0	3.35	3.35	0	11	Alluvium
LNC-143	LNC-143_11_21.1	3.35	6.43	3.08	11	21.1	Ash
LNC-143	LNC-143_21.1_26	6.43	7.92	1.49	21.1	26	Ash
LNC-143	LNC-143_26_34.8	7.92	10.61	2.69	26	34.8	Ash
LNC-143	LNC-143_34.8_41.7	10.61	12.71	2.1	34.8	41.7	Tan Clay
LNC-143	LNC-143_41.7_46.7	12.71	14.23	1.52	41.7	46.7	Tan Ash
LNC-143	LNC-143_46.7_51.7	14.23	15.76	1.53	46.7	51.7	Tan Ash
LNC-143	LNC-143_51.7_56.7	15.76	17.28	1.52	51.7	56.7	Tan Clay
LNC-143	LNC-143_56.7_61.4	17.28	18.71	1.43	56.7	61.4	Tan Clay
LNC-143	LNC-143_61.4_66.4	18.71	20.24	1.53	61.4	66.4	Tan Clay
LNC-143	LNC-143_66.4_71.4	20.24	21.76	1.52	66.4	71.4	Tan Clay
LNC-143	LNC-143_71.4_76.4	21.76	23.29	1.53	71.4	76.4	Tan Ash
LNC-143	LNC-143_76.4_86.1	23.29	26.24	2.95	76.4	86.1	Tan Ash
LNC-143	LNC-143_86.1_94.2	26.24	28.71	2.47	86.1	94.2	Ash
LNC-143	LNC-143_94.2_100	28.71	30.48	1.77	94.2	100	Tan Clay
LNC-143	LNC-143_100_104.7	30.48	31.91	1.43	100	104.7	Tan Clay

Drill Hole	Sample Name	From	To	Interval Length	From (ft)	To (ft)	Lithology
LNC-143	LNC-143_104.7_110.8	31.91	33.77	1.86	104.7	110.8	Tan Clay
LNC-143	LNC-143_110.8_118.2	33.77	36.03	2.26	110.8	118.2	Tan Clay
LNC-143	LNC-143_118.2_126.2	36.03	38.47	2.44	118.2	126.2	Basalt
LNC-143	LNC-143_126.2_135	38.47	41.15	2.68	126.2	135	Basalt
LNC-143	LNC-143_135_145	41.15	44.2	3.05	135	145	Basalt
LNC-143	LNC-143_145_155.5	44.2	47.4	3.2	145	155.5	Basalt
LNC-143	LNC-143_155.5_165	47.4	50.29	2.89	155.5	165	Basalt
LNC-143	LNC-143_165_175	50.29	53.34	3.05	165	175	Basalt
LNC-143	LNC-143_175_185.3	53.34	56.48	3.14	175	185.3	Basalt
LNC-143	LNC-143_185.3_186.9	56.48	56.97	0.49	185.3	186.9	NS
LNC-143	LNC-143_186.9_195	56.97	59.44	2.47	186.9	195	Basalt
LNC-143	LNC-143_195_205	59.44	62.48	3.04	195	205	Basalt
LNC-143	LNC-143_205_215	62.48	65.53	3.05	205	215	Basalt
LNC-143	LNC-143_215_225	65.53	68.58	3.05	215	225	Basalt
LNC-143	LNC-143_225_235	68.58	71.63	3.05	225	235	Basalt
LNC-143	LNC-143_235_245	71.63	74.68	3.05	235	245	Basalt
LNC-143	LNC-143_245_254.4	74.68	77.54	2.86	245	254.4	Basalt

Exhibit B

United States Department of the Interior
OFFICE OF THE SOLICITOR
Washington, D.C. 20240

May 16, 2023

M-37077

Memorandum

To: Secretary
Director, Bureau of Land Management

From: Solicitor

Subject: Use of Mining Claims for Mine Waste Deposition, and Rescission of M-37012 and M-37057

I. Introduction.

The Mining Law of 1872 (Mining Law), R.S. §§ 2319 *et seq*. (codified at 30 U.S.C. §§ 22 *et seq.*), allows exploration for and development of valuable minerals on public lands.[1] Miners who discover valuable minerals may locate mining claims on those lands and obtain rights to occupy the land and extract the minerals. 30 U.S.C. §§ 22, 23. Miners may also locate "mill sites"—i.e., sites supporting mining claims—where, *inter alia*, the lands are nonmineral in character. 30 U.S.C. § 42. Prior to development of a claim, miners must submit—and the Department of the Interior (Department) must approve—a mining plan that describes proposed operations on the mining claims and mill sites. 43 C.F.R. §§ 3809.11; 3809.401; 3809.412.

Some mine operators site activities ancillary to the mining itself on mining claims, rather than on mill sites. In these cases, the relevant plans of operations frequently do not contemplate extraction of any minerals from the mining claims on which the ancillary uses are situated. Rather, ancillary activities sometimes include uses that would result in permanent occupation of federal lands, such as waste rock disposal. Because this type of use may foreclose the profitable extraction of any minerals in the underlying claims, such practices are potentially inconsistent with the discovery of "valuable" minerals and, therefore, with the existence of a valid claim.

The Bureau of Land Management (BLM) has discretion to undertake a "validity determination"—a comprehensive investigation of a mining claim to verify discovery of valuable minerals—at any time, including when reviewing a proposed plan of operations.[2] But

[1] For purposes of this memorandum, we cite to the codification of the Mining Law in Title 30 of the United States Code.
[2] *See Cameron v. United States*, 252 U.S. 450 (1920).

neither the Mining Law nor related regulations *require* BLM to conduct such a determination prior to approving a plan of operations on open lands.[3] When evaluating a plan of operations on open lands, therefore, BLM generally has not required evidence demonstrating that mining claims used for ancillary activities contain valuable minerals, nor has the agency generally verified the presence of those minerals. This practice has raised questions regarding whether and how BLM may approve plans or portions thereof on open lands where the discovery of valuable minerals is in doubt *and* the planned use will lead to permanent occupation of the claim.

Upon review of the Mining Law's text and recent caselaw, and prior Solicitor's Opinions, I have concluded that BLM should not approve plans of operations where the operator proposes to place significant waste or tailings facilities on mining claims and where BLM's record lacks evidence of the discovery of valuable mineral deposits underlying those facilities. Where such evidence is absent, the operator may submit additional evidence of discovery for the affected claims, re-site the ancillary uses on mill sites (as appropriate), seek a land use authorization under the Federal Land Policy and Management Act of 1976, 43 U.S.C. §§ 1701-1785 (FLPMA) and its implementing regulations, or seek to acquire title to the land though a land exchange or sale. Notably, my decision does not require BLM to conduct a validity determination or its equivalent when approving such plans of operations: under applicable law, it is enough for plan approval that there is some evidence of discovery.

II. Background.

A. The Mining Law.

Congress passed the Mining Law to "reward and encourage the discovery of minerals that are valuable in an economic sense." *United States v. Coleman*, 390 U.S. 599, 602 (1968). Section 22 of the Mining Law provides that "all *valuable* mineral deposits in lands belonging to the United States . . . shall be free and open to exploration and purchase, and the lands in which they are found to occupation and purchase . . . under regulations prescribed by law, and according to the local customs or rules of miners." 30 U.S.C. § 22 (emphasis added). *See Waskey v. Hammer*, 223 U.S. 85, 90-91 (1912) ("The mining laws . . . make the discovery of mineral within the limits of the claim a prerequisite to the location of a claim . . . , the purpose being to reward the discoverer and to prevent the location of land not found to be mineral.") (quotation omitted). The Mining Law also authorizes the location of "mill sites," on "*nonmineral land* not contiguous to the vein or lode" used or occupied to support mining, milling, processing, beneficiation, or other operations in connection with a mining claim. 30 U.S.C. § 42 (emphasis added).

Mining claimants who discover a valuable mineral deposit in a mining claim may establish rights in the mining claim against third parties, including rights to occupy the land and extract the minerals. 30 U.S.C. §§ 22, 23. *See Cameron v. United States*, 252 U.S. at 456 ("To make the claim valid, or to invest the locator with a right to the possession, it was essential that the land be

[3] Lands are considered "open" if they have not been withdrawn from entry under the Mining Law, such as through an administrative or legislative withdrawal. This Opinion addresses mining claims on open lands. BLM is required to conduct a validity determination prior to approving a plan of operations if the mining claim is on land that has been withdrawn from mineral entry. 43 C.F.R. § 3809.100(a).

mineral in character and that there be an adequate mineral discovery within the limits of the claim as located . . . .").

In certain circumstances, Department regulations require the agency to comprehensively determine whether mining claims are valid, i.e., whether the claims contain a discovery of valuable mineral deposits. *See, e.g.*, 43 C.F.R. § 3809.100(a) (requiring mineral examination report for claims on withdrawn lands before approving a plan of operations or allowing notice-level operations). That determination requires a certified mineral examiner's field examination of the mining claim and preparation of a mineral report documenting whether a valuable mineral deposit is present. *See* BLM Mineral Reports -- Preparation and Review Manual 3060 (1994); BLM Validity Mineral Reports Handbook H-3890-3 (2003). These mineral reports provide an in-depth analysis of the claim, including information on the geology and mining history of the region, mineralization of the specific claims, a depiction of the mining claimant's exploration and development work, and any operations on the claim. *Id.* The report also includes an economic evaluation that considers cost estimates and market studies, among other components. *Id.*

On open lands, BLM has wide discretion to decide whether to undertake a mining claim validity determination. Therefore, when evaluating a plan of operations on those lands, BLM has generally not required operators to provide evidence that the mining claims that will be used in the proposed plan contain valuable mineral deposits, nor has the agency verified the presence of those minerals. *See Earthworks v. U.S. Dep't of the Interior*, 496 F. Supp. 3d 472, 479 (D.D.C. 2020).

B. The Federal Land Policy and Management Act.

FLPMA requires the Department to manage the public lands "by regulation or otherwise, tak[ing] any action necessary to prevent unnecessary or undue degradation" of BLM-managed lands. 43 U.S.C. § 1732(b). With four specified exceptions, FLPMA did not "in any way amend the Mining Law of 1872 or impair the rights of any locators or claims under that Act." 43 U.S.C § 1732(b). The only exception relevant here is the Secretary's obligation to "take any action necessary to prevent unnecessary or undue degradation of the lands," which, under FLPMA, applies to operations under the Mining Law. *Id.* The Department promulgated its surface management regulations based on this standard, *see* 43 C.F.R. Subpart 3809, which establish "procedures and standards to ensure that operators and mining claimants [prevent unnecessary or undue degradation]." 43 C.F.R. § 3809.1(a).

Under these regulations and prior to engaging in mining operations, mining claimants must submit—and the Department must approve—a plan of operations that describes the proposed operations on the mining claims and mill sites. 43 C.F.R. §§ 3809.11; 3809.401. BLM reviews these plans to ensure compliance with the National Environmental Policy Act and other relevant statutes, including FLPMA's direction to prevent unnecessary or undue degradation of the public lands. 43 U.S.C. § 1732(b); 43 C.F.R. § 3809.411(a), (d). BLM may deny the plan if, *inter alia*, it results in unnecessary or undue degradation, *id.* § 3809.411(d)(3)(iii), or if it fails to meet "applicable content requirements," *id.* § 3809.411(d)(3)(i).

III. Plans to Place Significant Waste Rock or Tailings Facilities on a Mining Claim Create a Rebuttable Presumption Against Discovery.

Section 22 of the Mining Law predicates a miner's ability to maintain possession of federal lands for mineral development on the discovery of valuable mineral deposits. 30 U.S.C. §§ 22, 23; *Union Oil Co. v. Smith*, 249 U.S. 337, 346 (1919); *Ctr. for Biological Diversity v. U. S. Fish & Wildlife Serv.*, 33 F.4th 1202, 1209-10 (9th Cir. 2022) (referred to here and in caselaw as "*Rosemont*," after the mine at issue in that case). In most cases, neither the Mining Law nor Departmental regulations explicitly require the Department to proactively and independently gather and determine evidence of discovery before a miner begins development, including when a miner submits a proposed plan of operations for approval.

But this general rule does not address whether the Department may reasonably approve a plan of operations under the Mining Law where an operator proposes to bury a mining claim under a waste rock pile or tailings facility, and—independent of BLM's comprehensive process for determining claim validity—therefore presents BLM with apparent evidence that there has been no discovery of valuable mineral deposits. In these cases, the Department may not "look the other way" and approve a plan of operations that relies on evidently invalid mining claims: although BLM's regulations do not require the agency to undertake a validity determination when approving plans of operations, those plans nevertheless logically and explicitly depend on the existence of operations "authorized by the mining laws." 43 C.F.R. § 3809.2(a). *See Bartell Ranch LLC v. McCullough*, No. 321-cv-80, 2023 WL 1782343, at *4 (D. Nev. Feb. 6, 2023) (describing the Mining Law's requirements as "implicit" in review of plans of operations); *accord Cameron*, 252 U.S. at 460 ("[N]o right arises from an invalid claim of any kind.").

Recent caselaw has recognized these limitations. *See Rosemont*, 33 F.4th at 1221. In *Rosemont*, the Ninth Circuit held that the Forest Service had unlawfully approved a plan of operations proposing to dump 1.9 billion tons of waste rock and tailings on nearly 2,500 acres of mining claims. *Id.* at 1207. The *Rosemont* Court concluded that, as a matter of the Administrative Procedure Act, 5 U.S.C. §§ 551 *et seq.*, and the Mining Law, "undisputed evidence showing that no valuable minerals have been found on the claims [underlying the waste and tailings facilities] . . . compel[ed] a conclusion that they are invalid" and precluded the Forest Service's approval of the plan insofar as it relied on those claims and on the record then before the Court. *Id.* at 1223.

Rosemont does not categorically determine the types and quanta of evidence sufficient to demonstrate a discovery of valuable minerals or lack thereof. However, the *Rosemont* Court strongly implied that the scale and permanence of the waste and tailings facilities at issue in that case was inconsistent with any future extraction of valuable minerals from the mining claims at issue, describing as "counterintuitive" the operator's proposal "to permanently occupy land that supposedly contains [such] minerals with a 700-foot layer of waste rock." *Id.* at 1217. *See also id.* at 1221 ("Rosemont's 1.9 billion tons of waste rock will occupy that land forever, obstructing countless alternative uses."). The District Court likewise emphasized the Forest Service's characterization of the formations undergirding the waste and tailings facilities as itself "waste rock," i.e., rock that "contain[ed] no ore metals or contains ore metals at levels below the economic cutoff value." *Ctr. for Biological Diversity v. U. S. Fish & Wildlife Serv.*, 409 F. Supp. 3d 738, 760 (D. Ariz. 2019). *See also Bartell Ranch*, 2023 WL 1782343, at *8 (characterizing

Rosemont as requiring the "agency [approving a plan of operations] to determine whether a . . . project proponent has discovered valuable mineral deposits before permitting that proponent to permanently occupy those federal lands with waste dumps and tailings piles").

In cases like these—where a plan of operations proposes to site significant waste or tailings facilities on mining claims, and there is no evidence of an underlying discovery of valuable mineral deposits on those mining claims—the Mining Law, in conjunction with the Department's surface management regulations in 43 C.F.R. Subpart 3809, forecloses BLM's approval of those portions of the proposed plan of operations. To warrant approval in these circumstances, the record for these portions of the proposed plan must include sufficient evidence of discovery (e.g., the type of evidence in a mineral potential report) to support a reasonable conclusion that there are valuable mineral deposits underlying each mining claim on which the waste rock and tailing facilities would be located. Put otherwise, because the proposed placement of large-scale waste or tailings facilities qualifies as evidence that there has been no discovery, those facilities will foreclose approval of the relevant portions of the proposed plan of operations unless "[t]here is at least some evidence in the record of sufficient . . . mineralization in [the relevant] land." *Bartell Ranch*, 2023 WL 1782343, at *24.[4]

IV. Alternatives for Operators.

Where the information that an operator submits with a proposed mining plan of operations lacks evidence of a discovery of a valuable mineral deposit on mining claims that would be buried by a significant waste or tailings facility like that in *Rosemont*, the BLM should not approve those portions of the proposed plan. In those circumstances, an operator has several options, depending on the terms and conditions of the land use plan and other applicable law.

First, the operator may submit additional evidence of discovery on the relevant mining claims.

Second, the operator may relocate the relevant mining claims as mill sites if the lands are nonmineral in character, consistent with the Mining Law's requirements for those sites. Or the operator may redesign the proposed plan of operations to place the waste rock piles or tailings facilities on other lands, including nearby private lands or on other mill sites.

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[4] Consistent with the logic of the caselaw and with the reservation of validity determinations to specific contexts not relevant here, BLM need not subject every potentially contestable claim in a proposed plan of operations to a detailed and completely independent examination of the relevant mineral content.

Insofar as certain judicial decisions have used the phrase "validity" to describe the type of determination that BLM needs to make about mining claims on which an operator proposes to place significant waste rock piles or tailing facilities in a proposed plan of operations, those decisions have also suggested that the adjective invokes something less formal than the BLM validity determinations reports referenced in 43 C.F.R. § 3809.100(a). *See Rosemont*, 33 F.4th at 1222 (describing such determinations as "irrelevant" to its holding); *Bartell Ranch*, 2023 WL 1782343, at *6 (faulting BLM for declining "to make *any* determination"—as opposed to a validity determinations—"as to whether [the project proponent] had discovered valuable minerals in the land it plans to bury under waste dumps and tailings piles") (emphasis added). Similarly, if BLM declines to approve portions of a mine plan of operations under the standards described in this Opinion and related caselaw, that decision is not tantamount to a formal determination under 43 C.F.R. § 3809.100(a) that the associated claims are invalid.

Third, the operator could apply for a permit or lease under FLPMA. Title III of FLPMA and its implementing regulations—found in Subpart 2920 of Title 43 of the Code of Federal Regulations—provide a mechanism for BLM to lease or permit activities ancillary to mining operations where those activities are not authorized by the Mining Law. (In general, the requirements for lease or permit applications under Subpart 2920 are similar to those for plans of operations. *Compare* 43 C.F.R. § 2920.5-2 (requirements for a land use authorization) *with* 43 C.F.R. § 3809.411 (requirements for a plan of operations).)

Fourth, the Department's "rights of way" regulations—found in Part 2800 of Title 43 of the Code of Federal Regulations—provide a mechanism for BLM to grant rights-of-way on public lands for "pipelines, slurry and emulsion systems, and conveyor belts for transportation and distribution of solid materials, and facilities for the storage of such materials in connection therewith." 43 U.S.C. § 1761(a)(3).

Finally, the applicant may seek to obtain title to the relevant lands through a land exchange under 43 U.S.C. § 1716 or purchase under 43 U.S.C. §§ 1713, 1719. FLPMA authorizes BLM to exchange lands when in the public interest, 43 U.S.C. § 1716, including upon consideration of "needs for lands for . . . minerals." *Id.* FLPMA also authorizes the sale of public land tracts, including when "disposal of such tract will serve important public objectives, including but not limited to, expansion of communities and economic development." 43 U.S.C. § 1713(a)(3).

V. Inconsistent Prior Opinions Rescinded.

This is not the first Solicitor's Opinion to touch on ancillary uses under the Mining Law. In 2001, the Department issued *Use of Mining Claims for Purposes Ancillary to Mineral Extraction*, M-37004 (Jan. 18, 2001) (2001 Opinion). That Opinion concluded that the Secretary should, "when reviewing new plans of operation and plan modifications . . . [,] determine whether a claimant is proposing to use mining claims solely for ancillary operations." 2001 Opinion, at 15. If that review gave "the Secretary reasonable grounds for *questioning* the validity of a mining claim," the 2001 Opinion generally recommended that the Secretary deny the plan of operations. *Id.* (emphasis added). Notably, the review was to be circumscribed—"straightforward" and "preliminary," in the Opinion's framing—and not tantamount to a validity determination under BLM regulations. *Id.* at 14.

The 2001 Opinion was first withdrawn and then replaced by a pair of 2005 Opinions. *See Rescission of 2001 Ancillary Use Opinion*, M-37011 (Nov. 14, 2005); *Legal Requirements for Determining Mining Claim Validity Before Approving a Mining Plan of Operations*, M-37012 (Nov. 14, 2005) (2005 Opinion). The 2005 Opinion concluded that "although the Department is authorized to determine claim validity at any time until a patent is issued, the Department is under no legal obligation to determine mining claim or mill site validity before approving a proposed plan of operations." 2005 Opinion, at 5.

In 2020, the Department issued M-37057, *Authorization of Reasonably Incident Mining Uses on Lands Open to the Operation of the Mining Law of 1872*, which "supplement[ed]" and "reaffirm[ed]" the 2005 Opinion. M-37057, at 2 (Aug. 17, 2020) (2020 Opinion).

The 2005 and 2020 Opinions characterized themselves as a response to the 2001 Opinion, but both appeared to misread that Opinion as requiring a comprehensive "validity determination"—not, as the 2001 Opinion actually required, a preliminary inquiry for certain ancillary uses described in a plan of operations.[5] This misreading is significant because, as the *Rosemont* court has explained, comprehensive "validity determinations" are "irrelevant" to the much narrower questions implicated by that case, by this Opinion, and by the withdrawn 2001 Opinion. 33 F.4th at 1222. Those questions do not ask whether and when the Secretary *must* render a validity determination when passing upon plans of operations, but instead consider whether the Secretary *may* approve plans of operations where "evidence show[s] that no valuable minerals have been found on the claims" underlying proposed waste rock and tailings facilities. *Id.*

On their face, the 2005 and 2020 Opinions do not address this issue, and much of their reasoning is therefore inapplicable to the conclusions set forth in this Opinion. For example, the 2020 Opinion determined that "[r]equiring miners to *demonstrate* a valid mining claim before they may lawfully enter open lands and engage in reasonably incident mining uses" would preclude or discourage exploration for valuable minerals, contrary to the intent of the Mining Law. 2020 Opinion, at 13-14 (emphasis added). But the review contemplated by this Opinion and the 2001 Opinion considers significant waste rock and tailings facilities that would call into question the existence of valuable mineral deposits on the mining claims—not mere exploration. And to the extent that BLM's review of a proposed plan of operations is *already* mandatory under the Department's FLPMA regulations, the agency's review of the proposed plan for consistency with the Mining Law cannot delay development of valuable mineral deposits nor give rise to a new and "vast administrative burden," as the 2020 Opinion feared. 2020 Opinion, at 14 n.18.

Nonetheless, both the 2005 and 2020 Opinions depend on a rationale that conflicts with this Opinion and recent caselaw and that justifies the Opinions' rescission. Most notably, they wrongly imply that the Mining Law forecloses the Department from withholding approval for portions of a plan of operations if the operator cannot, as a matter of law, demonstrate discovery. *See, e.g.*, 2005 Opinion, at 4 ("The Department . . . *need not know*[] whether . . . mining claims . . . are valid before approving a proposed plan . . . ."); 2020 Opinion, at 15 (same). This is so, according to the 2020 Opinion, because the Mining Law provides an authorization—to enter open lands for "'occupation' for purposes reasonably incident to" mineral extraction— that is "unqualified," 2020 Opinion, at 3, and "independent" of any related process, *id.* at 12. But the terms "unqualified" and "independent" do not appear in the Mining Law itself, and, as applied to the Mining Law, are inaccurate.

Most obviously, use of the public lands under the Mining Law *is* qualified: the Mining Law explicitly provides for use of lands in which "valuable mineral deposits" are found, and, by extension, does not authorize that use where valuable mineral deposits are *not* found, such as any

[5] *See* 2005 Opinion, at 2 (describing a "conclusion" that "validity examinations might be required under certain circumstances where the claimant is proposing to use mining claims solely for purposes ancillary to mining without also developing minerals from those claims"); 2020 Opinion, at 1-2 ("The 2001 Opinion . . . advised BLM that it was required to verify the existence of . . . 'rights' through a mining claim validity determination before it could authorize reasonably incident mining uses under Subpart 3809 in some instances . . . ."); *id.* at 20 (implying that the process contemplated by the 2001 Opinion was that "necessary for a mining claim to constitute a property right enforceable as against the United States").

case where ancillary uses render any underlying minerals inaccessible and thus legally worthless. *See* Section III above.

Nor is this authorization "independent" of related processes, such as BLM's review and approval of plans of operations under 43 C.F.R. Subpart 3809. *See id.* at 4-5.

The 2020 Opinion appears to have reached the opposite conclusion for several reasons. First, the 2020 Opinion pointed to BLM's Subpart 3800 regulations ("Mining Claims under the General Mining Laws") as evidence that FLPMA did not eliminate a general statutory grant of authority under the Mining Law to enter open lands and engage in reasonably incident mining uses. It characterized those regulations as "balancing" the imperatives of FLPMA and the Mining Law, 2020 Opinion, at 12. But even reasonably incident mining uses cannot override the fundamental principles of the Mining Law, which open only valuable mineral deposits and the lands in which they are found to exploration and occupation. And the Opinion's characterizations—and the regulations cited in support—are general and precatory, and therefore do not address with specificity how the Mining Law and FLPMA interact with one another in the context of significant mining waste.[6] (The 2020 Opinion also concluded that BLM's Subpart 3809 regulations do not include and have not "include[d] mining claim invalidity as a basis for denying a mine plan," *id.* at 18, but, as noted above, that basis is implicit in the statutory framework. *See supra* at 4-5.)

Second, the 2020 Opinion appealed to BLM's post-FLPMA practice of allowing operators to engage in activities that would result in minimal surface disturbance without prior approval. According to the Opinion, "that some [reasonably incident] uses continued to be allowed [under the regulations] without requiring specific or prior approval—or, in the absence of such approval, without imposing trespass liability—shows that . . . [BLM] continued to recognize . . . [Section 22] as an . . . authorization distinct from FLPMA's operational obligations[.]" *Id.* at 12. But this practice was motivated by an interest in conserving administrative resources for use on large plans of operations rather than mining activities that would cause only minimal surface disturbance. That practice in no way constrains the BLM's discretion and prospective obligation to assess whether waste rock and tailings facilities are authorized by the Mining Law when the agency *does* review plans of operations.

Third, the 2020 Opinion took issue with any proposed use of BLM's Subpart 2920 regulations to approve ancillary uses on public land. The Opinion initially contended that reliance on these regulations "would require miners to seek a new authorization for . . . reasonably incident mining uses each time the mining claim's status changed, including through accidental forfeiture . . . [or] a change in the commodities price that affected the mineral deposit's marketability." 2020 Opinion, at 21 n.26. But as noted above, BLM's obligations to assess the existence of discovery arise in the context of decisions that are put to the agency (such as approval of plans of operations), and miners are generally under no obligation to apply to BLM for any relief or authorization in the circumstances described by the 2020 Opinion. Moreover, the changed

[6] Specifically, the 2020 Opinion cited a regulation stating that the purpose of the Department's Subpart 3809 regulations is to "[p]revent unnecessary or undue degradation of public lands by operations authorized by the mining laws." 43 C.F.R. § 3809.1(a). On its face, this sentence supplies no detail regarding whether and how the Department should determine if operations are "authorized by the mining law."

circumstances described by the 2020 Opinion are unlikely to bear on the scenario contemplated by this Opinion and in *Rosemont*, namely a proposed plan of operations for the siting of waste or tailings facilities *prior* to operations. And in any event, the 2020 Opinion's practical objections to the plain text of the law are of limited value as "policy arguments cannot supersede . . . clear statutory text." *Universal Health Servs., Inc. v. United States*, 579 U.S. 176, 192 (2016).

"[M]ore fundamentally," the 2020 Opinion appears to have contended that "[FLPMA] section 302(a)"—which provides the authority for BLM's Subpart 2920 regulations—"was not one of the four identified ways that FLPMA amended the Mining Law." 2020 Opinion, at 21 n.26. Put otherwise, the 2020 Opinion appears to have concluded that any application of the Subpart 2920 regulations to mining-related activity would necessarily amend the Mining Law. Because that type of amendment is not enumerated among FLPMA's changes to the Mining Law, the 2020 Opinion apparently went on to conclude that land use authorizations under FLPMA section 302 were *per se* inapplicable to, e.g., waste and tailings facilities.

Here, the 2020 Memorandum misapprehends the role of BLM's authority under FLPMA to permit ancillary uses. FLPMA section 302 and its implementing regulations do not displace the Mining Law, but rather fill a gap left by the law, namely a need for miners to site significant ancillary uses on public lands where the miner cannot rely on mining claims themselves. The regulations, in short, supplement the Mining Law and are thus entirely in keeping with FLPMA.

In sum, the 2005 and 2020 Opinions contain material errors and are hereby withdrawn.

VI. Conclusion.

BLM should not approve the relevant portions of a proposed plan of operations where the underlying mining claims would support large-scale waste and tailings facilities and where BLM cannot reasonably conclude that those mining claims contain valuable mineral deposits. This standard does not call on BLM to conduct a validity determination in connection with a proposed plan of operations.[7]

If BLM finds that it cannot approve a portion of a proposed plan of operations because those portions relied on mining claims that lack evidence of valuable mineral deposits underlying significant waste rock disposal or tailings facilities, an operator may be able to offer additional evidence tending to substantiate discovery; relocate those mining claims as mill sites under 30 U.S.C. § 42, if appropriate, or re-site the proposed ancillary use on other mill sites or private lands. The operator may also apply for a lease or permit under 43 C.F.R. Subpart 2920 or a right-

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[7] In rendering this conclusion, the Office of the Solicitor acknowledges that the Department's reading of the Mining Law has not remained static in the last several decades, and that BLM may have approved mining plans that, at least in part, are not strictly consistent with this memorandum. Here, the Department notes that many "legal doctrines . . . are designed to protect those who have reasonably labored under a mistaken understanding of the law," *McGirt v. Oklahoma*, 140 S. Ct. 2452, 2481 (2020). Given the substantial reliance interests that may have accrued where BLM has approved a plan of operations inconsistent with this Opinion, the Department generally expects operations on those plans to remain undisturbed. In particular, the Department notes that, in any action under the Administrative Procedure Act challenging the BLM's past approval of such a plan, vacatur would likely be highly disruptive and therefore inappropriate. *See, e.g.*, *Ctr. for Food Safety v. Regan*, 56 F.4th 648, 668 (9th Cir. 2022) (citing *Allied-Signal, Inc. v. U.S. Nuclear Regulatory Comm'n*, 988 F.2d 146, 150-51 (D.C. Cir. 1993)).

of-way grant under 43 C.F.R. Part 2800, or obtain title to the relevant lands through a land exchange under 43 U.S.C. § 1716 or purchase under 43 U.S.C. §§ 1713, 1719.

Finally, we recommend that BLM amend its regulations and its manual (H-3809-1) to comport with this Opinion.

Robert T. Anderson