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RARE EARTHS

2021 CORE HOLE ANALYSIS SUMMARY
LA PAZ RARE EARTH DEPOSIT
LA PAZ COUNTY, ARIZONA
JUNE 2021

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Technical Services Manager

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SUMMARY

- **Elevated Terbium (Tb) and Praseodymium (Pr) values observed in the LP 2021 data.**
- **Tb and Pr are magnetic REEs and thus the total Magnetic REE (MagREE) grades in drill hole data look to be elevated.**
- **The Ratio of Nd to Pr is about 4:1. These elements comprise approximately 22%-23% of the TREE.**
- **Drill hole lengths of mineralized zones in LP21 holes exceed the length of mineralized zones in 2011 drilling.**
- **The average drill hole thickness of TREE >300ppm in the 2021 drilling is approximately 45.3m.**
- **The average drill hole thickness of TREE >400ppm in the 2021 drilling is approximately 26.1m.**
- **Thorium and Uranium values are exceptionally low in the LP 2021 data. The Thorium weight average is 5.1ppm with a maximum assay value of 38ppm. The Uranium weight average is 0.9ppm with a maximum assay value of 4.4ppm.**

Introduction and Location

Introduction

From March 13 through March 26 Western Rare Earths ("WRE"), a wholly owned subsidiary of American Rare Earth (ARR), completed a nine (9) hole core drilling program totalling 2,238 feet (682m) for the La Paz Rare Earths Project ("La Paz REE") Project in La Paz County Arizona.

Six (6) core holes were drilled as twins of previously drilled percussion holes completed in 2011. Three (3) holes drilled were widely spaced exploration holes drilled to test the previously undrilled southwest portion of the claim block. The results of the exploration drilling are summarized in the April 21, 2021 press release entitled "Drilling at the La Paz Project Completed with Favourable Geology Identified".

Approximately 514 samples were collected from HQ sized core holes. Approximately 42 samples were tested for specific gravity to determine relative densities of the primary rock types at La Paz. Each sample was analyzed using a 60 element ICP analyzer by American Assay Labs Sparks, Nevada.

This report summarizes analytical data obtained from the core samples and presents a summary of key findings within the sample results.

A revised JORC Table 1 resides in Appendix A which has been updated to include relevant information from this report.

Report Purpose

This report summarizes drill hole data, and analytical data obtained from the core samples and presents a summary of key findings within the sample results.

Project Location

The La Paz REE project is located in La Paz County approximately 16 miles (26 km) northeast of Bouse, Arizona. The property can be reached by going northeast of Bouse on the Rankin/Lincoln Ranch Road approximately 16 miles (26 km). The road transects the claims from the southwest to the northeast, see Figure 1.

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La Paz Rare Earth Location



La Paz Rare Earth

N

0 7.5 15 30 45 60 Miles

0 12.5 25 50 75 100 Kilometers

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Data Collection

Sample Collection

Approximately 514 samples were collected from nine (9) HQ sized core holes, see Figure 2. Appendix B contains a table showing the locations of the 2021 Lap Paz Core Holes. Approximately 42 samples were tested for specific gravity to determine relative densities of the primary rock types at La Paz. Each sample was analyzed using a 60 element ICP analyzer by American Assay Labs Sparks, Nevada.

Timberline Drilling, Inc. from Elko Nevada used a track mounted core rig to drill HQ diameter core holes. The drilling, coring and sample collection was overseen by Mr. John Keller, CPG, of World Industrial Minerals, Inc ("WIM"). The drill hole locations were survey using a handheld GPS unit using the NAD 1983, UTM Zone 12 map.

Using protocols developed by WIM, drill holes were logged in full based on representative samples from every 5' interval. All core was geologically logged and photographed on site by qualified geologists. Lithologic descriptions for the 2021 La Paz core holes reside in Appendix C. After logging, photographing, samples were boxed and securely banded for shipping to American Assay Labs. The lab performed assays, additional photography and cutting in preparation for studies and mineral processing and metallurgy.

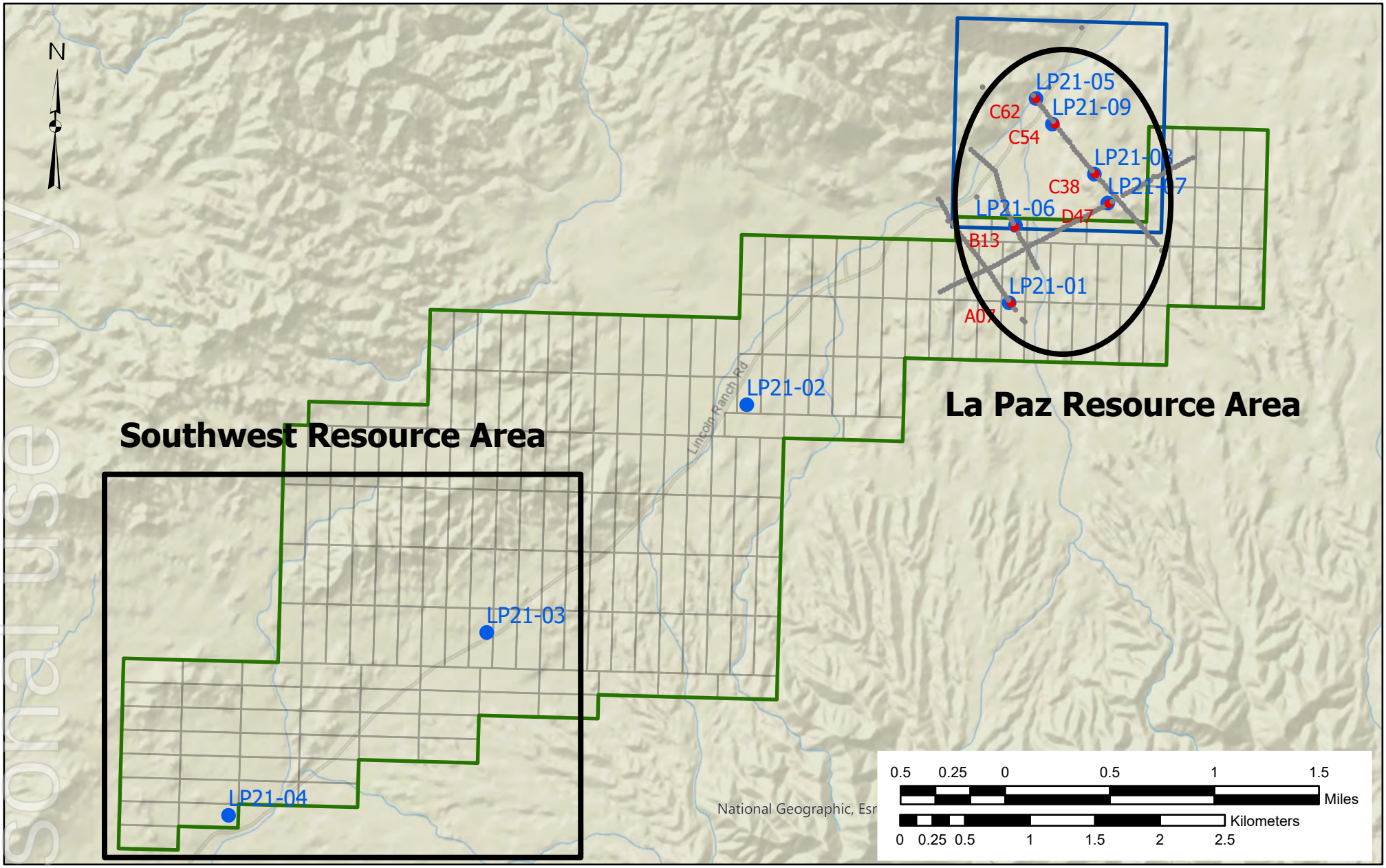
All of the data for the nine (9) 2021 La Paz Core holes was imported into the DHDB drill hole database for storage and analysis. DHDB provides a central, and secure database system for the WRE drilling and sampling data. Certified copies of the 2021 analytical results and the data supplied by America Assay Labs have need cross-referenced to drill hole data in DHDB.

Sample Analysis

Each sample was analyzed using a 60 element ICP analyzer by American Assay Labs Sparks, Nevada. The analytical results are presented in Appendix D.

Approximately 42 samples were tested for specific gravity to determine relative densities of the primary rock types at La Paz. Specific gravity was determined by American Assay Labs using Specific Gravity-WD=Water Displacement (1g/cm3=62.4lbs/ft3) .

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2021 Core Holes
Twinned 2011 Hole
2011 Percussion Holes

Claim Type
Federal
State
La Paz Claims

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La Paz Rare Earth Project
2021 Core Holes

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Data Analysis

Results of 2021 La Paz Analysis

WRE extracted weighted average summaries of select REE elements using a lower limit of 300ppm Total REE, see Table 1.

Table 1 Weight Average Values of Select REE Elements from the La Paz Drilling using a TREE cut-off of 300ppm

DHID	Sc	Y	La	Ce	Pr	Nd	Sm	Eu	Dy	Tb
LP21-01	17	45	68	137	20	73	14	3	10	5
LP21-03	15	39	63	131	19	73	13	3	8	8
LP21-04	14	40	72	144	19	74	13	3	8	7
LP21-05	16	43	75	140	19	80	15	4	9	6
LP21-06	17	45	71	146	20	79	15	3	9	4
LP21-07	16	43	68	138	19	72	13	3	9	10
LP21-08	17	49	62	131	16	68	14	3	11	9
LP21-09	17	44	65	131	17	71	13	3	9	5
Wgt Average	**16**	**44**	**68**	**138**	**18**	**73**	**14**	**3**	**9**	**7**

All values in ppm

Analytical results for the La Paz drilling show elevated presence of Praseodymium (Pr) and Terbium (Tb), see Table 1. Samarium (Sm) also has elevated concentrations in the 2021 La Paz core holes. Scandium (Sc) grades average 16ppm in the analytical data.

The average Total REE (TREE) grade within the drill hole data is approximately 398ppm, based on a cut-off of 300ppm, see Table 2. The average drillhole thickness of material with TREE grades >= 300ppm is approximately 59.4 meters.

Magnetic REE (Pr, Nd, Dy and Tb) constitute approximately 27% of the TREE. The Nd:Pr ratio is approximately 4:1 and these elements constitute approximately 23% of the TREE. Heavy REE constitute approximately 22% of the TREE.

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Table 2 Weight Average Values of Select REE Groups from the 2021 La Paz Drilling using a TREE cut-off of 300ppm

DHID	Thk	TREE	LREE	HREE	MagREE*	ND:PR Ratio	PRND/ TREE	Dy:Tb Ratio	DYTB/ TREE	MagREE/ TREE
LP21-01	36.24	398	312	86	107	3.7	23%	2.1	4%	27%
LP21-03	14.78	377	299	78	108	3.8	24%	1.0	4%	29%
LP21-04	48.56	401	322	79	108	3.9	23%	1.2	4%	27%
LP21-05	35.53	414	329	85	114	4.3	24%	1.5	4%	27%
LP21-06	41.76	416	331	84	113	3.9	24%	2.1	3%	27%
LP21-07	90.03	398	311	87	109	3.8	23%	0.9	5%	27%
LP21-08	79.15	389	291	98	103	4.3	22%	1.2	5%	27%
LP21-09	16.62	379	297	82	102	4.1	23%	1.7	4%	27%
Wgt Average	**45.33**	**398**	**311**	**87**	**108**	**4.0**	**23%**	**1.3**	**4%**	**27%**

*MagREE = Pr, Nd, Dy, Tb

WRE is currently updating detailed drill hole correlations and is updating resource models and resource estimates using the newly acquired core data and analyses.

Specific Gravity

WRE cross-referenced the samples chosen for specific gravity analysis to the lithologic logs. Table 3 summarizes the average specific gravity for rock types included n the 2021 La Paz core hole data.

Table 3 Average Specific Gravity for Rock Types in 2021 Core Holes

Lithology Type	Average SG	No. Samples
Granodiorite	2.59	3
Gneiss	2.63	5
porphyry dike	2.65	1
cataclasite	2.66	5
mylonite gneiss	2.70	26
dike	2.72	1
gabbro/ultramafic	2.85	1

Comparison of 2021 Core Hole to Twinned 2011 Percussion Holes

WRE prepared geological fence diagrams illustrating the La Paz 2021 holes with existing holes from 2011. The fence diagrams show that MagREE mineralization extents 15m to 20m below the maximum depth of the 2011 drilling. This will enable WRE to expand the depth of indicated and inferred resources. The fence diagrams are in Appendix E

WRE created strip logs for each 2021 drill hole and the 2011 twin. The strip logs illustrate that most of the mineralized zones in the 2021 drill holes extend 15 m to 20 m deeper than in the 2011 holes. The strip logs are located Appendix F.

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The average REE grades in the 2021 core holes are less than the grades in the adjacent 2011 holes. This is a result of additional samples in the 2021 core data near the 300ppm cut-off relative to shallower samples in the 2011 percussion holes.

The averages shows in the above tables are based upon gross correlations of mineralized zones which include zones of higher and lower grade material. WRE expects the differences in grade values between the 2021 core holes and the 2011 holes to diminish after the correlation process is complete.

La Paz Southwest Area

Two core holes, LP21-03 and LP21-04, were drilled in the southwest area of the La Paz project area, see Figure 2. LP21-03 was drilled to a depth of 203 feet (61.9m) and LP21-04 was drilled to a depth of 253 feet (77.1m). Drill Hole LP21-03 is approximately 4.75 km southwest of drill hole LP21-01. Drill LP21-04 is approximately 2.22 km southwest of LP21-03 and 7.0 km southwest of LP21-01.

Drill Hole LP21-03 contains modest REE mineralization, showing an average TREE of 377ppm over 14.8 meters of length using a 300ppm TREE cut-off, see Table 2. Drill hole LP21-04 shows more favorable REE mineralization, showing an average TREE of 401ppm over 48.6 meters of length using a 300ppm TREE cut-off see Table 2.

The fence diagram in Appendix E entitled, “LP21 All Holes” illustrate how the holes in the southwest area compare to the core holes in the main La Paz area.

With the favorable results shown in LP21-04, WRE will be staking additional claims and planning addition exploration in the area to determine the extent of REE mineralization.

Radioactive Elements

In drill hole data, the concentrations of radioactive elements (Thorium and Uranium) are exceptionally low. The Thorium average drill hole grade is 5.1ppm with a maximum assay value of 38ppm. The Uranium average drill hole grade is 0.9ppm with a maximum assay value of 4.4ppm, see Table 4.

Table 4 Average Drill Hole Grades of Thorium and Uranium in the La Paz 2021 Drilling

DHID	Thorium ppm	Uranium ppm
LP21-01	5.9	1.0
LP21-03	5.1	0.8
LP21-04	6.2	0.9
LP21-05	4.9	1.2
LP21-06	5.7	0.9
LP21-07	4.3	0.6
LP21-08	3.9	0.6
LP21-09	5.4	1.1
Wgt Average	**5.1**	**0.9**

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Author and Certificate of Qualifications

AUTHOR
Dwight M. Kinnes, CPG
Technical Services Manager
American Rare Earths, Ltd.

I, DWIGHT M. KINNES, Qualified Professional Member (QP) #4063295RM of the Society Of Mining Engineers (SME), HEREBY CERTIFY THAT:

1. I am currently employed as technical services manager with American Rare Earths, Ltd, with an office in Centennial, CO 80122.

2. I am a graduate of Colorado State University, with a B.S. degree in Geology (1986), I have been practicing my profession since 1986.

3. I am a registered member of the Society Of Mining Engineers (SME), number 4063295.

4. From 1986 to present I have been actively employed in various capacities in the mining industry in numerous locations in North America, South America, Asia, Australia, and Europe.

5. I am the Author of the Technical Report titled dated June 21, 2021 with an effective date of June 23, 2021 (the "Technical Report) and accept professional responsibility for all sections of this report.

6. As of the effective date of the Technical Report, to the best of my knowledge, information and belief, The Technical Report Contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

7. I am employed by American Rare Earths, Ltd.

8. I consent to the filing of this Technical Report with any stock exchange and other regulatory authority and publication by them, including publication of this Technical Report in the public company files on their websites accessible by the public.

DATED in Arvada, Colorado, USA this 23rd day of June, 2021.



Dwight M. Kinnes, CPG (4063295RM – SME)

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CERTIFICATION OF QUALIFICATIONS

JAMES R. GUILINGER (AUTHOR)

CONSULTING GEOLOGIST

WORLD INDUSTRIAL MINERALS LLC

I, JAMES R. GUILINGER, Qualified Professional Member (QP) #01260280RM of the Society Of Mining Engineers (SME), HEREBY CERTIFY THAT:

1. I am currently employed as a consulting geologist with World Industrial Minerals LLC, PO Box 130, Arvada, Colorado, USA 80004.

2. I am a graduate of the University of Colorado, with a B.A. degree in Geology (1973), I have been practicing my profession since 1974.

3. I am a member of the Society Of Mining Engineers (SME) RM, number 01260280 RM.

4. From 1974 to present I have been actively employed in various capacities in the mining industry in numerous locations in North America, Asia, Europe and the Middle East.

5. I have read the Technical Report titled dated June 21, 2021 with an effective date of June 23, 2021 (the "Technical Report) and concur with the findings in this report as presented by the Author.

6. I have had extensive prior involvement working in rare earths and on rare earths properties similar to Searchlight since the mid 1980's in various capacities as an employee of mining companies and as a consulting geologist.

7. As of the effective date of the Technical Report, to the best of my knowledge, information and belief, The Technical Report Contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

8. I am independent of ARR.

9. I consent to the filing of this Technical Report with any stock exchange and other regulatory authority and publication by them, including publication of this Technical Report in the public company files on their websites accessible by the public.

DATED in Arvada, Colorado, USA this 23rd day of June, 2021.



James Guilinger RM01260280

Appendix A

JORC Code, 2012 Edition – Table 1 La Paz Rare Earth Project

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	*Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.*	Historical drilling: In 2011, the prospect was drill tested by 195 percussion drill holes ranging from 40' (13m) to 100' (30m depth) for a total of 18,805' (5,731)m. Drilling was completed on 3 parallel section lines across strike and 1 section line along strike, with holes spaced 100' along section lines.
		March 2021 Core Drilling: WRE drilled 9 diamond core holes of HQ size ranging from 168 feet to 403 feet in depth with a total length of 2,238 feet (682 meters), 6 Holes core were twins of select percussion holes drilled in 2011.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Representative 1kg samples were collected from each 5' (1.52m) interval of drilling
	Aspects of the determination of mineralisation that are Material to the Public Report.	
	In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.	A 250g sub-sample was pulverized to -75 microns and a 0.5g charge was assayed for REEO by ICP-MS using standard industry procedures at ALS Chemex, Reno, Nevada.
Drilling techniques	*Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	Historical drilling: A track mounted percussion rig supplied by Dynamic Rock Solutions LLC, Salome, Arizona was used to drill 195 3.5" diameter percussion holes. Drilling began on April 20th, 2011 and was completed on May 31st 2011. Hole depths varied from 40-100', with 142 out of 195 holes drilled to 100' depth. A total of 18,805' (5,731m) was drilled

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		March 2021 Core Drilling: Timberline Drilling, Inc. from Elko Nevada used a track mounted core rig to drill HQ diameter core holes. 6 holes were in the La Paz Resource area and 3 other holes were drilled on the remainder of the property. See the Drill Hole Location Map. Drilling commenced on March 11, 2021 and concluded on March 31, 2021. Drill hole depths varied between 168 feet and 403 feet for a total length of 2,238 feet (682 meters).
Drill sample recovery	*Method of recording and assessing core and chip sample recoveries and results assessed.*	Sampling of ~200g per foot drilled to produce a composite~1kg sample for every 5' drill interval which is considered representative of each interval.
		March 2021 Core Drilling: Core recovery was 98% +. Core material was sent to America Assay Labs, in Spark, Nevada for assay.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	All drilling was carried out above the water table to minimize possible contamination
	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	
Logging	*Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.*	A representative sample of each 5' interval was retained in chip trays for logging. Geological logging is considered to have been logged to a level of detail appropriate to support Mineral Resource Estimates.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	Chip sample logging is qualitative in nature
	The total length and percentage of the relevant intersections logged.	Drill holes were logged in full based on representative samples from every 5' interval.
		March 2021 Core Drilling: All core was geologically logged and photographed on site by qualified geologists.
Sub-sampling techniques and sample preparation	*If core, whether cut or sawn and whether quarter, half or all core taken.*	No core samples were collected in the 2011 drilling.

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		March 2021 Core Drilling: All core was shipped to American Assay Labs for further logging and testing. Additional samples were selected for metallurgical testing.
	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	Percussion chips were collected in a bucket for every 5' interval. A representative 1kg sample from each 5' interval was prepared by the site geologist.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	All samples were dry. Sample preparation: 1kg samples split to 250g for pulverizing to -75 microns. Sample analysis: 0.5g charge assayed by ICP-MS technique
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	The 1kg samples were delivered to an accredited laboratory for sample preparation and analysis
	Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.	Sample preparation techniques are considered industry practice and are conducted at accredited external laboratory, all considered appropriate to the style of mineralization and suitable for determining Mineral Resource Estimates
		March 2021 Core Drilling: After logging, photographing, samples were boxed and securely banded for shipping to American Assay Labs. The lab performed assays, additional photography and cutting in preparation for studies and mineral processing and metallurgy. Chans of custody were maintained at all times.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	
Quality of assay data and laboratory tests	*The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.*	Sample analysis: A 250g split from each sample was pulverized to -75 micron and a 0.5g subsample fused with lithium borate, then subjected to a 4-acid digest and then assayed by ICP-MS for 38 elements.
	For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.	No geophysical tools, spectrometers, handheld XRF instruments, etc used.

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	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	The laboratory used standard quality control procedures incorporating duplicate samples, standards and blanks.
Verification of sampling and assaying	*The verification of significant intersections by either independent or alternative company personnel.*	Significant intercepts were verified by an independent consultant geologist as part of the resource estimation.
	The use of twinned holes.	No twinned holes were used.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Originally all chip trays for each hole interval were stored in a secure facility in Bouse, Arizona. All drill hole logs, associated interval assay results were stored electronically within the company. All geologic data was entered onto log sheets manually then subsequently entered into the computer. Data at all times was secure
		WRE collected QAQC samples during sample preparation. WRE is in the process of statically analyzing the sample QAQC sample results.
	Discuss any adjustment to assay data.	None
Location of data points	*Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.*	Down hole surveyed were not used due to the short length (max 30m depth). Hole collars were surveyed using a handheld GPS.
		March 2021 Core Drilling: Location were determined using Handheld GPS units. Downhole surveys were not performed due to relatively shallow depths..
	Specification of the grid system used.	Historic 2011 Drilling: UTM grid system NAD 1927 Zone 12
		March 2021 Core Drilling: UTM grid system NAD 1983 Zone 12. (The entire project was updated to use NAD 1983 UTM Zone 12 projections.
	Quality and adequacy of topographic control.	Drill hole elevations were estimated using existing USGS topographic base maps as control.
Data spacing and distribution	*Data spacing for reporting of Exploration Results.*	

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	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	The data spacing and distribution are considered sufficient for the current level of early exploration of the areas of interest
	Whether sample compositing has been applied.	Samples have not been composited as all sample intervals were equal (5').
Orientation of data in relation to geological structure	*Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*	Close-spaced vertical drill holes were used to overcome any structural bias of the fine-grained disseminated REEO mineralisation. March 2021 Core Drilling: New diamond core from 6 twinned holes completed in the resource area to confirm the reserve and acquire detailed geological understanding of the mineralized zones. See Drill Hole Location Map. March 2021 Core Drilling: 3 exploration core holes were drilled in the southwest portion of the claim area to follow-up on surface samples and to explore additional mineralized zones at depth. See Drill Hole Location Map.
	If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	
Sample security	*The measures taken to ensure sample security.*	Drill samples were kept in a secure storage locker before dispatch by bonded courier to the laboratory.
		March 2021 Core Drilling: All core was collected from the drill rig daily and stored in a secure, locked facility until the core was dispatched by bonded courier to America Assay Labs. Chains of custody were maintained at all times.
Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	No audits or reviews have been conducted. Extensive review of the data has been undertaken for the purpose of updating the historic and current planned exploration activity.

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Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	*JORC Code explanation*	Commentary
Mineral tenement and land tenure status	*Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.*	The tenement schedule is included in the appendix to this report. The tenements are in the form of 20-acre United States Bureau of Land Management lode mining claims. The total land package controlled by the Company in the La Paz Project Area consists of 261 unpatented lode mining claims totaling 5392.26 acres (2178.47 has). The State Exploration Permit totals 640 acres (259 has). The mining claims are 100% owned by the Company with no royalties. All claims are outside of any wilderness or national park and environmental settings. An historic railroad line crosses a portion of the claims but is outside of any historic or planned exploration programs. The State leased land is subject to a State royalty (as yet undetermined) once the exploration activity has advanced to the exploitation level. At this point the State engineers and geologists will evaluation any defined mineral deposit and determine an appropriate royalty.
		The QP is not aware of any environmental liabilities attached to the La Paz claims and is not a Qualified Person with respect to environmental issues. An archaeological survey of the La Paz claims conducted by Professional Archaeological Services of Tucson, Arizona, dated March 20, 2011, was submitted to the Arizona State Land Department. The survey found no substantial areas of archaeological significance (P.A.S.T., 2011). The author is not a Qualified Person with respect to archaeological issues.
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	As long as annual Arizona State lease holding fees and annual claim holding fees are paid to both the BLM and the County (La Paz) in which the claims reside, tenure is secure.

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Exploration done by other parties	*Acknowledgment and appraisal of exploration by other parties.*	Rare earths were first recognized in June 2010 by John Petersen, a geologist, who submitted for analysis a reconnaissance sample from the Swansea and Bill Williams River areas that analyzed 459.98 ppm total rare earth elements (TREE). A further 119 samples returned TREE values of 20.6 to 674.21 ppm. Scandium varied from 1.1 to 30.2 ppm. AusAmerican then conducted a confirmation sampling exercise of 22 samples that returned values of 6 to 588 ppm TREE, followed in February 2011, by a sample grid of 199 samples that returned 49 to 714 ppm TREE. 195 percussion drill holes were drilled in early 2011. Additional sampling was conducted in 2019 and 2020.
		All drilling was carried out by AusAmerican Mining Corporation and at the time the company was listed on the ASX.
Geology	*Deposit type, geological setting and style of mineralisation.*	The project lies within the Harcuvar metamorphic core complex within the Basin and Range Province of Arizona. Mineralisation is hosted in alkali granitic gneiss and to a lesser extent, a structurally superimposed suite of continental red beds. REEOs occur in Allanite (epidote) that occurs as fine-grained disseminations and micro-fracture fillings.
Drill hole Information	*A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*	AusAmerican in 2011 contracted Dynamic Rock Solutions LLC of Salome, Arizona, to conduct exploratory drilling using a track-mounted percussion drill. Drilling began on April 20, 2011 and was completed on May 31, 2011. One hundred and ninety-five 3.5” diameter holes were completed for the purpose of obtaining samples of the rock types present. Holes varied in depth from 40 to 100 feet: most holes (142 of 195) were completed to 100 feet and total footage drilled was 18,805 feet. Distances between holes was 100 feet and holes were situated along 4 lines: Lines A, B, and C were oriented NW-SE, and one, Line D, was oriented in the NE direction and crossed the other lines. The map below illustrates the La Paz percussion drill hole locations and the sample lines.

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		March 2021 Core Drilling: Timberline Drilling, Inc. from Elko Nevada used a track mounted core rig to drill HQ diameter core holes. 6 holes were in the La Paz Resource area and 3 other holes were drilled on the remainder of the property. See the Drill Hole Location Map. Drilling commenced on March 11, 2021 and concluded on March 31, 2021. Drill hole depths varied between 168 feet and 403 feet for a total length of 2,238 feet (682 meters).
	easting and northing of the drill hole collar	March 2021 Core Drilling: Locations of the March 2021 Core Hole data are located in Appendix B of the Press Release.
	elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar	
	dip and azimuth of the hole	
	down hole length and interception depth	
	hole length.	
	If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	Drill holes cuttings were collected at five-foot intervals. An approximate 2 lb. (1.36 kg) sample was submitted to ALS Chemex laboratory in Reno, Nevada, for geochemical analysis. A total of 3269 samples were submitted: all were analyzed for 60 elements, including REE, Y and Sc. REE assay results from the percussion drilling program are summarized in an Appendix at the back of the report March 2021 Core Drilling: All core was boxed in 10-feet long sections in core boxes. No aggregations of the core was performed.
Relationship between mineralisation widths and	*These relationships are particularly important in the reporting of Exploration Results.*	
	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	The vertical drill hole orientations, 5’ sample lengths are considered appropriate to the style of flat-lying bulk tonnage mineralisation

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intercept lengths	*If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').*	
Diagrams	*Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	See drill hole location map in text
Balanced reporting	*Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	Exploration results are included in the body of this report under both the "Exploration" and "Drilling" Sections
		March 2021 Core Drilling: Assay results are presented in Appendix D of the press release.
Other substantive exploration data	*Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	Metallurgical test work was completed following the 2011 drilling program. Drillhole LP-B7 was twinned and sixteen samples submitted to Saskatchewan Research Council, Saskatoon, Saskatchewan, Canada for pre-concentration and preliminary leaching tests
		Representative rock specimens were submitted to SGS Canadian Laboratories, Vancouver, Canada from within the resource areas to determine overall mineral assemblages and liberations/association of rare earth element carriers
		March 2021 Core Drilling: Approximately 500 kg of core has been shipped to Nagrom Labs, in Perth Australia, for additional mineral processing and metallurgical testing.
Further work	*The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).*	March 2021 Core Drilling: Approximately 500 kg of core has been shipped to Nagrom Labs, in Perth Australia, for additional mineral processing and metallurgical testing.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	

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Appendix B

Drill Hole Survey Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Hole Type	Tnshp	Range	Sect	County	State	Azimuth	Inclin.	In Model
LP21-01	242,204.00	3,781,038.00	450.74	57.91 FC		T09N	R15W	11	La Paz	Arizona	0.00	90.00	Yes
LP21-02	240,186.00	3,780,254.00	466.34	50.90 FC		T09N	R15W	10	La Paz	Arizona	0.00	90.00	Yes
LP21-03	238,185.00	3,778,502.00	502.09	61.87 FC		T09N	R15W	20	La Paz	Arizona	0.00	90.00	Yes
LP21-04	236,199.00	3,777,095.00	482.74	77.11 FC		T09N	R15W	19	La Paz	Arizona	0.00	90.00	Yes
LP21-05	242,411.00	3,782,610.00	415.52	77.11 FC		T09N	R15W	2	La Paz	Arizona	0.00	90.00	Yes
LP21-06	242,253.00	3,781,634.00	435.56	92.35 FC		T09N	R15W	2	La Paz	Arizona	0.00	90.00	Yes
LP21-07	242,963.00	3,781,806.00	451.10	122.83 FC		T09N	R15W	2	La Paz	Arizona	0.00	90.00	Yes
LP21-08	242,860.00	3,782,028.00	444.09	92.35 FC		T09N	R15W	2	La Paz	Arizona	0.00	90.00	Yes
LP21-09	242,537.00	3,782,413.00	425.20	49.68 FC		T09N	R15W	2	La Paz	Arizona	0.00	90.00	Yes

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Appendix C

Drill Hole Lithology

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Mine Area*	*Azimuth*	*Inclin.*
LP21-01	*242,204.00*	*3,781,038.00*	*450.74*	*57.91*	*T09N*	*R15W*	*11*	*2021 Drilling*	*0.00*	*90.00*

	Raw Depths			Adjusted Depths								
Seam	**From**	**To**	**Thick.**	**From**	**To**	**Thick.**	**Color**	**Lithology Type**	**Lith. Qualifier**			**Lith Desc**
RQD	**Hard**	**Grain Size**		**Sort**			**Mech State**	**Bed Space**	**Sed Struct**	**Weathering**	**Interrelation**	**Gas**	**Comment**
Qal	0.00	5.18	5.18	0.00	5.18	5.18		alluvium				surficial deposits/alluvium
Tsp	5.18	8.23	3.05	5.18	8.23	3.05		Red Beds				Upper plate “red-bed” conglomerate
Tsp	8.23	45.11	36.88	8.23	45.11	36.88		cataclasite	brecciated			Lower plate siliceous cataclasite breccia probably derived from granite of Tertiary Swansea plutonic suite. Moderate to strong epidote +/- chlorite alteration.
Tsp	45.11	48.46	3.35	45.11	48.46	3.35		mylonite gneiss				Mylonite gneiss derived from diorite or granodiorite of Swansea plutonic suite. Moderate epidote/chlorite alteration/mineralization.
Tsp	48.46	57.91	9.45	48.46	57.91	9.45		Granodiorite				Diorite and granodiorite with variable but generally weak foliation. Weak to locally moderate epidote/chlorite alteration/mineralization.

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Drill Hole Lithology

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Mine Area	Azimuth	Inclin.
LP21-02	240,186.00	3,780,254.00	466.34	50.90	T09N	R15W	10	2021 Drilling	0.00	90.00

Seam	Raw Depths From	To	Thick.	Adjusted Depths From	To	Thick.	Color	Lithology Type	Lith. Qualifier	Lith Desc
RQD	Hard	Grain Size		Sort			Mech State	Bed Space	Sed Struct	Weathering	Interrelation	Gas	Comment
Qal	0.00	2.44	2.44	0.00	2.44	2.44		alluvium		
										surficial loose alluvium in small drainage. Not sampled.
Qal	2.44	50.90	48.46	2.44	50.90	48.46		conglomerate	sub angular	
										Upper plate basin-fill conglomerate, weakly consolidated silty sand matrix. Not sampled, no potential for significant REE mineralization.

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Drill Hole Lithology

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Mine Area*	*Azimuth*	*Inclin.*
LP21-03	*238,185.00*	*3,778,502.00*	*502.09*	*61.87*	*T09N*	*R15W*	*20*	*2021 Drilling S*	*0.00*	*90.00*

	Raw Depths			Adjusted Depths									
Seam	**From**	**To**	**Thick.**	**From**	**To**	**Thick.**	**Color**	**Lithology Type**	**Lith. Qualifier**			**Lith Desc**	
RQD	**Hard**	**Grain Size**		**Sort**			**Mech State**	**Bed Space**	**Sed Struct**	**Weathering**	**Interrelation**	**Gas**	**Comment**
Qal	0.00	2.74	2.74	0.00	2.74	2.74							Surficial deposits; soil, sheetwash, alluvial rubble
Tsp	2.74	19.20	16.46	2.74	19.20	16.46			Diorite				Lower plate; Swansea plutonic suite diorite with local mylonite deformation (gneissic textures), strong to moderate epidote and chlorite alteration/mineralization.
Tsp	19.20	33.22	14.02	19.20	33.22	14.02			Diorite		granitic		Dominantly diorite with lesser granodiorite (same igneous unit as above with minor compositional variation); very sparse zones of mylonitization and gneissic texture; weak epidote and chlorite alteration.
Tsp	33.22	43.28	10.06	33.22	43.28	10.06			mylonite gneiss				Mylonite gneiss, very well-banded; derived from diorite/granodiorite unit as above; weak to localized moderate epidote/chlorite.
Tsp	43.28	46.94	3.66	43.28	46.94	3.66			cataclasite				Cataclasite (sealed tectonic breccia) derived from mainly brittle deformation of diorite/granodiorite unit as all above. Weak epidote/chlorite alteration.
Tsp	46.94	61.87	14.93	46.94	61.87	14.93			Diorite				Diorite of the Swansea plutonic suite, only very weak gneissic fabric locally, weak epidote/chlorite locally.

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Drill Hole Lithology

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Mine Area	Azimuth	Inclin.
LP21-04	236,199.00	3,777,095.00	482.74	77.11	T09N	R15W	19	2021 Drilling S	0.00	90.00

	Raw Depths			Adjusted Depths									
Seam	From	To	Thick.	From	To	Thick.	Color	Lithology Type	Lith. Qualifier			Lith Desc	
RQD	Hard	Grain Size		Sort			Mech State	Bed Space	Sed Struct	Weathering	Interrelation	Gas	Comment
Qal	0.00	3.05	3.05	0.00	3.05	3.05		alluvium					Surficial deposits of soil and sheetwash alluvium
Tsp	3.05	10.06	7.01	3.05	10.06	7.01		Gneiss					Lower-plate mylonite gneiss and local cataclasite breccia derived from the deformation of granite or granodiorite of the Swansea plutonic suite; strong epidote/chlorite alteration/mineralization.
Tsp	10.06	17.37	7.31	10.06	17.37	7.31		Diorite					Diorite with only weak local mylonite gneiss fabric; weak epidote/chlorite alteration.
Tsp	17.37	18.59	1.22	17.37	18.59	1.22		mylonite gneiss					Mylonite gneiss derived from granodiorite or diorite, weak epidote/chlorite.
Tsp	18.59	24.08	5.49	18.59	24.08	5.49		Granodiorite					Granodiorite with thin zones mylonite gneiss fabric, weak to moderate epidote/chlorite alteration.
Tsp	24.08	29.87	5.79	24.08	29.87	5.79		mylonite gneiss					Mylonite gneiss and cataclasite breccia derived from granodiorite or granite; strong epidote/chlorite alteration/mineralization.
Tsp	29.87	39.62	9.75	29.87	39.62	9.75		Diorite					Diorite with weak, local mylonite gneiss textures, moderate epidote/chlorite.
Tsp	39.62	51.21	11.59	39.62	51.21	11.59		mylonite gneiss					Mylonite gneiss derived from diorite; moderate to weak epidote/chlorite alteration.
Tsp	51.21	58.22	7.01	51.21	58.22	7.01		Diorite					Diorite with weak to locally moderate epidote/chlorite alteration and narrow mylonitic gneiss bands.
Tsp	58.22	66.14	7.92	58.22	66.14	7.92		Gneiss		dioritic			Mixed zone with diorite and highly variable mylonite gneiss fabric and variable epidote/chlorite mineralization from weak to strong. Includes a fine-grained aplitic dike (?) with strong epidote/chlorite mineralization.
Tsp	66.14	74.98	8.84	66.14	74.98	8.84		Diorite					Diorite, weak epidote/chlorite. Mostly non-foliated.

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Drill Hole Lithology

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Mine Area	Azimuth	Inclin.
LP21-04	236,199.00	3,777,095.00	482.74	77.11	T09N	R15W	19	2021 Drilling S	0.00	90.00

	Raw Depths			Adjusted Depths										
Seam	From	To	Thick.	From	To	Thick.	Color	Lithology Type	Lith. Qualifier	Lith Desc				
RQD	Hard	Grain Size		Sort			Mech State	Bed Space	Sed Struct	Weathering	Interrelation	Gas	Comment	
Tsp	74.98	76.81	1.83	74.98	76.81	1.83			Diorite					
													Mylonitic gneiss derived from deformation of diorite; moderate to weak epidote/chlorite.	
Tsp	76.81	77.11	0.30	76.81	77.11	0.30			Diorite					
													Diorite, weak epidote/chlorite, non-foliated.	

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Drill Hole Lithology

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Mine Area*	*Azimuth*	*Inclin.*
LP21-05	*242,411.00*	*3,782,610.00*	*415.52*	*77.11*	*T09N*	*R15W*	*2*	*2021 Drilling*	*0.00*	*90.00*

	Raw Depths			Adjusted Depths									
Seam	**From**	**To**	**Thick.**	**From**	**To**	**Thick.**	**Color**	**Lithology Type**	**Lith. Qualifier**			**Lith Desc**	
RQD	**Hard**	**Grain Size**		**Sort**			**Mech State**	**Bed Space**	**Sed Struct**	**Weathering**	**Interrelation**	**Gas**	**Comment**
Qal	0.00	4.57	4.57	0.00	4.57	4.57			alluvium				Young alluvial gravel and sand in middle of major dry wash.
Tsp	4.57	22.13	17.56	4.57	22.13	17.56			mylonite gneiss				Mylonite gneiss likely derived from deformation of mafic igneous rocks (dark gray), moderate epidote/chlorite alteration.
Tsp	22.13	22.65	0.52	22.13	22.65	0.52			Quartz Vein				Quartz vein, bluish-gray to yellowish-gray, microcrystalline, brittle, fractured.
Tsp	22.65	47.85	25.20	22.65	47.85	25.20			mylonite gneiss				Mylonite gneiss derived from both mafic and intermediate-felsic igneous rocks. Moderate epidote-chlorite alteration, generally decreasing with depth.
Tsp	47.85	77.11	29.26	47.85	77.11	29.26			Granodiorite				Granodiorite and granite, local weak gneissic foliation. Weak epidote-chlorite alteration.

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Drill Hole Lithology

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Mine Area	Azimuth	Inclin.
LP21-06	242,253.00	3,781,634.00	435.56	92.35	T09N	R15W	2	2021 Drilling	0.00	90.00

	Raw Depths			Adjusted Depths										
Seam	From	To	Thick.	From	To	Thick.	Color	Lithology Type	Lith. Qualifier				Lith Desc	
RQD	Hard	Grain Size		Sort			Mech State	Bed Space	Sed Struct	Weathering	Interrelation	Gas	Comment	
Tsp	0.00	2.59	2.59	0.00	2.59	2.59		Conglomerate	augen					
													Upper plate weathered conglomerate and detachment fault zone.	
Tsp	2.59	30.48	27.89	2.59	30.48	27.89		cataclasite						
													Lower-plate cataclasite likely derived from siliceous/felsic igneous rock with abundant epidote and chlorite.	
Tsp	30.48	33.53	3.05	30.48	33.53	3.05		Gneiss						
													Very dark green-gray mylonitic chlorite schist/gneiss. Very fine-grained and finely laminated. May be derived from a intense shearing of a mafic dike. Only moderate to weak epidote.	
Tsp	33.53	49.23	15.70	33.53	49.23	15.70		cataclasite						
													Cataclasite similar to 8.5-100 ft with strong epidote and chlorite alteration/mineralization.	
Tsp	49.23	50.29	1.06	49.23	50.29	1.06		Mafic Dike						
													Mafic dike, not as schistose as similar looking fine-grained dark gray mylonite at 100-110. Decreased epidote.	
Tsp	50.29	53.04	2.75	50.29	53.04	2.75		cataclasite						
													Cataclasite similar to 110-161.5, moderate to weak epidote, strong chlorite alteration.	
Tsp	53.04	76.20	23.16	53.04	76.20	23.16		Granodiorite						
													Granodiorite, only weak gneissic texture (not mylonitic). Homogeneous, weak epidote.	
Tsp	76.20	77.85	1.65	76.20	77.85	1.65		Fault Zone						
													Fault zone; brittle, post-mylonite event; fault planes dip around 40°.	
Tsp	77.85	79.86	2.01	77.85	79.86	2.01		Mafic Dike						
													Mafic dike	
Tsp	79.86	87.48	7.62	79.86	87.48	7.62		Granodiorite						
													Granodiorite similar to 174 – 250. Weak epidote stringers.	
Tsp	87.48	92.35	4.87	87.48	92.35	4.87		mylonite gneiss						
													Mylonite gneiss with moderate epidote stringers and patches; coarse-grained augen or porphyrocrysts.	

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Drill Hole Lithology

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Mine Area	Azimuth	Inclin.
LP21-07	242,963.00	3,781,806.00	451.10	122.83	T09N	R15W	2	2021 Drilling	0.00	90.00

	Raw Depths			Adjusted Depths								
Seam	From	To	Thick.	From	To	Thick.	Color	Lithology Type	Lith. Qualifier			Lith Desc
RQD	Hard	Grain Size		Sort			Mech State	Bed Space	Sed Struct	Weathering	Interrelation	Gas	Comment
Tsp	0.00	6.40	6.40	0.00	6.40	6.40		Gneiss				Epidote-rich, light-colored, coarse-grained cataclastic granitic gneiss. Calcite veinlets common.
Tsp	6.40	10.52	4.12	6.40	10.52	4.12		Mafic Dike				Dark-green gray mafic dike or sill, continued strong epidote/chlorite alteration and stringers and calcite veinlets.
Tsp	10.52	22.74	12.22	10.52	22.74	12.22		dike				Non-foliated (not gneiss), fine-grained, hard siliceous light green-gray rock. Continued epidote-chlorite mineralization and calcite veinlets. Possibly rhyolite dike or sill?
Tsp	22.74	49.29	26.55	22.74	49.29	26.55		mylonite gneiss				Mylonite gneiss, med-dark green-gray, well-foliated, variably textured. Continued strong epidote-chlorite alteration/mineralization.
Tsp	49.29	60.96	11.67	49.29	60.96	11.67		gabbro/ultramafic				Unusual rock type; very dark green-gray, fairly coarse-grained dense, heavy rock, probable gabbro or ultramafic igneous rock; only weak local gneiss foliation; weak visible epidote mineralization.
Tsp	60.96	67.36	6.40	60.96	67.36	6.40		mylonite gneiss				Mylonite gneiss with augen-size porphyroclasts, intermediate-mafic protolith, med-dark green-gray, back into strong epidote-chlorite alteration/mineralization.
Tsp	67.36	73.15	5.79	67.36	73.15	5.79		Gneiss				Partly mylonite gneiss, partly cataclastic coarse-grained diorite or granodiorite, moderate to strong epidote/chlorite stringers.
Tsp	73.15	77.42	4.27	73.15	77.42	4.27		breccia	fault zone			Brittle post-mineral fault zone, brecciated rock, slickensided planes; dips likely 45-60°.
Tsp	77.42	95.71	18.29	77.42	95.71	18.29		Gneiss				Partly mylonite gneiss-textured, partly cataclasite-textured, hard, fine-grained, siliceous igneous rock; thin mafic dikes common also. Light greenish-tan to greenish-yellow and pink. Moderate to locally strong epidote/chlorite.

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Drill Hole Lithology

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Mine Area	Azimuth	Inclin.
LP21-07	242,963.00	3,781,806.00	451.10	122.83	T09N	R15W	2	2021 Drilling	0.00	90.00

	Raw Depths			Adjusted Depths									
Seam	From	To	Thick.	From	To	Thick.	Color	Lithology Type	Lith. Qualifier			Lith Desc	
RQD	Hard	Grain Size		Sort			Mech State	Bed Space	Sed Struct	Weathering	Interrelation	Gas	Comment
Tsp	95.71	122.83	27.12	95.71	122.83	27.12		Gneiss					
													Granitic gneiss; coarse-grained with thicker gneissic banding than in mylonite gneiss; this may be more typical metamorphic gneiss of the Precambrian basement rocks. Moderate to strong epidote in fractures and veinlets. Several thin mafic dikes/sills.

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Drill Hole Lithology

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Mine Area	Azimuth	Inclin.
LP21-08	242,860.00	3,782,028.00	444.09	92.35	T09N	R15W	2	2021 Drilling	0.00	90.00

	Raw Depths			Adjusted Depths									
Seam	From	To	Thick.	From	To	Thick.	Color	Lithology Type	Lith. Qualifier				Lith Desc
RQD	Hard	Grain Size		Sort			Mech State	Bed Space	Sed Struct	Weathering	Interrelation	Gas	Comment
Tsp	0.00	2.13	2.13	0.00	2.13	2.13		mylonite gneiss					Mylonite gneiss, medium to dark gray, weak epidote stringers.
Tsp	2.13	2.74	0.61	2.13	2.74	0.61		Quartz Vein					Quartz vein; sheared fabric indicates this vein was emplaced prior to mylonite deformation and detachment fault event.
Tsp	2.74	3.66	0.92	2.74	3.66	0.92		mylonite gneiss					Mylonite gneiss, dark gray, weak-mod epidote/chlorite.
Tsp	3.66	5.18	1.52	3.66	5.18	1.52		porphyry dike					Hard, light gray, siliceous-intermediate porphyritic dike, not gneissic.
Tsp	5.18	6.10	0.92	5.18	6.10	0.92		Gneiss					Dark gray mylonite; moderate epidote stringers.
Tsp	6.10	8.53	2.43	6.10	8.53	2.43		dike					Mafic dike/sill; fine-grained, possibly very finely laminar and actually ultramylonite gneiss.
Tsp	8.53	37.80	29.27	8.53	37.80	29.27		mylonite gneiss					Mylonite gneiss, dark gray, weak to locally moderate epidote stringers.
Tsp	37.80	41.45	3.65	37.80	41.45	3.65		dike					Dominantly mafic dike, non-foliated to weakly foliated; moderate epidote stringers and patches.
Tsp	41.45	70.10	28.65	41.45	70.10	28.65		mylonite gneiss					Mylonite gneiss similar to 28 – 124.
Tsp	70.10	71.32	1.22	70.10	71.32	1.22		dike					Mafic dike/sill; non-foliated, moderate epidote stringers.
Tsp	71.32	92.35	21.03	71.32	92.35	21.03		mylonite gneiss					Mylonite gneiss; dark gray, weak to locally moderate epidote stringers; a few narrow mafic dikes/sills scattered throughout.

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Drill Hole Lithology

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Mine Area*	*Azimuth*	*Inclin.*
LP21-09	*242,537.00*	*3,782,413.00*	*425.20*	*49.68*	*T09N*	*R15W*	*2*	*2021 Drilling*	*0.00*	*90.00*

	Raw Depths			Adjusted Depths									
Seam	**From**	**To**	**Thick.**	**From**	**To**	**Thick.**	**Color**	**Lithology Type**	**Lith. Qualifier**				**Lith Desc**
RQD	**Hard**	**Grain Size**		**Sort**			**Mech State**	**Bed Space**	**Sed Struct**	**Weathering**	**Interrelation**	**Gas**	**Comment**
Tsp	0.00	1.52	1.52	0.00	1.52	1.52			porphyry dike				Light gray porphyritic, hard siliceous dike; non-gneissic, likely an emanation from large granodiorite at depth.
Tsp	1.52	4.57	3.05	1.52	4.57	3.05			mylonite gneiss				Mylonite gneiss, med-dark gray, moderate to strong epidote as stringers.
Tsp	4.57	5.79	1.22	4.57	5.79	1.22			porphyry dike				Porphyritic dike similar to 0 – 5 ft.
Tsp	5.79	15.54	9.75	5.79	15.54	9.75			mylonite gneiss				Mylonite gneiss similar to 5 – 15 ft.
Tsp	15.54	17.98	2.44	15.54	17.98	2.44			porphyry dike				Porphyritic dike similar to 0 – 5 ft.
Tsp	17.98	24.99	7.01	17.98	24.99	7.01			mylonite gneiss				Mylonite gneiss, strongly fractured, moderate to locally strong epidote veinlets/patches; shows some “baking” or contact-metamorphism proximal to the contact with granodiorite below.
Tsp	24.99	49.68	24.69	24.99	49.68	24.69			Granodiorite				Granodiorite; light to medium gray, hard, competent, homogenous; weak foliation only; medium-coarse grained, equigranular. Weak to moderate epidote stringers/veinlets.

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Appendix D

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
LP21-01	*3,781,038.00*	*242,204.00*	*450.74*	*57.91*	*FC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
1.31	3.05	10001	133	109	24	31	28	50	6	22	4	14	1	3	0	2	1	1	0	1	0	4
3.05	5.18	10002	183	145	39	42	35	67	8	29	6	22	1	5	1	4	1	2	0	2	0	3
5.18	7.01	10003	213	168	45	52	41	74	10	36	7	25	1	6	1	5	1	3	0	2	0	7
7.01	8.23	10004	227	181	46	57	45	79	11	39	8	25	2	6	2	5	1	3	0	2	0	8
8.23	9.75	10005	344	269	75	90	61	119	16	62	11	40	3	9	5	8	2	4	1	4	0	16
9.75	11.34	10006	359	280	80	95	62	124	17	65	12	43	3	10	5	9	2	5	1	4	1	17
11.34	12.80	10007	408	312	96	109	68	136	19	73	15	51	3	12	6	11	2	6	1	5	1	18
12.80	13.87	10008	323	249	75	83	56	110	15	56	11	40	2	9	4	8	2	4	1	4	1	14
13.87	14.63	10009	155	106	49	47	23	43	6	27	6	23	2	5	8	5	1	3	0	2	0	19
14.63	15.54	10011	225	163	62	62	36	70	10	39	8	32	2	7	7	7	1	4	0	3	0	18
15.54	16.55	10012	258	190	68	72	42	80	12	47	10	35	2	8	6	8	1	4	0	3	0	19
16.55	17.56	10013	174	121	54	52	26	49	7	32	6	26	2	6	8	5	1	3	0	2	0	23
17.56	19.20	10014	503	400	103	137	85	176	25	95	18	54	4	15	5	12	2	6	1	5	1	18
19.20	20.73	10015	441	352	88	119	77	155	22	83	16	46	4	13	4	10	2	5	1	4	1	16
20.73	22.25	10016	415	333	82	112	74	144	21	78	15	43	4	12	4	9	2	5	1	4	0	16
22.25	23.77	10017	445	357	88	121	77	156	23	84	17	46	4	13	4	10	2	5	1	4	1	15
23.77	25.30	10018	446	356	90	122	75	157	23	84	17	47	4	13	4	11	2	5	1	4	1	15
25.30	26.82	10020	456	358	98	125	76	156	23	85	17	50	4	14	5	11	2	6	1	5	1	17
26.82	28.35	10021	414	328	86	112	71	143	21	78	16	45	4	12	4	10	2	5	1	4	1	16
28.35	29.87	10022	289	231	58	77	51	103	14	53	10	30	3	8	3	7	1	3	0	3	0	12
29.87	31.39	10023	421	335	86	115	72	147	21	79	16	44	4	12	5	10	2	5	1	4	1	16
31.39	33.22	10024	323	258	66	84	55	118	15	58	11	35	3	9	3	7	1	4	0	3	0	13
33.22	34.44	10025	407	327	80	110	70	146	20	77	15	42	3	11	4	9	2	5	1	4	0	15
34.44	35.97	10026	345	274	71	95	60	119	18	64	13	36	3	10	5	8	2	4	0	3	0	17
35.97	37.49	10027	373	300	74	101	66	131	20	69	14	37	3	11	4	9	2	4	1	3	0	16
37.49	39.01	10028	485	376	110	132	81	163	25	89	19	56	4	15	6	13	2	7	1	5	1	20
39.01	40.54	10029	417	320	97	112	69	140	21	75	16	50	3	13	5	11	2	6	1	5	1	18
40.54	42.06	10031	331	250	82	89	55	108	16	58	12	42	3	10	6	9	2	5	1	4	1	19
42.06	43.59	10032	386	298	87	100	67	132	19	67	14	46	3	11	5	10	2	5	1	4	1	17

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-01	3,781,038.00	242,204.00	450.74	57.91	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
43.59	44.99	10033	390	304	86	101	68	136	19	68	13	45	3	11	5	10	2	5	1	4	1	16
44.99	46.33	10034	427	337	90	114	75	148	21	78	15	48	3	12	5	10	2	5	1	4	1	16
46.33	47.46	10035	359	274	85	96	61	119	17	63	13	44	3	11	5	10	2	5	1	4	1	17
47.46	48.34	10036	344	264	80	91	58	116	16	61	12	42	3	10	5	9	2	5	1	4	1	17
48.34	49.68	10037	339	256	84	90	57	111	16	60	12	44	3	10	6	9	2	5	1	4	1	18
49.68	51.21	10038	164	133	31	39	33	60	8	26	5	17	1	4	1	3	1	2	0	2	0	5
51.21	52.21	10039	169	138	31	40	35	63	8	27	5	16	1	4	2	3	1	2	0	2	0	5
52.21	53.86	10040	214	171	43	53	42	77	10	35	7	23	2	5	3	5	1	3	0	2	0	6
53.86	55.38	10041	240	188	52	61	44	84	11	41	8	27	2	6	4	6	1	3	0	3	0	8
55.38	56.33	10043	271	215	56	70	50	95	17	44	10	29	2	8	3	6	1	3	0	3	0	8
56.33	57.18	10044	229	181	48	59	43	80	12	39	8	25	2	6	3	5	1	3	0	2	0	7
57.18	57.91	10045	148	124	24	34	33	56	7	23	4	13	1	3	1	3	1	1	0	1	0	3

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-03	3,778,502.00	238,185.00	502.09	61.87	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
2.74	3.96	10046	182	148	35	46	38	67	8	30	5	17	1	4	5	3	1	2	0	1	0	10
3.96	5.49	10047	200	166	34	51	42	77	9	33	6	16	1	4	5	3	1	2	0	1	0	11
5.49	6.40	10048	213	173	40	53	39	84	9	35	6	19	1	5	5	4	1	2	0	2	0	12
6.40	7.62	10049	274	216	58	73	48	98	13	49	9	29	2	8	6	6	1	3	0	2	0	13
7.62	8.84	10050	233	187	46	60	44	86	11	39	7	22	2	6	6	5	1	2	0	2	0	11
8.84	10.06	10051	316	255	61	86	57	115	15	58	10	30	2	8	6	6	1	3	0	2	0	13
10.06	11.58	10053	498	402	97	137	84	183	25	93	17	49	3	13	8	11	2	5	1	4	1	17
11.58	13.11	10054	273	217	56	73	49	98	13	49	9	29	2	7	5	6	1	3	0	2	0	12
13.11	14.63	10055	177	144	34	47	33	65	9	31	6	17	1	5	3	4	1	2	0	1	0	9
14.63	16.15	10056	287	229	58	77	52	104	14	51	9	29	2	7	6	6	1	3	0	2	0	12
16.55	18.17	10057	321	258	63	89	57	115	16	60	11	32	2	8	6	7	1	3	0	3	0	12
18.17	19.20	10058	245	196	50	66	45	87	12	44	8	25	2	6	5	5	1	3	0	2	0	10
19.20	20.42	10060	321	259	62	88	58	117	15	58	10	30	2	8	8	6	1	3	0	2	0	12
20.42	21.95	10061	235	189	45	68	43	83	12	44	8	20	2	6	8	4	1	2	0	2	0	11
21.95	23.47	10062	257	206	51	74	47	90	13	48	8	23	2	7	8	5	1	3	0	2	0	11
23.47	24.99	10063	223	176	47	64	41	77	11	41	7	21	2	6	8	5	1	2	0	2	0	12
24.99	26.52	10064	173	137	36	50	32	59	9	32	6	17	2	5	5	4	1	2	0	2	0	9
26.52	28.04	10065	247	203	45	69	49	89	12	45	8	20	2	6	7	4	1	2	0	2	0	10
28.04	29.66	10066	206	161	45	58	34	74	10	37	7	21	2	6	7	5	1	2	0	2	0	11
29.66	31.24	10067	219	171	48	63	38	75	11	40	7	22	2	6	8	5	1	2	0	2	0	11
31.24	32.40	10068	253	195	58	74	41	86	12	47	9	28	2	7	9	6	1	3	0	2	0	13
32.40	33.28	10069	231	173	57	68	36	77	11	42	8	27	2	6	9	5	1	3	0	3	0	13
33.28	34.26	10070	141	114	27	39	26	50	7	27	5	13	1	4	3	3	1	1	0	1	0	7
34.26	35.05	10072	257	200	57	74	43	88	13	48	9	28	2	7	7	6	1	3	0	2	0	12
35.05	37.06	10073	377	294	82	109	61	129	19	73	13	41	3	11	9	9	2	5	1	4	1	16
37.06	38.71	10074	237	176	61	71	38	75	11	43	8	28	2	7	10	6	1	3	0	3	0	16
38.71	40.29	10075	447	351	96	129	72	153	22	87	16	49	3	13	9	11	2	5	1	4	1	17
40.29	41.15	10076	452	357	95	131	72	158	23	89	16	48	3	13	9	10	2	5	1	4	1	17
41.15	42.06	10077	409	319	90	120	66	137	21	81	15	45	3	12	10	10	2	5	1	4	1	18

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-03	3,778,502.00	238,185.00	502.09	61.87	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
42.06	43.28	10078	349	275	74	102	56	121	18	68	13	36	3	10	8	8	1	4	1	3	0	13
43.28	44.68	10079	356	280	76	101	62	121	17	67	12	38	3	10	8	8	2	4	1	3	0	16
44.68	45.90	10081	301	241	60	99	51	95	19	66	11	28	2	8	7	6	1	3	0	3	0	14
45.90	47.00	10082	225	175	50	67	38	75	11	43	8	23	2	6	8	5	1	3	0	2	0	15
47.00	48.16	10083	224	180	45	63	42	79	11	41	7	21	2	6	7	4	1	2	0	2	0	15
48.16	49.68	10084	172	136	36	49	32	60	8	31	6	17	2	4	6	4	1	2	0	1	0	14
49.68	51.21	10085	113	87	26	32	20	38	5	21	4	13	1	3	3	3	1	1	0	1	0	9
51.21	52.73	10086	187	134	54	59	27	56	9	36	7	25	2	6	9	5	1	3	0	2	0	14
52.73	54.25	10087	155	116	40	46	22	51	7	29	6	19	2	5	5	4	1	2	0	2	0	14
54.25	55.78	10088	176	130	46	54	26	55	8	34	6	21	2	5	8	5	1	2	0	2	0	14
55.78	57.30	10089	234	180	54	68	41	77	11	43	8	25	2	6	9	6	1	3	0	2	0	14
57.30	58.40	10090	165	122	43	49	25	51	8	31	6	21	2	5	6	4	1	2	0	2	0	15
58.40	60.08	10091	164	120	44	49	25	51	8	31	6	21	2	5	6	5	1	2	0	2	0	13
60.08	61.87	10092	198	149	50	59	33	61	10	37	7	24	2	6	7	5	1	3	0	2	0	16

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-04	3,777,095.00	236,199.00	482.74	77.11	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	1.83	10093	175	140	35	44	34	63	8	30	6	18	1	5	2	4	1	2	0	2	0	7
1.83	2.96	10095	301	240	62	80	54	106	14	55	10	32	2	9	4	7	1	4	1	3	0	11
2.96	3.96	10096	466	370	96	130	79	163	23	89	16	48	3	14	8	10	2	5	1	4	1	16
3.96	5.36	10097	412	328	84	112	70	147	20	77	14	43	3	12	6	9	2	5	1	4	1	16
5.36	6.46	10098	538	432	107	147	93	194	26	101	18	54	3	16	8	12	2	6	1	5	1	17
6.46	7.41	10099	370	300	70	99	66	136	18	68	12	35	2	10	5	8	1	4	1	3	0	12
7.41	8.90	10100	135	115	20	33	30	51	6	24	4	10	1	3	1	2	0	1	0	1	0	5
8.90	10.00	10101	410	325	85	113	69	145	20	77	14	43	3	12	7	9	2	5	1	4	1	17
10.00	11.28	10102	365	293	72	100	65	131	17	68	12	35	3	10	7	8	1	4	1	3	0	13
11.28	12.80	10103	194	150	44	53	36	66	9	34	6	20	2	6	7	4	1	2	0	2	0	10
12.80	14.33	10104	210	161	49	60	37	70	10	38	7	23	2	6	7	5	1	3	0	2	0	10
14.33	15.85	10105	221	170	52	62	39	74	10	40	7	25	2	7	7	5	1	3	0	2	0	13
15.85	17.31	10106	202	154	48	59	34	66	10	38	7	23	2	6	6	5	1	3	0	2	0	13
17.31	18.62	10107	265	209	56	73	47	91	13	49	9	28	2	8	5	6	1	3	0	2	0	13
18.62	19.84	10109	168	142	27	41	37	65	8	28	5	13	1	4	3	3	1	1	0	1	0	7
19.84	21.09	10110	209	162	47	56	37	73	9	36	7	22	2	6	6	5	1	3	0	2	0	13
21.09	22.62	10111	147	124	22	36	33	57	7	24	4	10	1	3	3	2	0	1	0	1	0	7
22.62	24.08	10112	135	110	25	33	27	51	6	22	4	13	1	3	2	2	1	1	0	1	0	6
24.08	25.30	10113	369	285	83	97	62	127	17	66	13	45	2	11	5	9	2	5	1	4	1	12
25.30	26.82	10114	436	350	86	120	77	156	21	81	15	42	3	12	8	9	2	5	1	4	0	15
26.82	28.35	10115	443	357	86	122	76	161	22	84	15	43	3	13	7	10	2	5	1	4	1	14
28.35	29.99	10116	423	340	84	117	75	149	21	80	14	41	3	12	7	9	2	5	1	4	0	12
29.99	31.24	10117	341	271	70	95	60	120	17	64	11	34	3	10	7	7	1	4	1	3	0	13
31.24	32.92	10118	393	314	79	106	69	142	19	72	13	39	3	12	7	9	2	4	1	3	0	13
32.92	34.44	10119	403	322	82	109	69	145	19	75	14	41	3	12	6	9	2	4	1	4	0	15
34.44	35.97	10120	362	290	72	99	64	129	17	68	12	36	3	10	6	8	1	4	1	3	0	11
35.97	37.49	10122	332	266	66	89	61	119	15	61	11	33	2	9	6	7	1	4	1	3	0	11
37.49	39.01	10123	422	335	86	115	73	150	20	79	14	44	3	12	7	9	2	5	1	4	0	15
39.01	39.72	10124	259	208	51	70	46	92	12	48	9	26	2	8	4	6	1	3	0	2	0	11

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-04	3,777,095.00	236,199.00	482.74	77.11	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
39.72	40.54	10125	452	361	91	126	78	160	22	86	15	45	3	13	8	10	2	5	1	4	1	18
40.54	42.06	10126	423	341	82	112	75	154	20	78	14	43	3	12	5	9	2	5	1	4	0	14
42.06	43.59	10127	469	373	96	128	81	166	22	88	16	49	3	14	7	10	2	5	1	4	1	17
43.59	45.11	10128	412	331	81	110	73	150	19	75	14	42	3	11	6	9	2	4	1	3	0	15
45.11	46.63	10130	509	418	92	141	95	181	27	98	17	46	3	14	6	10	2	5	1	4	1	14
46.63	48.16	10131	476	380	96	126	83	173	22	87	16	50	3	13	8	10	2	5	1	4	1	15
48.16	49.68	10132	430	345	85	114	77	155	20	79	14	44	3	12	6	9	2	5	1	4	0	15
49.68	51.21	10133	335	275	60	89	65	123	16	61	11	30	2	9	5	6	1	3	0	3	0	12
51.21	52.73	10134	291	237	55	77	54	108	14	52	9	27	2	8	5	6	1	3	0	2	0	9
52.73	54.25	10135	351	287	64	94	68	128	17	64	11	31	3	9	7	7	1	3	0	3	0	12
54.25	55.78	10136	158	128	30	41	31	58	7	28	5	15	1	4	3	3	1	2	0	1	0	7
55.78	57.30	10137	260	213	48	70	52	94	12	46	8	22	2	7	6	5	1	2	0	2	0	11
57.30	58.09	10138	306	247	59	82	61	109	14	55	9	28	2	8	8	6	1	3	0	3	0	14
58.09	59.28	10139	499	404	95	134	89	182	24	93	16	48	3	14	7	11	2	5	1	4	1	14
59.28	60.35	10140	265	210	55	73	48	92	13	49	9	27	2	8	6	6	1	3	0	2	0	12
60.35	61.90	10141	333	263	70	94	58	115	16	63	11	34	3	10	8	7	1	4	1	3	0	16
61.90	62.82	10143	470	374	96	129	81	166	23	89	16	49	3	14	8	10	2	5	1	4	1	16
62.82	63.83	10144	225	179	45	58	42	80	10	40	7	24	2	6	3	5	1	2	0	2	0	10
63.83	64.92	10145	314	247	67	85	58	110	14	55	10	32	2	9	8	7	1	4	1	3	0	13
64.92	66.11	10146	334	262	72	89	59	117	15	60	11	36	2	10	6	8	1	4	1	3	0	20
66.11	67.00	10147	280	224	56	74	54	101	13	49	8	27	2	7	8	5	1	3	0	2	0	13
67.00	67.97	10148	313	248	65	88	56	110	15	57	10	30	2	9	9	6	1	3	0	3	0	14
67.97	69.49	10149	343	283	60	88	71	128	16	59	10	28	2	8	8	6	1	3	0	3	0	14
69.49	71.02	10150	256	200	56	74	43	87	12	49	9	27	2	7	7	6	1	3	0	3	0	13
71.02	72.54	10151	280	228	52	74	55	102	13	49	8	24	2	7	7	5	1	3	0	2	0	12
72.54	74.07	10152	313	258	55	80	65	116	14	54	9	26	2	8	7	5	1	3	0	2	0	11
74.07	74.86	10153	409	329	81	111	76	145	19	75	13	39	3	11	9	8	2	4	1	3	0	14
74.86	75.59	10154	432	349	83	114	79	157	20	78	14	43	3	12	6	9	2	5	1	4	0	13
75.59	76.66	10155	479	386	93	127	85	174	23	88	16	48	3	13	6	10	2	5	1	4	1	15

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-04	*3,777,095.00*	*236,199.00*	*482.74*	*77.11*	*FC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
76.66	77.11	10157	309	247	62	82	59	110	14	54	10	30	2	8	8	6	1	3	0	3	0	18

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-05	3,782,610.00	242,411.00	415.52	77.11	FC

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE										Sc
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
4.57	5.49	10158	516	408	108	144	85	179	25	101	18	57	4	15	8	12	2	6	1	5	1	19
7.01	8.53	10159	423	338	86	115	74	148	20	81	15	45	4	12	5	9	2	5	1	4	1	15
8.53	10.06	10160	288	228	60	75	52	101	12	53	10	31	3	8	3	6	1	3	0	3	0	10
10.06	11.58	10161	449	359	90	122	79	158	22	85	16	46	4	13	6	10	2	5	1	4	1	15
11.58	13.11	10162	418	329	89	116	71	142	20	81	15	46	4	13	6	10	2	5	1	4	1	15
13.11	14.63	10163	462	365	97	128	79	157	23	89	17	50	4	14	6	10	2	5	1	4	1	16
14.63	16.15	10164	442	348	93	121	76	152	20	85	16	48	4	13	6	10	2	5	1	4	1	16
16.15	17.68	10165	456	361	95	127	77	158	21	89	17	49	4	14	7	10	2	5	1	4	1	16
17.68	19.23	10166	455	359	96	126	78	156	21	88	17	49	4	14	7	10	2	5	1	4	1	18
19.23	20.67	10167	374	296	78	101	66	129	16	71	13	39	4	11	5	8	2	4	1	3	1	15
20.67	22.13	10168	256	194	61	73	41	83	11	50	10	30	3	8	7	6	1	3	0	3	0	23
22.13	22.65	10169	145	115	30	38	25	52	7	27	5	16	1	4	1	3	1	2	0	1	0	6
22.65	23.38	10171	433	346	87	111	91	143	19	79	16	44	4	13	5	9	2	5	1	4	1	15
23.38	24.32	10172	398	314	84	109	71	134	17	77	15	42	4	12	6	9	2	5	1	4	1	16
24.32	25.63	10173	376	293	83	104	65	125	16	73	14	42	4	12	6	9	2	5	1	4	1	18
25.63	27.16	10174	182	137	44	50	31	59	8	33	7	22	2	6	5	4	1	2	0	2	0	20
27.16	28.35	10175	252	194	58	71	41	84	11	49	9	29	2	8	5	6	1	3	0	3	0	20
28.35	29.87	10176	323	254	69	90	55	110	14	64	12	35	3	10	5	8	1	4	1	3	0	18
29.87	31.39	10177	414	326	87	115	70	141	18	82	16	44	4	13	6	9	2	5	1	4	1	16
31.39	32.92	10178	405	322	83	116	70	137	18	83	15	41	4	12	7	9	2	4	1	3	1	18
32.92	34.44	10180	365	291	74	91	93	107	14	64	13	37	3	11	6	7	2	4	1	3	0	18
34.44	35.97	10181	363	287	75	102	64	122	16	71	13	38	3	11	6	8	2	4	1	3	0	19
35.97	37.49	10182	391	308	83	109	67	133	17	77	14	42	3	12	6	9	2	4	1	3	1	17
37.49	39.01	10183	390	314	76	107	72	135	18	76	14	38	3	11	6	8	2	4	1	3	1	16
39.01	40.54	10184	399	318	81	120	71	126	20	86	15	42	4	12	5	8	2	4	1	3	1	16
40.54	42.06	10185	406	325	81	110	70	143	18	79	14	43	3	12	5	8	2	4	1	3	1	14
42.06	43.59	10186	436	349	87	121	76	151	20	87	16	45	4	13	6	9	2	5	1	4	1	17
43.59	45.11	10187	410	328	83	113	73	141	19	80	15	42	3	12	6	9	2	4	1	3	1	15
45.11	46.63	10188	431	347	84	119	74	153	20	85	15	43	3	12	5	9	2	5	1	4	1	16

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-05	3,782,610.00	242,411.00	415.52	77.11	FC

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE										
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
46.63	47.85	10190	460	380	80	108	127	144	18	77	16	39	4	13	5	8	2	4	1	3	1	16
47.85	49.38	10191	131	107	24	31	26	50	6	22	4	13	1	3	1	3	1	1	0	1	0	4
49.38	50.90	10192	121	100	21	28	25	48	6	19	3	11	1	3	1	2	0	1	0	1	0	3
50.90	52.43	10193	117	95	22	28	24	44	5	19	3	12	1	3	1	3	0	1	0	1	0	7
52.43	53.95	10194	95	78	17	22	20	37	4	15	3	9	1	2	1	2	0	1	0	1	0	3
53.95	55.32	10195	109	91	18	26	23	42	5	18	3	10	1	2	1	2	0	1	0	1	0	4
55.32	56.33	10196	112	93	19	27	24	43	6	18	3	10	1	3	1	2	0	1	0	1	0	5
56.33	57.30	10197	94	78	16	22	20	36	5	15	3	9	1	2	1	2	0	1	0	1	0	3
57.30	58.83	10198	101	84	17	24	21	39	5	16	3	10	1	2	1	2	0	1	0	1	0	3
58.83	60.35	10199	92	77	14	21	19	37	5	14	2	8	1	2	0	1	0	1	0	1	0	3
60.35	61.87	10200	89	75	14	20	19	35	4	14	2	8	1	2	1	1	0	1	0	1	0	3
61.87	62.79	10202	86	74	11	20	19	35	4	14	2	6	1	2	1	1	0	1	0	1	0	2
62.79	64.47	10203	96	81	14	22	21	38	5	15	3	8	1	2	1	2	0	1	0	1	0	3
64.47	65.41	10204	87	72	15	19	19	34	4	13	2	8	1	2	1	1	0	1	0	1	0	3
65.41	66.45	10205	92	77	15	20	20	37	5	14	2	8	1	2	1	1	0	1	0	1	0	2
66.45	67.97	10206	90	76	14	21	19	36	5	14	2	8	1	2	1	1	0	1	0	1	0	2
67.97	69.34	10207	98	83	15	21	22	39	4	15	3	8	1	2	1	2	0	1	0	1	0	3
69.34	70.71	10208	96	82	15	21	21	39	5	14	3	8	1	2	1	2	0	1	0	1	0	2
70.71	71.99	10209	96	80	16	21	20	38	5	15	3	9	1	2	1	2	0	1	0	1	0	3
71.99	73.30	10210	102	84	17	22	23	39	4	15	3	10	1	2	1	2	0	1	0	1	0	3
73.30	74.07	10211	93	69	24	23	16	30	4	15	3	13	1	3	2	2	1	1	0	1	0	12
74.07	75.16	10212	140	106	34	36	25	47	6	24	4	17	1	4	3	4	1	2	0	2	0	16
75.16	75.99	10214	116	100	16	23	34	42	5	16	3	8	1	2	1	2	0	1	0	1	0	2
75.99	77.11	10215	117	100	18	27	26	46	6	18	3	9	1	2	1	2	0	1	0	1	0	3

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-06	3,781,634.00	242,253.00	435.56	92.35	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	0.91	10216	217	173	43	56	40	76	10	40	7	24	2	6	2	5	1	3	0	2	0	9
0.91	2.59	10217	349	300	49	93	68	134	18	68	12	27	2	8	1	6	1	2	0	2	0	12
2.59	3.96	10218	390	319	72	108	68	139	20	78	15	38	3	11	3	8	2	4	0	3	0	13
3.96	5.24	10219	372	288	84	102	60	126	18	70	13	45	3	11	4	10	2	5	1	4	1	17
5.24	6.83	10220	357	285	72	100	60	123	18	71	13	37	3	10	4	7	2	4	1	3	1	16
6.83	8.44	10221	491	394	97	138	83	172	25	97	18	51	3	14	5	10	2	6	1	4	1	17
8.44	10.06	10222	419	330	89	118	69	142	21	83	16	47	3	12	5	10	2	5	1	4	1	20
10.06	11.58	10223	563	460	103	159	98	197	29	115	21	56	4	16	3	11	2	6	1	4	1	15
11.58	13.11	10224	486	392	94	135	83	170	24	97	18	51	3	14	4	10	2	5	1	4	1	16
13.11	14.63	10226	532	430	102	148	89	189	27	106	20	54	3	15	4	11	2	6	1	5	1	17
14.63	16.15	10227	560	456	103	157	95	200	29	112	20	54	4	15	5	11	2	6	1	5	1	17
16.15	17.68	10228	492	392	100	136	81	172	25	96	18	53	3	14	5	10	2	6	1	5	1	17
17.68	19.20	10229	395	312	82	111	64	136	20	78	15	42	3	12	4	9	2	5	1	4	1	18
19.20	20.73	10230	395	311	84	112	65	134	20	78	15	43	3	11	6	9	2	5	1	4	1	19
20.73	22.25	10231	311	246	65	86	54	106	15	60	11	34	3	9	4	7	1	4	0	3	1	15
22.25	23.77	10232	405	315	90	109	67	137	20	77	15	48	3	12	4	9	2	6	1	5	1	19
23.77	25.30	10233	352	268	84	95	59	115	17	65	13	45	3	11	5	9	2	5	1	5	1	18
25.30	26.82	10234	226	171	54	62	39	71	11	42	8	28	2	7	3	6	1	4	0	3	1	19
26.82	28.04	10235	326	251	75	86	54	112	15	58	11	40	3	9	5	8	2	5	1	4	1	19
28.04	29.26	10236	212	171	41	55	41	75	10	38	7	21	2	5	3	5	1	3	0	2	0	11
29.26	30.48	10238	378	291	87	107	62	123	19	73	14	45	3	11	6	9	2	6	1	5	1	20
30.48	32.00	10239	177	129	49	51	28	53	8	33	7	25	2	6	6	4	1	3	0	2	0	21
32.00	33.50	10240	179	117	61	56	25	46	8	32	7	28	2	6	10	7	1	3	0	3	0	28
33.50	35.05	10241	367	284	84	98	63	124	17	67	13	44	3	10	5	8	2	5	1	5	1	18
35.05	36.30	10242	285	221	64	74	49	99	13	51	10	35	2	8	3	7	1	4	0	3	1	15
36.30	37.49	10243	306	240	67	81	52	106	15	57	11	36	2	9	3	7	1	4	1	3	1	14
37.49	39.01	10244	351	279	71	90	61	128	17	63	12	38	2	9	3	8	1	5	1	4	1	14
39.01	40.54	10245	369	291	78	96	62	132	17	68	13	42	3	10	3	8	2	5	1	4	1	15
40.54	42.06	10246	285	223	61	75	48	99	13	52	10	33	2	8	3	6	1	4	0	3	1	14

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-06	3,781,634.00	242,253.00	435.56	92.35	FC

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE										Sc
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
42.06	43.59	10247	404	310	94	107	67	137	19	73	14	50	3	12	6	10	2	6	1	5	1	20
43.59	45.11	10249	279	222	57	76	50	96	14	53	10	30	2	8	3	6	1	4	0	3	0	14
45.11	46.63	10250	369	285	84	100	60	125	18	69	13	44	3	11	5	9	2	5	1	5	1	19
46.63	47.85	10251	386	296	90	101	64	133	18	69	13	48	3	11	5	10	2	6	1	5	1	18
47.85	49.23	10252	285	221	64	77	49	95	14	53	10	33	2	8	4	7	1	4	0	3	1	15
49.23	50.26	10253	180	124	56	55	27	50	8	32	7	27	2	6	7	7	1	3	0	3	0	22
50.26	51.57	10254	208	167	42	54	39	73	10	38	7	22	2	5	2	4	1	3	0	2	0	7
51.57	52.97	10255	113	92	20	27	23	42	5	19	3	11	1	3	1	2	0	1	0	1	0	5
52.97	54.07	10256	91	78	13	19	22	36	4	14	2	8	1	2	1	1	0	1	0	1	0	2
54.07	55.53	10257	106	89	18	25	23	40	5	18	3	10	1	2	1	2	0	1	0	1	0	4
55.53	56.94	10258	90	78	13	21	21	35	4	15	2	7	1	2	1	1	0	1	0	1	0	3
56.94	58.58	10259	112	96	16	26	27	43	5	18	3	8	1	2	1	2	0	1	0	1	0	2
58.58	60.05	10261	139	118	22	34	31	52	7	24	4	12	1	3	1	2	0	1	0	1	0	4
60.05	61.57	10262	134	110	24	32	29	49	6	22	4	14	1	3	1	2	0	1	0	1	0	4
61.57	63.19	10263	124	105	20	30	28	46	6	21	4	11	1	3	1	2	0	1	0	1	0	3
63.19	64.77	10264	128	108	20	30	29	48	6	21	4	11	1	3	1	2	0	1	0	1	0	3
64.77	66.32	10265	109	92	17	26	25	41	5	18	3	9	1	2	1	2	0	1	0	1	0	3
66.32	67.85	10266	100	84	16	24	22	37	5	17	3	9	1	2	1	2	0	1	0	1	0	3
67.85	69.37	10267	91	79	12	22	21	36	5	15	2	7	1	2	0	1	0	1	0	1	0	2
69.37	70.90	10268	109	94	15	26	25	42	5	19	3	8	1	2	1	2	0	1	0	1	0	3
70.90	72.48	10270	158	135	22	43	34	57	9	31	5	12	1	3	1	2	0	1	0	1	0	4
72.48	74.04	10271	146	124	22	36	32	55	7	26	4	12	1	3	1	2	0	1	0	1	0	4
74.04	75.04	10272	155	130	24	38	34	58	8	27	5	13	1	3	1	3	1	1	0	1	0	4
75.04	76.11	10273	151	129	23	37	34	58	7	26	4	12	1	3	1	2	0	1	0	1	0	4
76.11	77.85	10274	178	135	44	47	33	57	8	31	6	23	2	5	2	5	1	3	0	3	0	14
77.85	78.88	10275	146	112	34	35	28	49	6	23	4	19	1	4	2	3	1	2	0	2	0	16
78.88	79.80	10276	172	132	39	42	34	59	7	27	5	21	1	4	2	6	1	2	0	2	0	15
79.80	81.56	10277	159	133	26	37	35	61	7	26	5	14	1	3	1	3	1	1	0	1	0	6
81.56	83.21	10278	138	117	21	31	31	55	6	21	4	12	1	3	1	2	0	1	0	1	0	3

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-06	*3,781,634.00*	*242,253.00*	*435.56*	*92.35*	*FC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
83.21	84.73	10279	108	92	16	24	25	43	5	17	3	9	1	2	1	2	0	1	0	1	0	3
84.73	86.26	10280	135	115	20	31	30	53	6	22	4	11	1	3	1	2	0	1	0	1	0	3
86.26	87.48	10282	198	164	34	49	39	74	10	35	6	19	1	5	1	4	1	2	0	2	0	5
87.48	89.09	10283	501	413	89	128	92	190	24	91	16	48	3	12	4	10	2	5	1	4	1	14
89.09	90.74	10284	444	361	83	116	78	166	21	82	15	45	3	11	4	9	2	5	1	4	1	14
90.74	92.35	10285	503	412	91	128	90	192	24	90	16	49	3	12	5	10	2	5	1	4	1	16

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-07	3,781,806.00	242,963.00	451.10	122.83	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	1.22	10286	342	264	79	90	60	118	16	59	11	40	3	10	8	8	2	4	1	4	1	14
1.22	2.71	10287	472	396	76	129	92	179	24	87	14	34	3	11	12	7	1	4	1	3	0	17
2.71	4.24	10288	433	354	79	117	87	158	21	75	13	35	3	11	13	8	1	4	1	3	1	15
4.24	5.39	10289	570	446	124	161	95	196	28	108	20	61	4	17	12	13	3	7	1	5	1	19
5.39	6.40	10290	490	381	109	136	80	172	23	90	17	53	3	15	12	11	2	6	1	5	1	18
6.40	7.83	10291	377	317	61	115	69	135	20	78	14	24	3	11	11	6	1	3	0	2	0	32
7.83	9.17	10293	319	247	72	95	54	108	15	59	11	31	3	10	14	7	1	3	0	3	0	26
9.17	10.52	10294	251	170	81	76	35	74	11	42	9	36	3	9	17	7	2	4	1	3	1	27
10.52	12.04	10295	313	231	83	84	49	104	14	54	11	42	3	10	8	9	2	5	1	4	1	15
12.04	13.87	10296	375	288	88	100	63	130	17	66	12	45	3	11	9	9	2	5	1	4	1	15
13.87	15.33	10297	214	162	52	56	38	72	10	36	7	27	2	6	5	5	1	3	0	2	0	9
15.33	16.15	10298	193	132	61	60	29	58	8	31	6	26	2	6	16	5	1	3	0	2	0	19
16.15	17.43	10299	173	142	31	44	35	65	8	29	5	15	1	4	4	3	1	2	0	1	0	7
17.43	18.75	10300	263	222	41	70	55	101	13	45	7	18	2	6	8	4	1	2	0	1	0	9
18.75	20.12	10302	427	337	89	126	70	145	24	84	14	43	3	13	9	9	2	5	1	4	1	14
20.12	21.46	10303	364	287	77	101	61	129	18	67	12	38	3	11	8	8	2	4	1	3	1	13
21.46	22.74	10304	389	307	82	108	67	138	19	70	13	39	3	11	10	9	2	4	1	3	1	15
22.74	24.08	10305	476	371	105	136	79	163	23	90	16	50	4	15	12	11	2	5	1	4	1	16
24.08	25.12	10306	459	360	100	131	77	158	22	86	16	48	4	14	12	10	2	5	1	4	1	16
25.12	26.18	10307	411	323	89	117	71	141	20	77	14	41	4	12	11	9	2	5	1	4	1	17
26.18	27.74	10308	339	275	63	86	72	122	16	56	10	30	3	9	9	6	1	3	0	3	0	14
27.74	28.96	10309	447	350	97	127	75	153	22	84	16	47	4	14	10	10	2	5	1	4	1	16
28.96	30.54	10310	393	303	90	112	65	134	19	72	14	43	3	12	12	9	2	5	1	4	1	16
30.54	31.82	10311	401	298	103	112	66	130	18	70	13	50	3	13	13	10	2	6	1	5	1	18
31.82	32.92	10312	441	327	114	125	70	142	21	79	15	56	3	14	14	12	2	6	1	5	1	19
32.92	34.44	10313	337	252	84	93	56	111	16	59	11	42	3	11	10	9	2	5	1	4	1	15
34.44	35.91	10314	388	287	102	108	63	125	18	68	13	50	3	13	12	10	2	6	1	5	1	17
35.91	36.88	10316	382	280	101	107	62	122	18	67	13	49	3	12	13	10	2	6	1	5	1	17
36.88	37.95	10317	141	107	34	40	26	47	6	24	4	15	1	4	6	3	1	2	0	1	0	13

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-07	3,781,806.00	242,963.00	451.10	122.83	FC

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE										Sc
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
37.95	39.01	10318	110	81	29	31	20	35	5	18	3	13	1	3	6	3	1	1	0	1	0	13
39.01	40.33	10319	119	76	43	40	16	31	5	20	4	17	1	4	12	4	1	2	0	2	0	19
40.33	41.73	10320	92	48	44	37	9	18	3	15	4	15	1	4	16	3	1	2	0	1	0	22
41.73	42.92	10321	356	269	87	96	60	119	16	61	12	44	3	11	9	9	2	5	1	4	1	16
42.92	44.14	10322	255	195	60	72	43	87	12	45	8	29	2	8	9	6	1	3	0	2	0	13
44.14	45.14	10323	385	288	97	105	62	130	17	66	13	48	3	12	12	10	2	5	1	4	1	17
45.14	46.63	10324	101	72	29	29	18	31	4	16	3	13	1	3	7	3	1	1	0	1	0	14
46.63	47.79	10326	383	290	94	110	64	125	19	69	13	45	3	12	12	9	2	5	1	4	1	16
47.79	49.29	10327	273	204	68	78	46	89	13	48	9	31	2	8	11	7	1	4	1	3	0	15
49.29	50.66	10328	96	50	46	39	9	19	3	15	4	16	2	4	17	4	1	2	0	2	0	23
50.66	52.21	10329	92	47	45	36	9	18	3	14	4	16	1	4	16	3	1	2	0	2	0	23
52.21	53.68	10330	84	45	40	33	9	17	3	13	3	14	1	3	15	3	1	2	0	1	0	21
53.68	55.11	10331	141	97	44	45	22	41	6	24	5	18	2	5	11	4	1	2	0	2	0	16
55.11	56.63	10332	148	95	53	49	20	39	6	25	5	22	2	6	14	5	1	3	0	2	0	22
56.63	58.16	10333	128	77	51	45	16	31	5	21	5	20	2	5	15	4	1	2	0	2	0	24
58.16	59.80	10334	234	167	67	71	36	71	10	41	8	30	2	8	13	6	1	3	0	3	0	19
59.80	60.96	10335	97	50	47	38	9	19	3	15	4	17	1	4	16	4	1	2	0	2	0	25
60.96	62.33	10336	394	291	103	112	63	128	18	69	13	49	3	13	15	10	2	5	1	4	1	19
62.33	63.40	10337	262	198	64	76	44	85	12	47	9	29	2	8	11	6	1	3	0	2	0	14
63.40	64.22	10339	307	228	79	85	50	101	14	53	10	39	2	10	10	8	2	4	1	3	1	14
64.22	65.65	10340	388	285	103	108	62	126	18	67	13	50	3	12	14	10	2	5	1	5	1	18
65.65	67.30	10341	397	292	105	111	64	129	18	68	13	51	3	12	15	10	2	6	1	5	1	18
67.30	68.98	10342	324	241	84	92	54	104	15	57	11	41	3	10	11	8	2	4	1	3	1	20
68.98	69.98	10343	245	185	61	73	40	80	12	45	9	28	2	8	11	6	1	3	0	2	0	22
69.98	71.63	10344	420	313	108	116	69	139	19	73	14	53	3	13	13	11	2	6	1	5	1	19
71.63	73.21	10345	340	256	84	92	56	112	16	60	12	42	3	11	8	9	2	5	1	4	1	14
73.21	74.83	10346	200	155	45	51	38	68	9	34	6	24	2	6	4	5	1	3	0	2	0	10
74.83	76.17	10347	310	232	78	84	52	103	14	53	10	39	2	9	9	8	2	4	1	4	1	14
76.17	77.42	10348	423	331	93	118	72	142	21	81	15	48	3	13	7	10	2	5	1	4	1	14

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-07	3,781,806.00	242,963.00	451.10	122.83	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
77.42	78.64	10350	392	301	91	110	64	135	18	70	13	44	3	12	12	9	2	5	1	4	1	17
78.64	79.58	10351	360	275	85	101	58	125	17	64	12	41	3	11	12	8	2	4	1	3	1	17
79.58	80.41	10352	426	332	94	117	73	145	20	79	15	47	3	13	8	10	2	5	1	4	1	16
80.41	81.69	10353	432	339	93	116	74	153	20	78	15	47	3	13	8	10	2	5	1	4	1	15
81.69	83.21	10354	351	273	78	92	60	123	16	62	12	40	3	10	6	8	2	4	1	4	1	13
83.21	84.73	10355	275	217	58	74	48	98	13	49	9	29	2	8	6	6	1	3	0	2	0	12
84.73	86.26	10356	346	267	79	90	61	120	16	59	11	41	3	10	7	8	2	4	1	4	1	11
86.26	87.39	10357	408	316	91	108	70	143	19	72	13	46	3	12	8	9	2	5	1	4	1	14
87.17	88.85	10358	330	258	72	89	56	116	15	59	11	36	3	10	8	7	1	4	1	3	1	16
88.85	90.43	10360	428	340	88	117	73	154	21	78	14	44	3	12	9	9	2	5	1	4	1	15
90.43	92.05	10361	365	291	74	96	64	134	17	64	12	37	3	10	7	7	1	4	1	3	0	13
92.05	93.57	10362	410	323	86	109	70	149	19	73	13	44	3	12	8	9	2	4	1	4	1	16
93.57	94.95	10363	432	342	90	117	73	155	20	79	15	46	3	13	8	9	2	5	1	4	1	15
94.95	95.80	10364	289	218	71	81	47	95	13	52	10	35	2	9	9	7	1	4	1	3	0	20
95.80	96.93	10365	426	338	88	114	79	146	20	79	14	46	3	13	6	9	2	5	1	4	1	15
96.93	98.45	10366	385	305	80	104	65	138	18	71	13	41	3	11	6	8	2	4	1	3	1	13
98.45	99.97	10367	407	323	84	111	71	143	20	76	14	43	3	12	7	9	2	4	1	3	1	15
99.97	101.50	10368	375	295	80	102	64	133	18	68	13	40	3	11	9	8	2	4	1	3	1	15
101.50	103.02	10369	365	286	79	99	61	130	17	66	12	40	3	11	8	8	2	4	1	3	1	15
103.02	104.55	10370	393	312	82	106	68	140	19	72	13	41	3	11	7	9	2	4	1	3	1	14
104.55	106.07	10371	342	268	75	95	58	120	16	62	11	37	3	10	8	8	1	4	1	3	1	14
106.07	107.20	10372	411	333	79	111	75	149	20	76	14	38	3	11	8	8	2	4	1	3	1	17
107.20	108.05	10374	566	494	72	146	126	221	29	102	17	32	4	12	9	7	1	3	0	3	0	25
108.05	109.48	10375	437	348	89	122	76	154	21	82	15	44	4	13	10	9	2	5	1	4	1	15
109.48	110.73	10376	453	357	95	126	79	159	22	83	15	46	4	13	12	10	2	5	1	4	1	17
110.73	111.86	10377	593	504	89	157	126	223	30	108	18	41	4	14	11	9	2	4	1	3	1	31
111.86	113.51	10378	439	345	95	123	75	151	21	83	16	46	4	13	10	10	2	5	1	4	1	19
113.51	115.15	10379	496	396	100	137	87	174	24	94	17	50	4	15	9	11	2	5	1	4	1	18
115.15	116.74	10380	437	344	93	120	72	155	21	81	15	47	3	13	8	10	2	5	1	4	1	17

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-07	3,781,806.00	242,963.00	451.10	122.83	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
116.74	118.26	10381	381	301	80	104	64	136	18	70	13	41	3	11	7	8	2	4	1	3	1	13
118.26	119.79	10382	379	298	81	102	63	136	18	69	13	41	3	11	7	9	2	4	1	3	1	14
119.79	121.31	10383	363	284	79	99	60	128	17	66	12	40	3	11	7	8	2	4	1	3	1	15
121.31	122.83	10384	370	292	77	100	64	131	18	67	12	39	3	11	8	8	2	4	1	3	1	15

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-08	3,782,028.00	242,860.00	444.09	92.35	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.58	2.19	10385	225	178	48	57	41	82	10	39	6	26	2	6	3	5	1	3	0	2	0	9
2.19	2.74	10387	231	179	53	58	41	82	10	39	7	29	2	7	4	5	1	3	0	2	0	9
2.74	3.60	10388	341	261	81	91	57	118	14	62	11	42	3	10	8	8	2	4	1	4	0	16
3.60	5.18	10389	117	97	20	31	23	44	5	22	4	10	1	3	2	2	0	1	0	1	0	6
5.18	6.19	10390	241	182	59	68	39	79	10	46	9	29	2	8	7	6	1	3	0	2	0	15
6.19	7.38	10391	196	145	52	58	30	61	8	38	7	25	2	7	7	5	1	3	0	2	0	13
7.38	8.53	10392	185	135	50	58	26	56	7	38	7	23	2	7	8	5	1	3	0	2	0	14
8.53	10.06	10393	384	300	84	100	66	138	16	68	13	43	3	11	7	9	2	5	1	4	1	14
10.06	11.58	10394	436	337	99	115	73	153	19	78	14	51	3	13	8	11	2	6	1	4	1	16
11.58	13.11	10395	413	311	102	110	66	140	18	73	14	53	3	13	9	11	2	6	1	5	1	17
13.11	14.63	10396	324	250	74	82	55	117	14	54	10	38	2	10	6	8	2	4	1	4	0	13
14.63	16.15	10398	407	303	104	107	64	138	16	71	14	52	3	13	9	11	2	6	1	5	1	17
16.15	17.68	10399	306	228	78	81	51	101	13	53	11	39	2	10	7	9	2	5	1	4	1	16
17.68	19.05	10400	257	198	59	67	44	90	11	45	9	30	2	8	5	6	1	3	0	3	0	11
19.05	20.57	10401	380	283	97	100	62	127	16	66	13	49	3	12	8	10	2	6	1	5	1	17
20.57	22.16	10402	394	294	100	103	64	133	16	68	14	50	3	13	9	11	2	6	1	5	1	17
22.16	23.77	10403	410	307	103	107	67	139	17	71	14	52	3	13	8	11	2	6	1	5	1	17
23.77	25.30	10404	362	273	89	97	59	123	15	63	13	44	3	12	8	10	2	5	1	4	1	16
25.30	26.82	10405	356	264	92	95	56	119	15	62	13	46	3	12	9	10	2	5	1	5	1	17
26.82	28.35	10406	367	275	92	97	59	124	15	64	13	46	3	12	8	10	2	5	1	4	1	16
28.35	29.87	10407	384	296	87	101	64	135	16	67	14	43	3	12	8	10	2	5	1	4	1	15
29.87	31.39	10408	382	287	95	103	61	129	16	68	14	47	3	13	9	11	2	6	1	5	1	17
31.39	32.92	10410	389	290	98	105	61	130	16	69	14	49	3	13	9	11	2	6	1	5	1	17
32.92	34.44	10411	468	349	119	126	72	156	20	84	18	59	3	16	10	14	3	7	1	6	1	18
34.44	35.97	10412	383	285	98	103	60	128	16	68	14	48	3	13	9	11	2	6	1	5	1	17
35.97	36.94	10413	341	247	93	93	52	109	14	60	13	46	3	12	9	10	2	6	1	5	1	17
36.94	37.89	10414	313	229	84	83	49	103	13	54	11	42	3	11	8	9	2	5	1	4	1	14
37.89	39.35	10415	270	195	75	77	40	85	11	49	10	35	3	10	10	8	2	4	1	3	0	18
39.35	40.54	10416	394	292	101	103	61	133	16	67	14	51	3	13	9	11	2	6	1	5	1	16

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-08	3,782,028.00	242,860.00	444.09	92.35	FC

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE										Sc
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
40.54	41.45	10417	270	198	71	86	41	85	10	51	11	27	3	9	17	7	1	3	0	3	0	19
41.45	42.61	10418	366	269	97	102	55	118	15	67	14	47	3	13	10	11	2	6	1	5	1	16
42.61	43.98	10419	410	303	107	109	64	136	17	72	15	54	3	14	9	12	2	6	1	5	1	17
43.98	45.51	10420	410	305	106	108	64	139	17	70	15	52	3	14	9	12	2	6	1	5	1	17
45.51	46.12	10422	238	162	76	72	31	66	9	46	11	35	3	10	9	8	2	5	1	4	1	20
46.12	48.16	10423	397	293	104	106	62	131	16	70	14	52	3	14	9	12	2	6	1	5	1	18
48.16	49.68	10424	429	320	109	113	68	144	18	75	15	55	3	14	9	12	2	7	1	5	1	17
49.68	51.21	10425	406	303	104	107	65	136	16	71	15	52	3	13	9	11	2	6	1	5	1	17
51.21	52.73	10426	402	304	98	106	65	138	17	70	14	49	3	13	8	11	2	6	1	5	1	17
52.73	54.25	10427	378	283	96	99	61	128	15	65	14	47	3	13	8	11	2	6	1	5	1	16
54.25	55.78	10428	335	254	81	87	56	115	14	57	12	40	3	11	7	9	2	5	1	4	1	14
55.78	57.30	10429	404	301	103	105	65	136	16	69	15	51	3	14	9	11	2	6	1	5	1	16
57.30	58.83	10430	397	297	100	104	64	134	16	68	14	50	3	13	8	11	2	6	1	5	1	17
58.83	60.35	10431	358	262	97	95	56	117	15	61	13	47	3	13	9	11	2	6	1	5	1	20
60.35	61.87	10433	459	341	118	121	73	153	19	79	18	57	4	16	10	13	3	7	1	6	1	19
61.87	63.40	10434	617	459	158	165	96	207	26	109	23	79	4	21	13	18	4	10	1	8	1	25
63.40	64.92	10435	355	262	93	99	55	116	14	64	13	43	3	12	12	10	2	5	1	4	1	18
64.92	66.45	10436	389	286	103	104	60	129	15	68	14	50	3	13	10	11	2	6	1	5	1	18
66.45	67.97	10437	416	313	104	110	67	141	17	73	15	52	3	14	8	12	2	6	1	5	1	17
67.97	68.88	10438	312	235	77	83	50	105	13	55	12	37	3	11	7	9	2	5	1	4	0	15
68.88	70.20	10439	342	257	86	90	55	116	14	59	12	42	3	11	7	10	2	5	1	4	1	15
70.20	71.38	10440	249	174	75	78	32	71	10	50	11	34	3	10	10	8	2	4	1	3	0	19
71.38	72.73	10441	451	339	112	120	70	154	19	80	17	56	3	15	8	13	3	7	1	6	1	17
72.73	74.07	10442	413	306	107	110	65	137	17	72	15	53	3	14	9	12	2	6	1	5	1	17
74.07	75.59	10443	377	277	100	104	58	123	15	67	14	48	3	13	11	11	2	6	1	5	1	19
75.59	77.11	10444	339	259	80	88	59	117	14	58	11	40	3	10	7	9	2	5	1	4	1	13
77.11	78.64	10446	412	308	104	110	65	139	17	72	16	50	4	14	10	12	2	6	1	5	1	17
78.64	80.16	10447	360	270	90	96	58	122	15	63	13	44	3	12	9	10	2	5	1	4	1	17
80.16	81.69	10448	372	285	87	100	60	128	15	67	14	42	3	12	8	10	2	5	1	4	1	15

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-08	3,782,028.00	242,860.00	444.09	92.35	FC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
81.69	83.21	10449	421	314	107	112	67	142	17	73	15	52	3	14	9	12	2	7	1	5	1	17
83.21	84.73	10450	435	327	108	116	69	148	18	77	16	53	3	14	9	12	2	6	1	5	1	17
84.73	86.26	10451	440	339	101	114	74	156	18	76	16	49	3	14	9	11	2	6	1	5	1	16
86.26	87.39	10452	304	221	83	85	45	96	13	56	12	41	3	11	7	9	2	5	1	4	1	15
87.39	88.18	10453	394	290	104	108	59	129	16	71	15	51	3	14	9	12	2	6	1	5	1	18
88.18	89.31	10454	392	293	98	103	63	133	16	68	14	49	3	13	9	11	2	6	1	5	1	16
89.31	90.83	10455	347	254	93	94	53	113	14	61	13	46	3	12	9	10	2	6	1	5	1	16
90.83	92.35	10456	320	232	88	91	46	101	13	59	13	42	3	12	9	10	2	5	1	4	1	18

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-09	3,782,413.00	242,537.00	425.20	49.68	FC

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE										
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	1.58	10458	126	108	18	29	29	50	6	20	3	10	1	2	1	2	0	1	0	1	0	4
1.58	3.05	10459	369	293	77	101	63	129	17	70	13	40	3	11	5	9	2	4	1	3	0	15
3.05	4.51	10460	368	292	76	101	63	128	17	71	13	40	3	11	5	8	2	4	1	3	0	14
4.51	5.79	10461	81	74	7	19	21	34	4	13	2	3	1	1	1	1	0	0	0	0	0	2
5.79	6.86	10462	467	372	95	129	80	163	22	91	16	51	3	13	5	10	2	5	1	4	1	17
6.86	7.92	10463	156	126	30	45	28	54	7	31	6	15	2	5	3	3	1	1	0	1	0	8
7.92	9.45	10464	150	114	36	47	23	45	7	33	6	17	2	5	4	4	1	2	0	1	0	12
9.45	11.13	10465	339	277	62	95	61	121	16	67	12	31	3	9	5	7	1	3	0	2	0	15
11.13	12.65	10466	319	253	66	89	55	110	15	62	11	34	3	9	4	7	1	4	0	3	0	14
12.65	14.02	10467	223	179	45	61	40	78	10	43	8	23	2	6	3	5	1	2	0	2	0	12
14.02	15.64	10468	435	349	86	119	75	155	20	84	15	45	3	12	5	9	2	5	1	4	1	16
15.64	16.49	10469	408	316	93	110	69	139	19	75	14	49	3	12	6	10	2	5	1	4	1	18
16.49	17.89	10471	415	320	95	108	72	143	18	74	13	52	3	11	6	10	2	5	1	5	1	18
17.89	19.51	10472	363	277	87	95	63	121	16	65	12	48	3	10	5	9	2	5	1	4	1	17
19.51	21.03	10473	404	308	96	107	68	136	18	73	14	52	3	12	7	10	2	5	1	5	1	19
21.03	22.25	10474	349	266	83	93	59	118	15	63	11	45	3	10	6	9	2	5	1	4	1	19
22.25	23.44	10475	347	267	80	91	60	118	15	62	12	43	3	10	6	8	2	5	1	4	1	18
23.44	24.84	10476	197	152	46	53	34	66	9	36	7	24	2	6	4	5	1	2	0	2	0	16
24.84	26.52	10477	98	80	18	23	21	37	4	16	3	10	1	2	1	2	0	1	0	1	0	3
26.52	28.19	10479	109	88	21	26	23	39	6	17	3	12	1	3	1	2	0	1	0	1	0	4
28.19	30.11	10480	121	100	20	27	27	46	5	19	3	12	1	2	1	2	0	1	0	1	0	3
30.11	30.27	10481	275	231	43	74	55	102	13	52	9	21	2	6	4	4	1	2	0	2	0	15
30.27	31.61	10482	103	87	17	23	24	40	5	16	3	9	1	2	1	2	0	1	0	1	0	3
31.61	32.92	10483	93	76	17	21	20	35	4	14	3	9	1	2	1	2	0	1	0	1	0	3
32.92	34.44	10484	110	91	19	25	24	42	5	17	3	11	1	2	1	2	0	1	0	1	0	3
34.44	35.97	10485	131	107	24	30	29	49	6	21	4	14	1	3	1	2	1	1	0	1	0	4
35.97	37.49	10486	127	104	24	29	27	47	5	20	3	13	1	3	1	2	0	1	0	1	0	4
37.49	39.01	10487	125	102	23	28	27	47	5	20	3	13	1	3	1	2	0	1	0	1	0	4
39.01	40.54	10488	117	95	22	27	25	44	5	19	3	12	1	2	1	2	0	1	0	1	0	4

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Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
LP21-09	*3,782,413.00*	*242,537.00*	*425.20*	*49.68*	*FC*

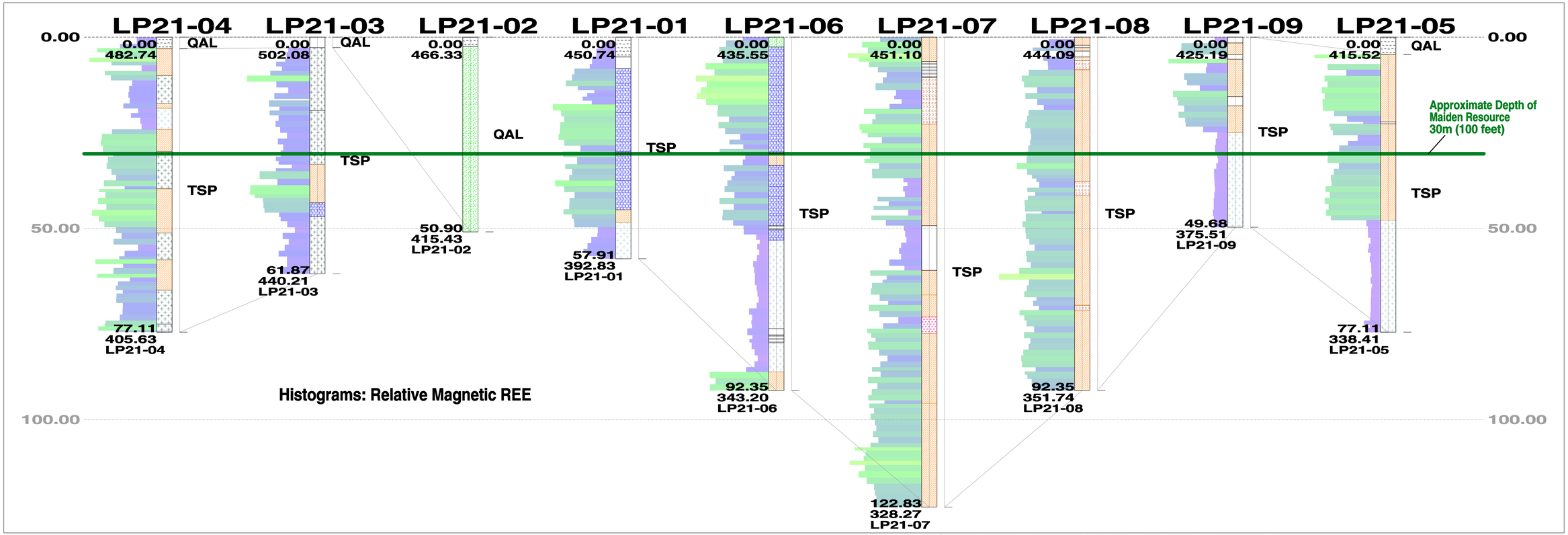
From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
40.54	42.06	10489	128	106	23	29	28	49	6	20	3	13	1	3	1	2	0	1	0	1	0	4
42.06	43.59	10490	134	112	23	30	30	51	6	21	3	13	1	3	1	2	0	1	0	1	0	3
43.59	45.11	10491	134	111	23	30	29	52	6	21	3	13	1	3	1	2	0	1	0	1	0	4
45.11	46.63	10492	142	118	24	32	32	54	6	22	4	14	1	3	1	3	1	1	0	1	0	3
46.63	48.16	10494	128	105	23	30	28	47	6	20	4	13	1	3	1	2	1	1	0	1	0	4
48.16	49.68	10495	133	109	24	31	28	50	6	22	4	13	1	3	1	2	1	1	0	1	0	4

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Appendix E – Fence Diagrams

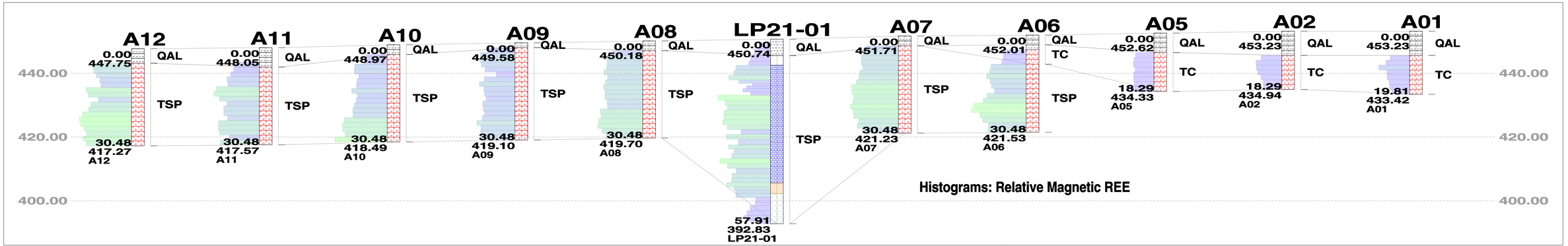
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LP21 ALL Holes



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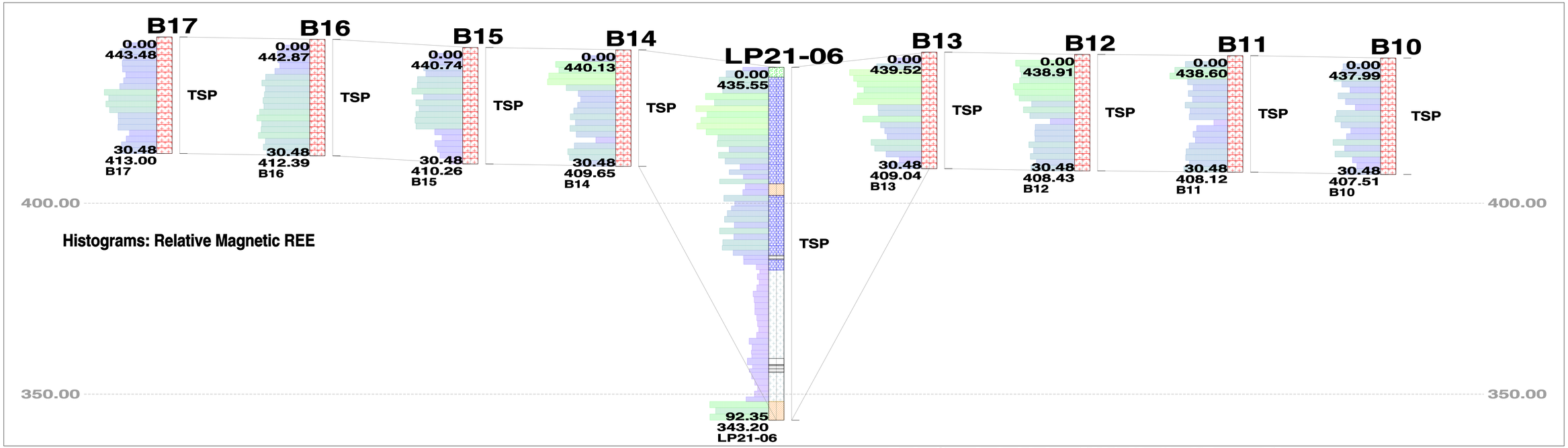
Section A



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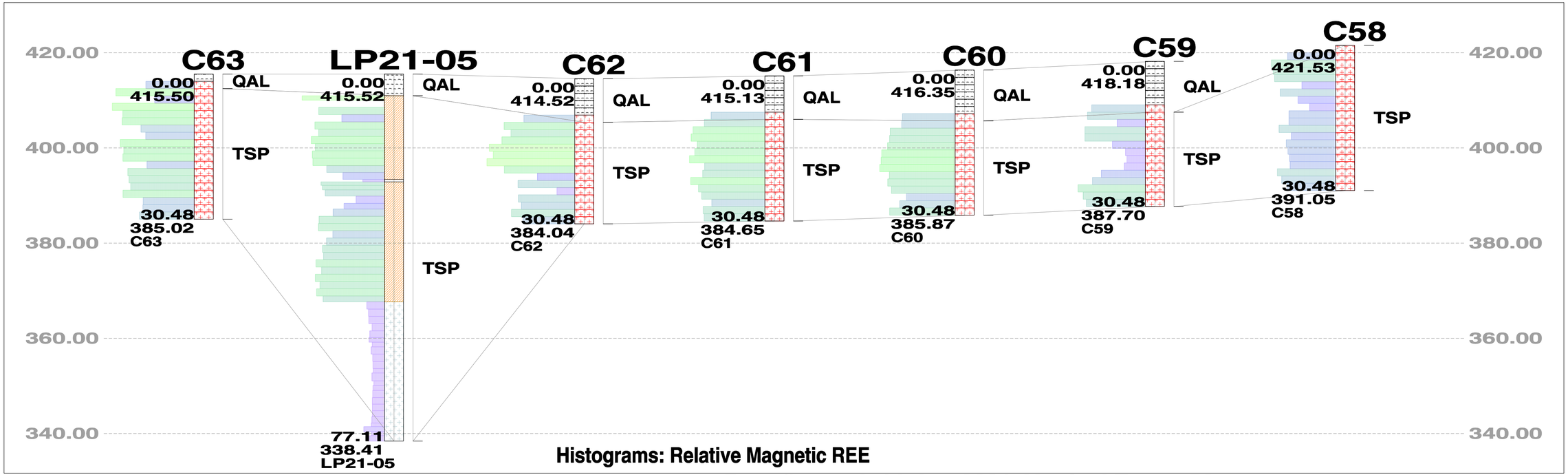
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Section B



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Section C1

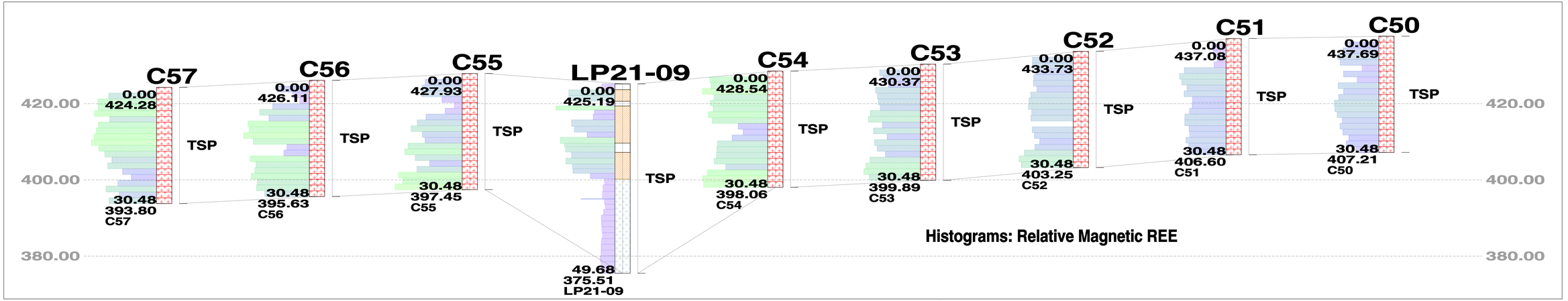


Histograms: Relative Magnetic REE

Date Created: 14-Jun-2021 Vertical Exag.: 50 .

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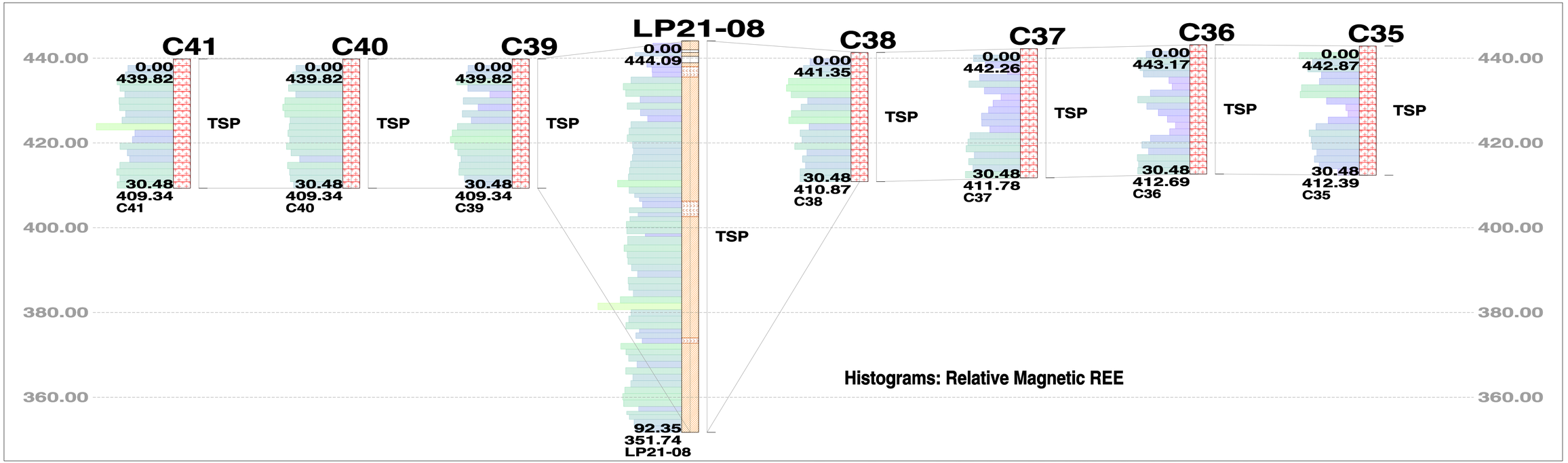
Section C2



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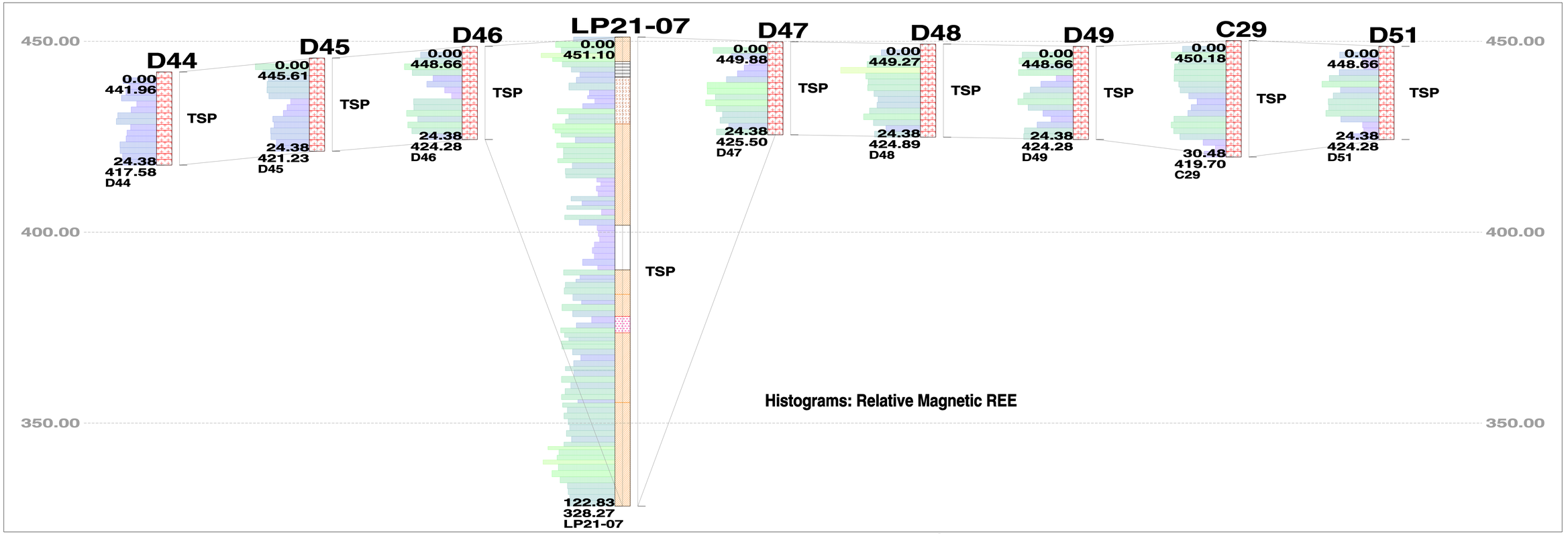
Section C3



Date Created: 14-Jun-2021 Vertical Exag.: 50 .

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Section D



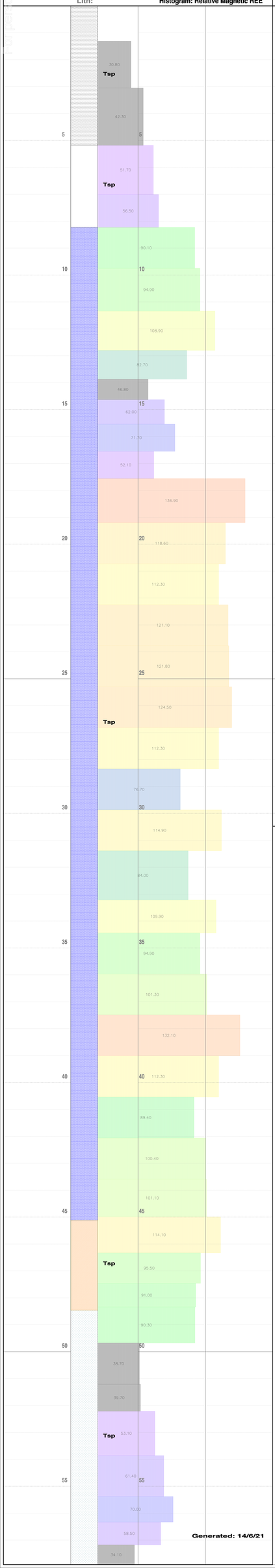
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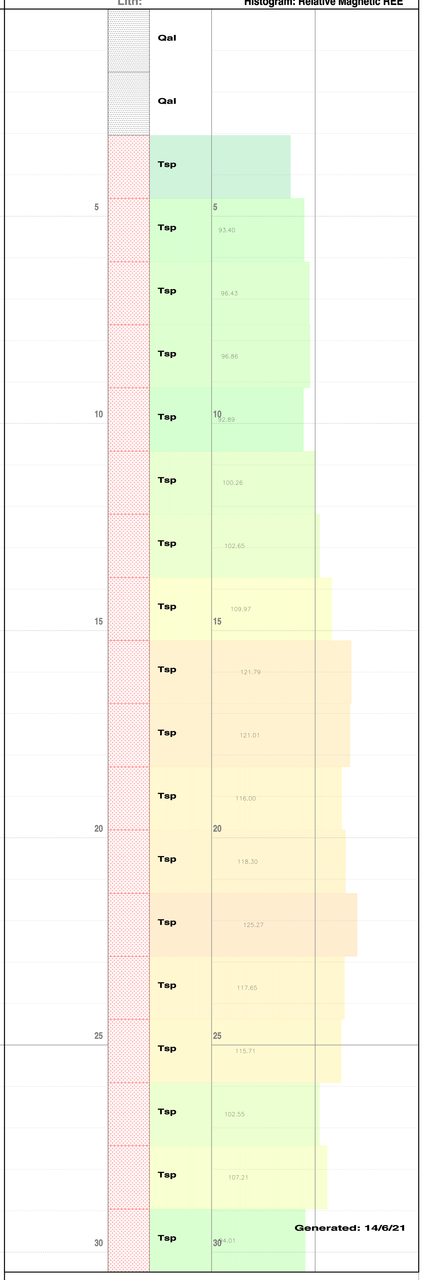
Appendix F – Strip Logs

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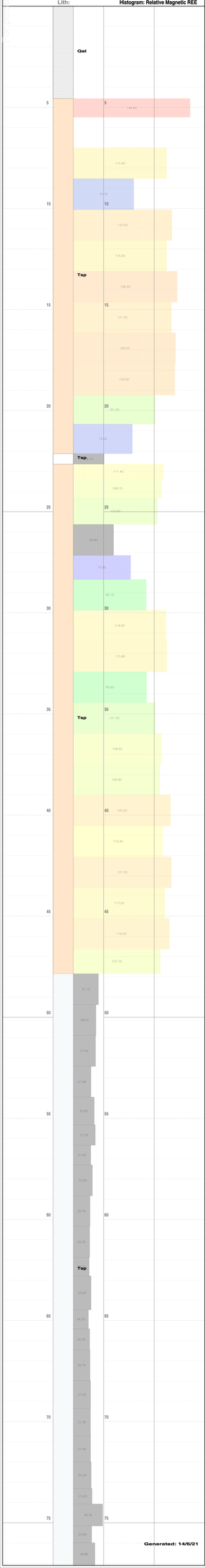
Hole: LP21-01
Company:
County:
Date:
State:
E: 242204.00 N: 3781038.00 Elev: 450.74
TWP: RNG: SEC:
Logged Top: Logged Bot:
Logger:



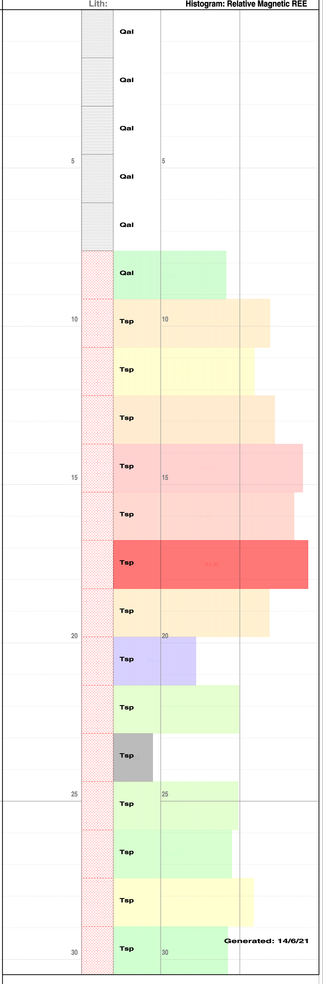
Hole: A07
Company:
County:
Date:
State:
E: 242217.89 N: 3781036.10 Elev: 451.71
TWP: RNG: SEC:
Logged Top: Logged Bot:
Logger:



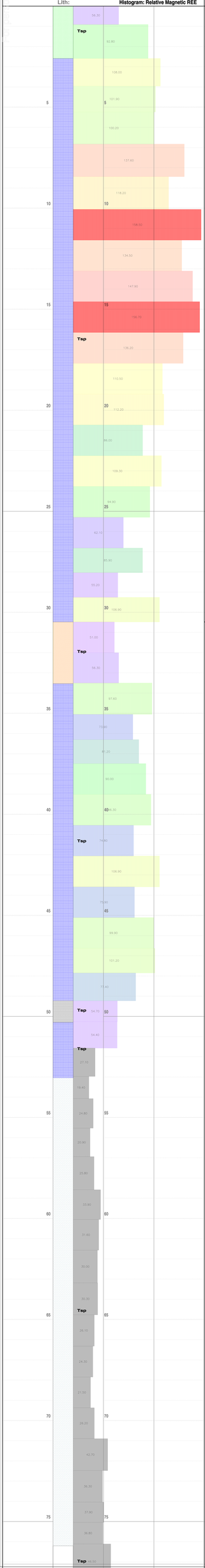
Hole: LP21-05
Company:
County:
Date:
State:
E: 242411.00
N: 3782610.00
Elev: 415.52
TWP:
RNG:
SEC:
Logged Top:
Logged Bot:
Logger:



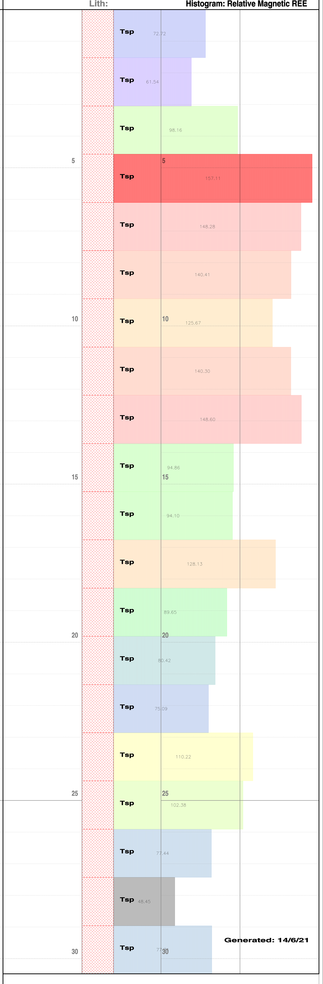
Hole: C62
Company:
County:
Date:
State:
E: 242408.89
N: 3782607.11
Elev: 414.52
TWP:
RNG:
SEC:
Logged Top:
Logged Bot:
Logger:



Hole: **LP21-06**
Company:
Date:
E: **242253.00** N: **3781634.00** Elev: **435.55**
TWP: RNG: SEC:
Logged Top: Logged Bot:
County:
State:
Logger:


Hole: **B13**
Company:
Date:
E: **242248.89** N: **3781620.10** Elev: **439.52**
TWP: RNG: SEC:
Logged Top: Logged Bot:
County:
State:
Logger:



Hole: **LP21-07**
Company: County:
Date: State:
E: **242963.00** N: **3781806.00** Elev: **451.10**
TWP: RNG: SEC:
Logged Top: Logged Bot:
Logger:

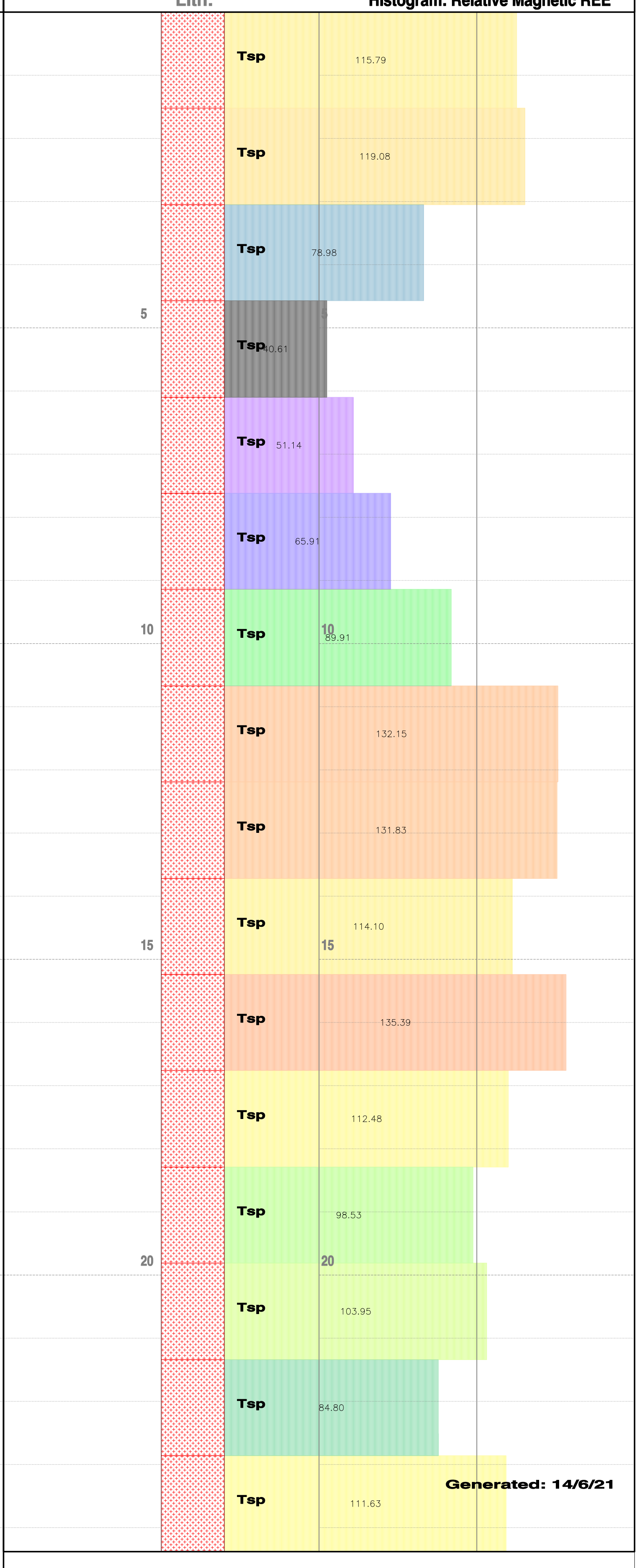
Lith: **Histogram: Relative Magnetic REE**



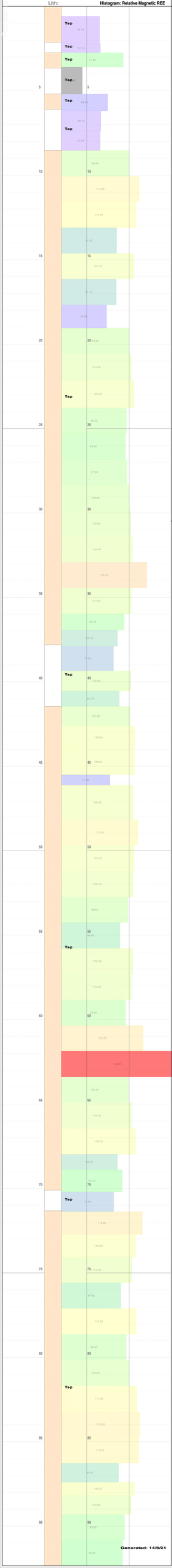
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Hole: **D47**
Company: County:
Date: State:
E: **242971.89** N: **3781801.11** Elev: **449.88**
TWP: RNG: SEC:
Logged Top: Logged Bot:
Logger:

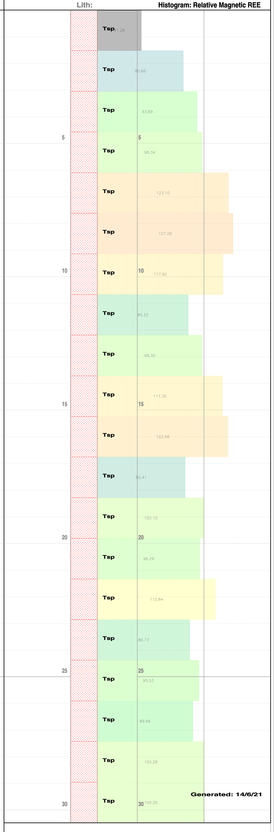
Lith: **Histogram: Relative Magnetic REE**



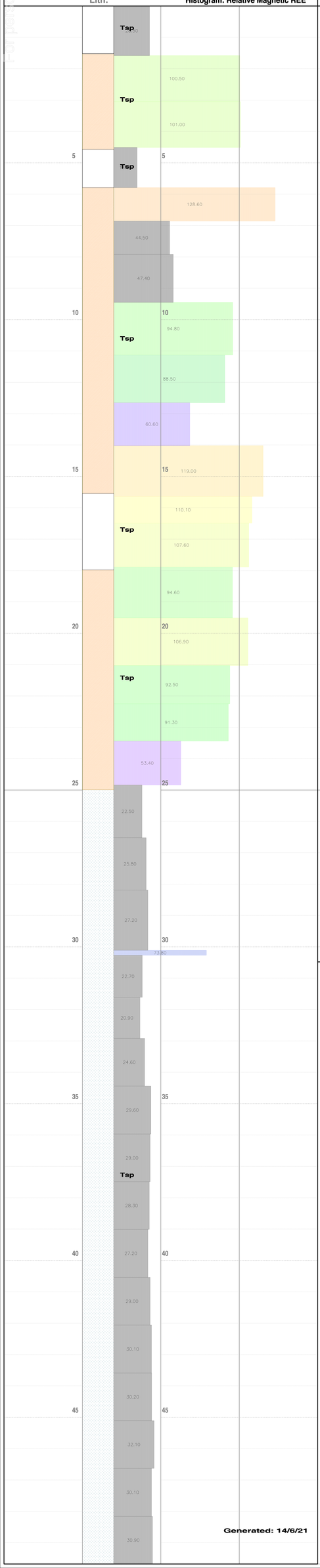
Hole: **LP21-08**
Company:
Date:
E: 242860.00 N: 3782028.00 Elev: 444.09
TWP: RNG: SEC:
Logged Top: Logged Bot:
Logger:



Hole: **C38**
Company:
Date:
E: 242864.89 N: 3782030.11 Elev: 441.35
TWP: RNG: SEC:
Logged Top: Logged Bot:
Logger:



Hole: LP21-09
Company:
County:
Date:
State:
E: 242537.00
N: 3782413.00
Elev: 425.19
TWP:
RNG:
SEC:
Logged Top:
Logged Bot:
Logger:



Hole: C54
Company:
County:
Date:
State:
E: 242556.89
N: 3782413.11
Elev: 428.54
TWP:
RNG:
SEC:
Logged Top:
Logged Bot:
Logger:

