AMERICAN RARE EARTHS ABN 83 003 453 503

ASX RELEASE

07 December 2023

Exceptional results from drilling program at Halleck Creek

High Grade Drill Intercepts include 226.5m (743 ft) @ 5084 ppm TREO

Highlights

- Interim 2023 resource drilling results from 8 diamond drill holes at Halleck Creek.
- One deep hole drilled to 302 m, assays have confirmed **consistent** enriched REE mineralisation from surface to 302m (990.81 ft), where the deposit remains open at depth.
    - Significant intercept in this hole included **226.5m @ 5084 ppm "Total Rare Earth Oxide" TREO and 1311 ppm** magnet rare earth oxides **("MREO").**
    - **Figure 5** – Fence Diagram illustrates the potential for significantly more resources at higher grades.
- Core holes exhibit TREO **average of 4,478 ppm, which is 35% higher than the 3,309 ppm TREO average from the Company's previous resource estimate.**
    - 7 holes exhibit TREO grades averaging 4,550 ppm (the eighth was 3,718 ppm).
    - **Highest TREO grade observed of 9,881ppm.**
- High value magnetic rare earths neodymium and praseodymium ("NdPr") averaged 23% of TREO consistent with prior drilling.
- Metallurgy results completed to date indicate that the ore is easily leachable and does not require the complex cracking operation and additional processing steps as seen in hard rock deposits.
    - **4,448 ppm is easily upgraded to ~2% TREO** utilising Wet High Intensity Magnetic Separation (WHIMS) conventional technology.[1]
- Assays are pending for a further 15 reverse circulation ("RC") drill holes.

American Rare Earths (ASX: ARR | ADRs - OTCQX: AMRRY | Common Shares - OTCQB: ARRNF) ("ARR" or the "Company") is pleased to announce the exceptional results from the recently completed diamond drilling program[2] at Overton Mountain, located within the broader Halleck Creek Rare Earths Project, Wyoming. These results, with pending assays from RC holes, will provide key inputs to upgrading the current 1.43 billion tonne JORC Resource[3], and furthermore confirms that the deposit remains open at depth to at least 302 m (990.81 ft). The assays received to date exhibit TREO averages 4,478 ppm, which is significantly higher than the 3,309 ppm TREO deposit average from the Company's previous resource estimate.

1. ASX announcement October 19, 2023
2. ASX announcement November 1, 2023
3. ASX announcement March 30, 2023

CEO, Donald Swartz commented on the results:

“These drill results are simply outstanding. The purpose of this drill campaign was to confirm that the deposit is actually much larger than the current resource model, while also being homogenous and cost-effective to mine. We are very excited to upgrade the existing JORC Resource in the near-term as well as with the future potential given that the depth of enrichment was more than double previous results. The exploration team has exceeded expectations, and we eagerly await the forthcoming RC assays. We have not only seen an increase in grade but also extremely encouraged that the deposit remains open at depth.”

“Furthermore, the recent metallurgy results indicate the Halleck Creek Project is similar to a clay hosted rare earth deposit when it comes to processing technology. The ore easily leaches and will not require the complex cracking operation and additional processing steps seen with other hard rock deposits. Being low in the penalty elements of Thorium and Uranium, places Halleck Creek in a unique position of having the best of both worlds (higher grade and easier processing). We are looking forward to the pending assays, upgrading the resource and rapidly advancing our flagship project.”

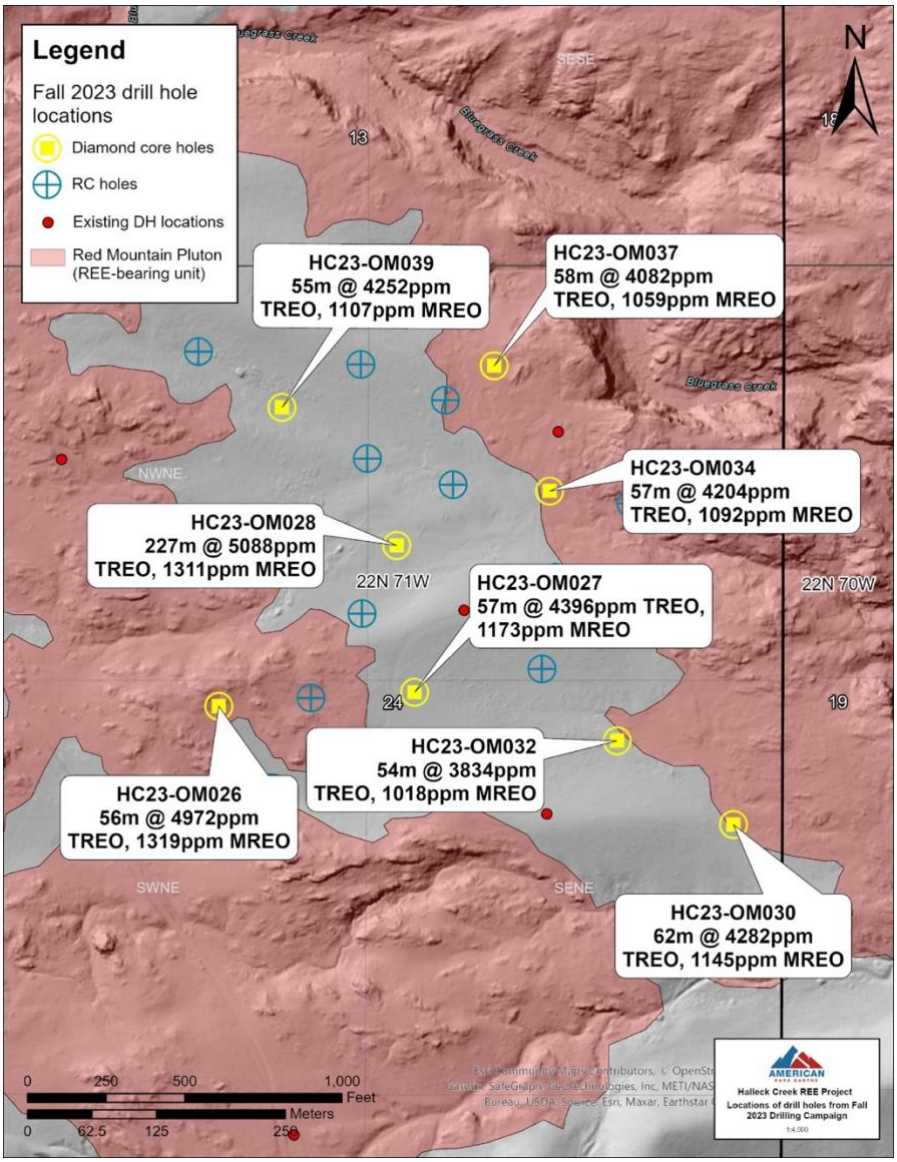


Figure 1 – Fall 2023 drill hole locations

Technical Summary

Assays for all 8 diamond core holes drilled at the Overton Mountain resource area have been received (Table 2, Appendix B **– Detailed assay data from diamond core holes**). Major intercepts from new assays continue to show outstanding drill results with consistent TREO grade from surface. These new results include:

- HC23-OM026 averages 5,005 ppm TREO over 64.22 m.
- HC23-OM027 averages 4,898 ppm TREO over 47.67 m.
- HC23-OM030 averages 4,770 ppm TREO over 28.50 m; averages 4,154 ppm TREO over 44.50 m.
- HC23-OM032 averages 4,130 ppm TREO over 47.50 m.
- HC23-OM034 averages 4,220 ppm TREO over 64.50 m.
- HC23-OM037 averages 3,980 ppm TREO over 47.82 m; averages 4,266 ppm TREO over 23.00 m.
- HC23-OM039 averages 4,411 ppm TREO over 25.50 m; averages 4,481 ppm TREO over 33.47 m.

HC23-OM028, which extends to 302 m (990.81 ft), exhibited several substantial intercepts, and revealed that the deposit remains open at depth. The hole contains 227 m (744.75 ft) of material exceeding 1,500ppm with an average grade 5,088 over that span. Higher grade intercepts include:

- Average TREO of 4,532 ppm between 5.0-47.5 m depth (42.50 m).
- Average TREO of 5,527 ppm between 62.48-129.25 m depth (66.77 m).
- Average TREO of 5,193 ppm between 129.35-191.15 m depth (61.80 m).
- Average TREO of 5,635 ppm between 191.25-209 m depth (17.75 m).
- Average TREO of 5,114 ppm between 219.9-302 m depth (82.10 m).

Average NdPr comprises 23% of TREO from these eight core holes. The holes continue to exhibit low quantities of penalty elements, with an average thorium oxide concentration of 76 ppm, and an average uranium oxide concentration of 8 ppm.

Table 1 - Summary of diamond core drilling from Fall 2023 campaign

DHID	Easting*	Northing*	Elevation (m)	Elevation (ft)	Total Depth (m)	Total Depth (ft)	Azimuth/ Dip	Samples**
HC23-OM026	475303.92	4635160.13	1748.17	5735.45	80	262.47	vertical	58
HC23-OM027	475493.66	4635173.59	1735.72	5694.61	80	262.47	vertical	60
HC23-OM028	475476.43	4635315.94	1736.14	5696.00	302	990.81	vertical	239
HC23-OM030	475802.81	4635045376	1724.52	5657.88	80	262.47	vertical	65
HC23-OM032	475690.08	4635126.55	1727.61	5668.01	76.5	250.98	vertical	57
HC23-OM034	475624.71	4635368.70	1731.95	5682.26	80	262.47	vertical	60
HC23-OM037	475570.89	4635490.21	1739.68	5707.62	80	262.47	vertical	61
HC23-OM039	475365.10	4635449.80	1740.18	5709.24	80	262.47	vertical	57
					858.5	**2,817**		**657**

* UTM NAD 1983, Zone 13
**Including internal QA/QC

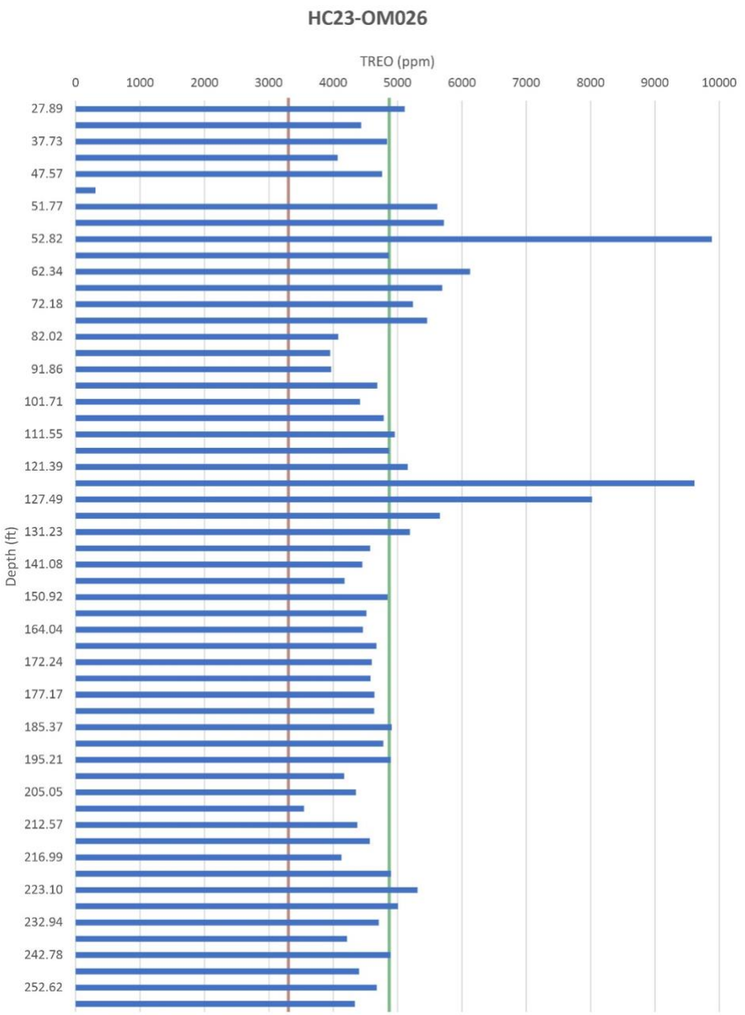
These assay results at the Overton Mountain resource indicate a significant resource upgrade which is expected to be announced to the market in the coming months. Furthermore, the impressive intercepts from deep hole HC23-OM028 reveal high grade zones which continue to 302 m (990.81 ft) depth. These assays additionally reveal that the deposit

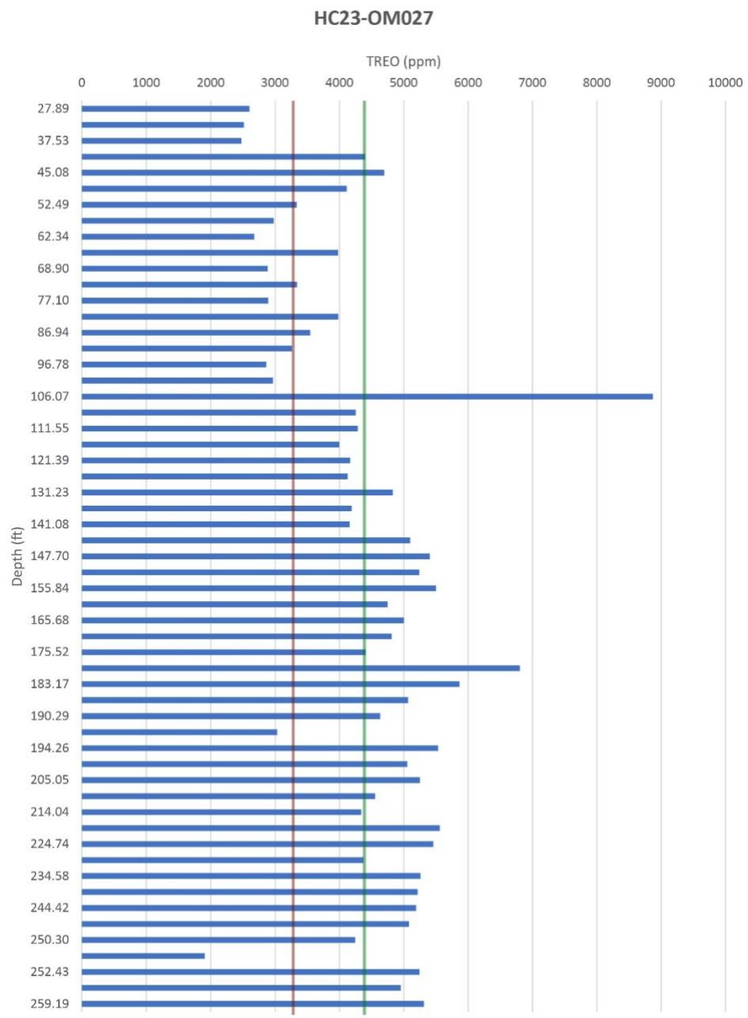
remains open at depth. Histogram-logs of TREO for each hole can be observed in Figure 2 through Figure 4 below. Figure 5 shows a fence diagram of all the 2023 core holes.

*Table 2 - Summary of assays from diamond core drilling – Fall 2023 Campaign***

DHID	Sample Count	Total Thickness (m)	TREO**			MREO			LREO			HREO		
			Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
HC23-OM026	55	71.42	4972	3545	9881	1319	78	2799	4426	240	8979	463	66	902
HC23-OM027	57	71.50	4396	1906	8867	1173	487	2427	3961	1686	8029	434	220	838
HC23-OM028	217	287.63	5088	1513	8067	1311	51	2153	4455	154	7502	433	29	641
HC23-OM030	62	77.05	4282	2393	6138	1145	617	1672	3787	2047	5594	495	295	631
HC23-OM032	52	72.99	3834	1762	5078	1018	43	1383	3334	104	4649	384	48	497
HC23-OM034	56	76.8	4204	3241	5657	1092	24	1530	3766	62	5184	367	27	473
HC23-OM037	57	75.15	4082	1616	6684	1059	1	1769	3648	6	6195	371	180	515
HC23-OM039	54	74.35	4252	1906	9189	1107	318	2515	3774	1081	8449	423	163	740
Grand Total	610	806.89	4575	1513	9881	1196	1	2799	4047	6	8979	425	27	902

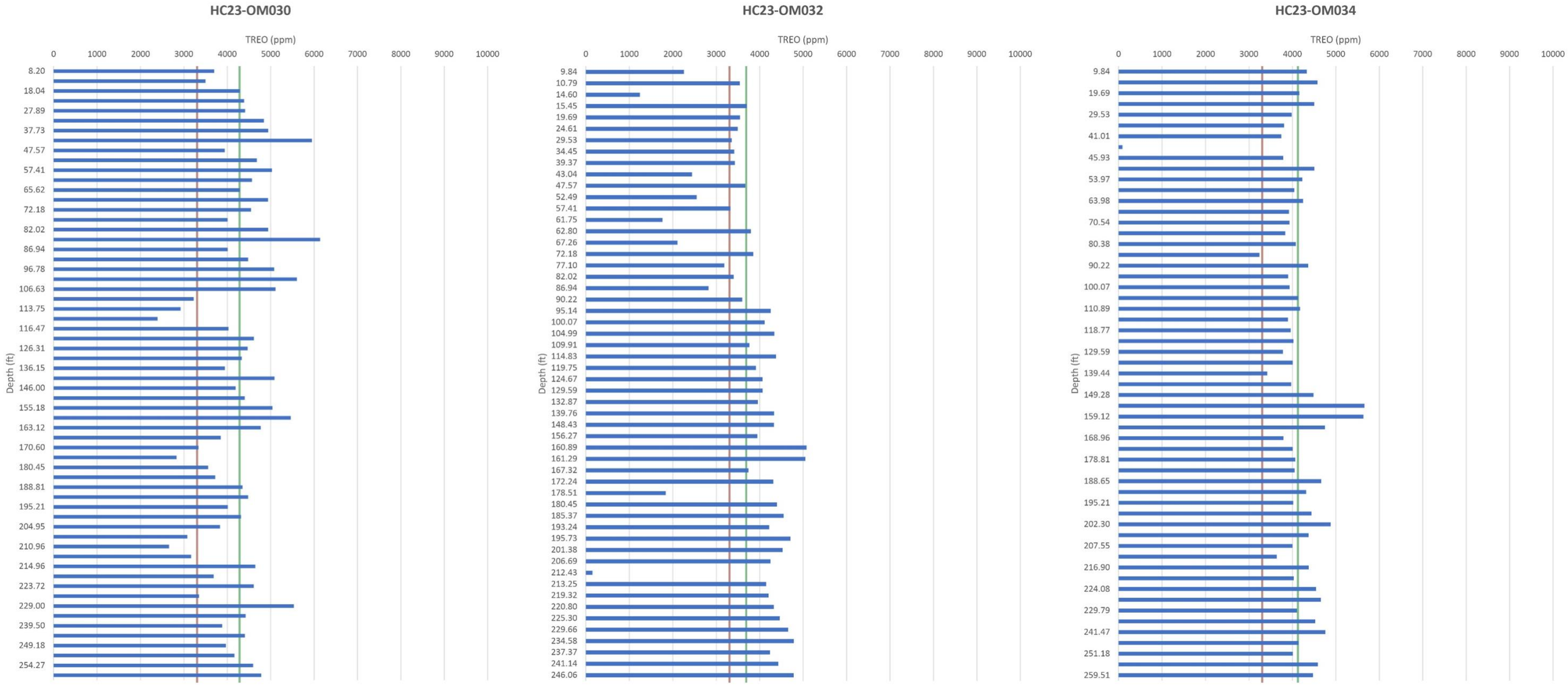
TREO: Total rare earth oxide, MREO: Magnetic rare earth oxide, LREO: Light rare earth oxide, HREO: Heavy rare earth oxide
**TREO 1,500 ppm cut-off





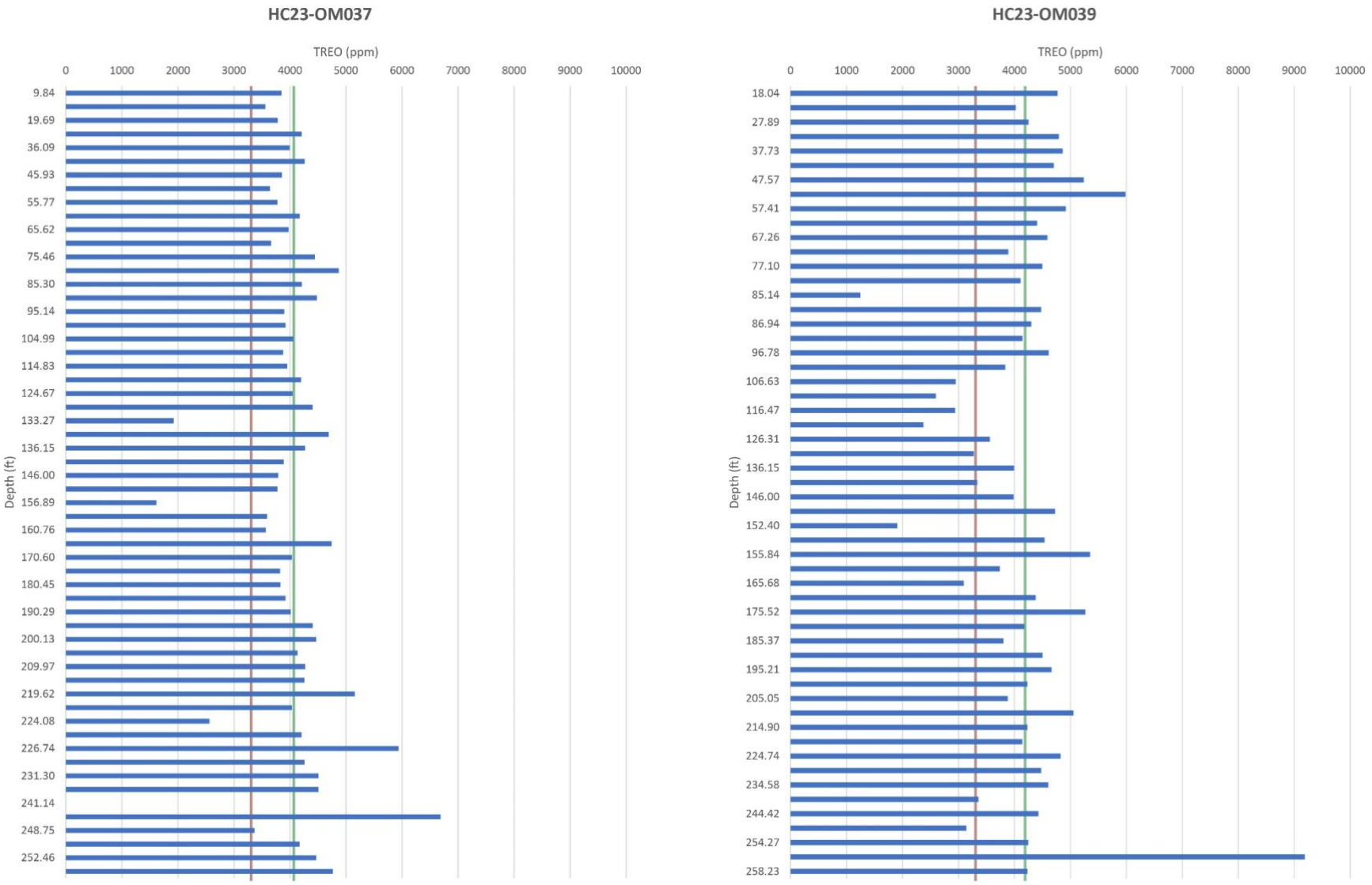
*Red line represents previous resource estimate deposit average (3,309 ppm TREO); green line represents average from entire hole

Figure 3 – Histogram logs of TREO vs. depth for HC23-OM030, HC23-OM032, and HC23-OM034



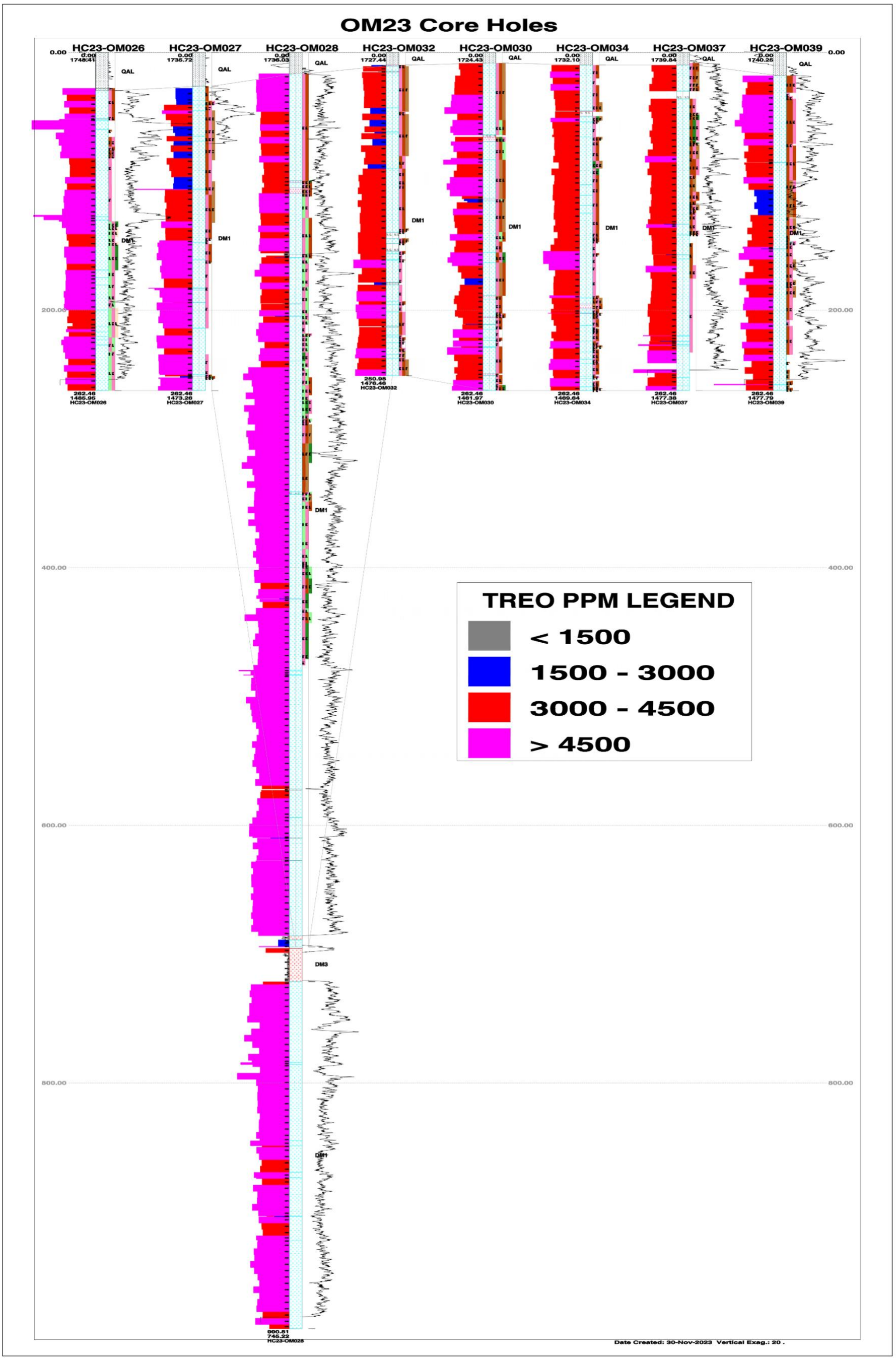
*Red line represents previous resource estimate deposit average (3,309 ppm TREO); green line represents average from entire hole

Figure 4 – Histogram logs of TREO vs. depth for HC23-OM037, and HC23-OM039



*Red line represents previous resource estimate deposit average (3,309 ppm TREO); green line represents average from entire hole

Figure 5 – Fence Diagram of 2023 Core Holes with Assays and Gamma Logs



This announcement has been approved by the CEO of American Rare Earths

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Competent Persons Statement: The information in this document is based on information compiled by personnel under the direction of Mr. Dwight Kinnes. This work was reviewed and approved for release by Mr Dwight Kinnes (Society of Mining Engineers #4063295RM) who is employed by American Rare Earths and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 JORC Code. Mr Kinnes consents to the inclusion in the report of the matters based upon the information in the form and context in which it appears.

About American Rare Earths Limited:
American Rare Earths (ASX: ARR | ADRs - OTCQX: AMRRY | Common Shares - OTCQB: ARRNF) owns the Halleck Creek, WY and La Paz, AZ rare earth deposits which have the potential to become the largest and most sustainable rare earth projects in North America. American Rare Earths is developing environmentally friendly and cost-effective extraction and processing methods to meet the rapidly increasing demand for resources essential to the clean energy transition and US national security. The Company continues to evaluate other exploration opportunities and is collaborating with US Government-supported R&D to develop efficient processing and separation techniques of rare earth elements to help ensure a renewable future.

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Appendix A – JORC Table 1

JORC Code, 2012 Edition – Table 1 Halleck Creek Exploration Area		
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 (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.*	ARR drilled 15 reverse circulation (RC) holes and eight HQ-sized diamond core holes between September and October 2023. All RC holes were 102 meters (334.65 feet) deep, with seven core holes at 80 meters (262.47 feet) and one deep core hole at 302 m (990.81 feet). RC chip samples were collected at a 1.5-meter (4.92 ft) continuous interval via rotary splitter. Rock core was divided into sample lengths of 1.5 m (4.92 feet) long and at key lithological breaks. ARR drilled 38 reverse circulation (RC) holes across the Halleck Creek Resource Claim area between October and December 2022. All holes were approximately 150 meters (492.13 feet) deep, with the exception of HC22-RM015 which went to a depth of 175.5 meters (576 feet). Chip samples were collected at 1.5-meter continuous intervals via rotary splitter. In March and April 2022, ARR drilled nine HQ-sized core holes across the Halleck Creek Resource claim area. All holes were approximately 350 ft with the exception of one hole which was terminated at 194 ft. Total drilled length of 3,008 ft (917 m). Rock core was divided into sample lengths of 5 ft (1.52 m) long and at key lithological breaks.

		A total of 734 surface rock samples exist in the Halleck Creek database. Surface rock samples collected by ARR are logged, photographed and located using handheld GPS units. As part of reverse circulation (RC) and diamond core exploration drilling at Halleck Creek, ARR collected XRF readings on RC chip and core samples. Elements included in XRF measurements include: Lanthanum, Cerium, Neodymium, and Praseodymium. ARR collected three XRF readings on each sample, then averaged the readings. Readings are performed at 20-meter intervals down each drill hole. These values are qualitative in nature and provide only rough indications of grade.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	For the April 2022 core drilling program, core recoveries and RQDs were calculated by ARR field geologists. The same was done for the Fall 2023 program with the addition of detailed geotechnical logging.
	Aspects of the determination of mineralisation that are Material to the Public Report.	The Red Mountain Pluton (RMP) of the Halleck Creek Rare Earths Project is a distinctly layered monzonitic to syenitic body which exhibits significant and widespread REE enrichment. Enrichment is dependent on allanite abundance, a sorosilicate of the epidote group. Allanite occurs in all three units of the RMP, the clinopyroxene quartz monzonite, the biotite-hornblende quartz syenite, and the fayalite monzonite, in variable abundances.
	In cases where 'industry standard' work has been done, this would be relatively simple (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information.	Reverse circulation rock chip samples were collected at 1.5-meter continuous intervals via rotary splitter. For each interval chip samples were placed in labelled sample bags weighing between 1-2kg. A 0.5-1kg sample was collected for reserve analysis and logging. Chip samples were also placed into chip trays with 20 slots for logging and XRF analysis. Rock core samples 5 ft (1.52 m) long are fillet cut. The fillet cuts are being pulverised and sampled for 60 elements including rare earth elements using ICP-MS and industry standards. A select number of

		samples are additionally being assayed for whole rock geochemistry. American Assay Labs in Sparks, NV is performed the analyses for the Spring 2022 program, and ALS Laboratories in BC, Canada.
		RC chip samples were sent to ALS labs in Twin Falls, ID for preparation and forwarded on to ALS labs in Vancouver, BC for ICP-MS analysis. ALS analysis: ME-MS81. Core samples were first sent to ALS in Reno, NV, for cutting and preparation, and also sent to Vancouver, BC for the same suite of test work.
Drilling techniques	*Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or another type, whether the core is oriented and if so, by what method, etc.).*	A Schraam T-450 reverse circulation drill rig was used to drill all 15 RC drill holes from the Fall 2023 program. A continuous rotary sample splitter was used to collect the RC samples at 1.5m intervals. Total drilled depth of 3,011.81 ft (1,530 m). Core, fall 2023: HQ, diamond tip, 5 ft (1.52 m) runs, unoriented. Total drilled depth of 2,816.60 ft (858.5 m).
Drill sample recovery	*Method of recording and assessing core and chip sample recoveries and results assessed.*	A continuous rotary sample splitter was used to collect the RC samples at 1.5m intervals. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 ft (1.52 m). Recoveries were calculated for each core run. Each rock sample was described, photographed with its location determined using handheld GPS.
	Measures are taken to maximise sample recovery and ensure the representative nature of the samples.	Reverse circulation rock chip samples were collected at 1.5-meter continuous intervals via rotary splitter. For each interval chip samples were placed in labelled sample bags weighing between 1-2kg. A 0.5-1kg sample was collected for reserve analysis and logging. Chip samples were also placed into chip trays with 20 slots for logging and XRF analysis.

		All core and associated samples were immediately placed in core boxes.
	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.	Recoveries were very high in competent rock. No loss or gain of grade or grade bias related to recovery
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.*	All RC samples were visually logged by ARR geologists from chip trays using 10x binocular microscopes. Samples at 25m intervals were photos and analysed using an Olympus Vanta handheld XRF analyser in triplicate. Lanthanum, Cerium, Neodymium, and Praseodymium were analysed via XRF. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 feet (1.52m). ARR geologists calculated recoveries for each core run. ARR geologists logged lithology, various types of alteration and mineralisation, fractures, fracture conditions, and RQD.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.	RC samples and logging is quantitative in nature. Chip samples are stored in secure sample trays. Chip samples were photographed and 25m intervals. Core logging is quantitative in nature. All core was photographed.
	The total length and percentage of the relevant intersections logged.	All RC samples were visually logged by ARR geologists for each 1.5-meter continuous sample. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 feet (1.52m). ARR geologists calculated recoveries for each core run. ARR geologists logged lithology, various types of alteration and mineralisation, fractures, fracture conditions, and RQD.

Sub-sampling techniques and sample preparation	*If core, whether cut or sawn and whether quarter, half or all core taken.*	RC chip samples were not cut. Drill core was fillet cut by ALS Laboratories with approximately 1/2 of the core used for assay. The remaining core material will be kept in reserve by ALS until sent for future metallurgical testwork.
	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	Samples varied between wet and dry. The course crystalline nature of the deposit minimizes adverse effects of wet samples. Samples were rotary split during drilling and sample collection. ALS labs dried wet samples using their DRY-21 drying process.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	RC samples were taken from pulverize splits of up to 250 g to better than 85 % passing minus 75 microns. All core samples were dry. Sample preparation: 1kg samples split to 250g for pulverising to -75 microns. Sample analysis: 0.5g charge assayed by ICP-MS technique. Both sampling methods are considered appropriate for the type of material collected and are considered industry standard.
	Quality control procedures adopted for all sub-sampling stages to maximise the representivity of samples.	ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. Each CRM blank, REE standard, and duplicate were rotated into both the RC and core sampling process every 20 samples.
	Measures are taken to ensure that the sampling is representative of the in situ material collected, including, for instance, results for field duplicate/second-half sampling.	RC samples were collected using a continuous feed rotary split sampler. Fillet cuts along the entire length of all core are representative of the in-situ material.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	Allanite is generally well distributed across the core and the sample sizes are representative of the fine grain size of the Allanite.

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.*	ALS uses a 5-acid digestion and 32 elements by lithium borate fusion and ICP-MS (ME-MS81). For quantitative results of all elements, including those encapsulated in resistive minerals. These assays include all rare earth elements. AAL Labs uses 5-acid digestion and 48 element analysis including REE reported in ppm using method REE-5AO48 and whole-rock geochemical XRF analysis using method X-LIB15.
	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.	Samples at 25m intervals were photographed and analysed using an Olympus Vanta handheld XRF analyser in triplicate. Lanthanum, Cerium, Neodymium, and Praseodymium were analysed. Simple average values of three XRF readings were calculated. Seven of the core holes received ATV/OTV logging as well as slim hole induction which recorded natural gamma and conductivity/resistivity. All geophysical logging was completed by Century Geophysical located in Gillette, WY. All tools were properly calibrated prior to logging.
	Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	For the RC drilling, ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. CRM and Blank samples were inserted alternately at 20 sample intervals. The same was done for the core drilling completed Fall 2023. ALS Laboratories will additionally incorporate their own QA/QC procedure. For core drilling completed Spring 2022, ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. Blank samples were added one for every 10 core samples, REE samples were added one for every 25 core samples, and Duplicate samples were added one per every 25 core samples. Internal laboratory blanks and standards will additionally be inserted during analysis.

Verification of sampling and assaying	*The verification of significant intersections by either independent or alternative company personnel.*	RC chip samples have not yet been verified by independent personnel. Consulting company personnel have observed the assayed core samples. Company personnel sampled the entire length of each hole.
	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.	Data entry was performed by ARR personnel and checked by ARR geologists. All field logs were scanned and uploaded to company file servers. All photographs of the core were also uploaded to the file server daily. Drilling data will be imported into the DHDB drill hole database. All scanned documents are cross-referenced and directly available from the database. Assay data from the RC samples was imported into the database directly from electronic spreadsheets sent to ARR from ALS. Core assay data was received electronically from AAL labs. These raw data as elements reported ppm were imported into the database with no adjustments.
	Discuss any adjustment to assay data.	Assay data is stored in the database in elemental form. Reporting of oxide values are calculated in the database using the molar mass of the element and the oxide.
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.*	RC drill holes have been located using handheld GPS units. Final surveys of hole locations will be performed by professional surveyors. Drill hole location is based on GPS coordinates +/- 10 ft (3 m) accuracy.
	Specification of the grid system used.	The grid system used to compile data was NAD83 Zone 13N.
	Quality and adequacy of topographic control.	Topography control is +/- 10 ft (3 m).

Data spacing and distribution	*Data spacing for reporting of Exploration Results.*	The Fall 2023 program included drill hole spacing at 100 m resolution. For previous programs, holes were both randomly spaced and localised clustering of drill holes.
	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.	Data from the Fall 2023 program will be at a high enough resolution to provide a measured resource at the Overton Mountain project area.
	Whether sample compositing has been applied.	Each sample is the result of assaying a 5 ft interval of core or 1.5 m RC interval.
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.*	Mineralization at Halleck Creek is a function of fractional crystallization of allanite in syenitic rocks of the Red Mountain Pluton. Mineralization is not structurally controlled and exploration drilling to date does not reveal any preferential mineralization related to geologic structures. Therefore, orientation of drilling does not bias sampling.
	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.	Orientation of drilling does not bias sampling.
Sample security	*The measures are taken to ensure sample security.*	All RC chip samples were collected from the drill rigs and stored in a secured, locked facility. Sample pallets were shipped weekly, by bonded carrier, directly to ALS labs in Twin Falls, ID. Chains of custody were maintained at all times. 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 ALS Laboratories. Chains of custody were maintained at all times. All rock samples were in the direct control of company geologists until dispatched to American Assay Labs.

Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	No external audits or reviews have been conducted to date. However, sampling techniques are consistent with industry standards.

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.*	ARR acquired 5 unpatented federal lode claims on BLM US Federal Land totalling 71.6 acres (29 has) from Zenith Minerals, Ltd (Zenith). in 2021. 67 unpatented federal lode claims were staked by ARR that totalled 1193.3 acres (482 ha) in summer 2021. ARR staked 182 unpatented federal lode claims in March 2022 covering an area of approximately 3,088 acres (1,250 ha). ARR staked 118 unpatented federal lode claims in November 2022 covering an area of approximately 2,113 acres (855 ha). As of December 31, 2022, ARR controlled 367 unpatented federal lode claims and 4 Wyoming State mineral licenses covering 8,165 acres (3,304 ha).
	The security of the tenure held at the time of reporting and any known impediments to obtaining a licence to operate in the area.	No impediments to holding the claims exist. To maintain the claims an annual holding fee of $165/claim is payable to the BLM. To maintain the State leases minimum rental payments of $1/acre for 1-5 years; $2/acre for 6-10 years; and $3/acre if held for 10 years or longer.
Exploration done by other parties	*Acknowledgment and appraisal of exploration by other parties.*	Prior to sampling by WIM on behalf of Blackfire Minerals and Zenith there was no previous sampling by any other groups within the ARR claim and Wyoming State Lease blocks.
Geology	*Deposit type, geological setting and style of mineralisation.*	The REE's occur within Allanite which occurs as a variable constituent of the Red Mountain Pluton. The occurrence can be characterised as a disseminated type rare earth deposit.
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:*	For the Fall 2023 program, FTE DRILLING USA INC. of Mount Uniacke, Nova Scotia used a Schraam T-450 track mounted rig to drill 15 reverse circulation drill holes. Drill hole depths for 37 holes was 102 m. FTE also utilized an enclosed Versa-Drilling diamond core rig to drill eight HQ-sized core holes.

		For the Fall 2022 program, FTE DRILLING USA INC. of Mount Uniacke, Nova Scotia used a Schraam T-450 track mounted rig to drill 37 reverse circulation drill holes. Drill hole depths for 37 holes was 150m and one hole at 175.5m Authentic Drilling from Kiowa, Colorado used both a track mounted and ATV mounted core rig to drill nine HQ diameter core holes. From March to April 2022, ARR drilled nine core holes across the Halleck Creek claim area. Drill holes ranged in depth from 194 to 352.5 ft with a total drilled length of 3,008 ft (917 m).
	easting and northing of the drill hole collar	Drilling information from the Fall 2022 drilling campaign is presented in detail in the "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project", March 2023. Drilling information from the Fall 2023 campaign will be published in an updated, upcoming report.
	elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar	
	dip and azimuth of the hole	
	downhole 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.	No Drilling data has been excluded.
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.*	Average Grade values were cut at minimum of TREO 1,500 ppm.
	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.	Assays are representative of each 5 ft (1.52 m) sample interval.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalents used.

Relationship between mineralisation widths and intercept lengths	*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.* *If it is unknown and only the downhole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').*	Allanite mineralization observed at Halleck Creek occurs uniformly throughout the CQM and BHS rocks of within the Red Mountain Pluton. Therefore, the geometry of mineralisation does not vary with drill hole orientation or angle within homogeneous rock types.
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.*	Location information is presented in detail in the "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project", March 2023
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 practised to avoid misleading reporting of Exploration Results.*	The latest exploration results reported in "Mapping and Surface Sampling Summary at the Halleck Creek Project Area: April 2022". All relevant information for this section can be found in Table 1 in the "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project", March 2023
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.*	In hand specimen this rock is a red colored, hard and dense granite with areas of localised fracturing. The rock shows significant iron staining and deep weathering. Microscopic description: In hand specimen the samples represent light colored, fairly coarse-grained granitic rock composed of visible secondary iron oxide, amphibole, opaques, clear quartz and pink to white colored feldspar. All of the specimens show moderate to strong weathering and fracturing. Allanite content is variable from trace to 2%. Rare Earths are found within the Allanite. Historical metallurgical testing consisted of concentrating the Allanite by both gravity and magnetic separation. The current program employs sequential high gradient magnetic separation and flotation to produce a concentrate suitable for downstream rare earth elements extraction.

Further work	*The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).*	Further drilling is planned to increase the area of the project, and to increase confidence levels of resources. Geological mapping and surface sampling will also be performed to define and prioritize drilling targets.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Additional drilling is planned in new exploration areas and to increase resource confidence levels.

Section 3 Estimation and Reporting of Mineral Resources		
(Criteria listed in the preceding section also apply to this section.)		
Criteria	***JORC Code explanation***	**Commentary**
Database integrity	*Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.* *Data validation procedures used.*	Drill hole data header, lithologic data checked by field geologists and by visual examination on maps and drill hole striplogs. Assay and QA/QC data were imported into the database directly from electronic spreadsheets provide by laboratories. Histograms graphical logs were also prepared and reviewed by ARR geologists.
Site visits	*Comment on any site visits undertaken by the Competent Person and the outcome of those visits.* *If no site visits have been undertaken indicate why this is the case.*	Mr. Dwight Kinnes visited the Halleck Creek site during the RC and core drilling projects. Mr. Jim Guilinger has not visited the site during the RC and core drilling projects. ARR will facilitate a site visit during the 2023 calendar year. Mr. Alf Gliman has not visited the site during the RC and core drilling projects. Mr. Gilman resides in Perth, Western Australia. Site visits to the project have so far been logistically difficult and very expensive.
Geological interpretation	*Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.* *Nature of the data used and of any assumptions made.* *The effect, if any, of alternative interpretations on Mineral Resource estimation.* *The use of geology in guiding and controlling Mineral Resource estimation.* *The factors affecting continuity both of grade and geology.*	The Halleck Creek RE deposit is contained with rocks of the Red Mountain Pluton. These rocks consist primarily of clinopyroxene quartz monzonite (CQM), and biotite hornblende syenite (BHS). These two lithologies are difficult to visually distinguish. However, the concentration of rare earth elements is observable between lithologies. Rocks of the Elmers Rock Greenstone Belt (ERGB) and the Sybille (Syb) intrusion are easily distinguishable from rocks of the RMP. These rock units are essentially barren of rare earth elements. Therefore, the confidence in discerning rocks of the RMP from is high. The extent of the RMP relative to other units was outlined into modelling domains used for resource estimates. The distribution of allanite throughout CQM and BHS rocks of the RMP is generally uniform and is not structurally controlled. Potassic

		alternation observed does not appear to affect the grade of allanite throughout the deposit.
Dimensions	*The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.*	The Halleck Creek REE project currently contains two primary resource areas: the Red Mountain area and the Overton Mountain area. Resources also extend into the Bluegrass resource area. The Red Mountain resource area is bounded to the west by the ERGB, and to the south by the Syb. Further exploration is needed to determine the extent to the north and two the east. RC samples with TREO grades exceeding 1,500 ppm occurred at the base of 37 drill holes in the Red Mountain resource area extending down to depths of 150m with one hole extending to a depth of 175.5m. Therefore, ARR considers the Red Mountain resource area to be open at depth. The Overton Mountain resource area is bounded to the west by mineral claims, and therefore, remains open to the west. Lower grade BHS rocks occur at the northern end of Overton Mountain. Drilling data to the east and south indicate that the Overton Mountain resource area remains open across Bluegrass Creek. Like the Red Mountain drilling, RC samples at Overton Mountain contained TREO assay values exceeding 3,500 ppm to depths of 150m in 18 holes. Therefore, ARR considers the Overton Mountain resource area to be open at depth.
Estimation and modelling techniques	*The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.*	Relevant information is presented in detail in the "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project", March 2023

	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data. *The assumptions made regarding recovery of by-products.* *Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).* *In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.* *Any assumptions behind modelling of selective mining units.* *Any assumptions about correlation between variables.* *Description of how the geological interpretation was used to control the resource estimates.* *Discussion of basis for using or not using grade cutting or capping.* *The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.*	
Moisture	*Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.*	Tonnages are based on dry basis.
Cut-off parameters	*The basis of the adopted cut-off grade(s) or quality parameters applied.*	Currently a subjective cut-off grade of 1,500 ppm TREO was applied to reported resource estimates. Ongoing metallurgical testwork and upcoming conceptual planning will provide input to determine a net smelter return.
Mining factors or assumptions	*Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider*	No mine plan or design has been prepared at this stage however the shallow nature of the deposit assumes extraction by open pit mining methods.

	potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.	
Metallurgical factors or assumptions	*The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.*	ARR is performing preliminary metallurgical test work at Halleck Creek.
Environmental factors or assumptions	*Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.*	ARR is in the process of outlining environmental, social, and community impacts regarding the potential development of the project. These impacts are being included in conceptual designs of all facets of the project.
Bulk density	*Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.* *The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc),*	An average specific gravity of 2.70 represents the in-place ore material at Halleck Creek based on hydrostatic testing.

	moisture and differences between rock and alteration zones within the deposit. *Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.*	
Classification	*The basis for the classification of the Mineral Resources into varying confidence categories.* *Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).* *Whether the result appropriately reflects the Competent Person's view of the deposit.*	The basis of classification of mineral resources was based on geostatistical analysis of variograms of rare earth elements. The variographic results showed a resource boundary based on 90% of sill range of approximately 325-meters is applicable at Halleck Creek. These results do reflect the CP's view of the project.
Audits or reviews	*The results of any audits or reviews of Mineral Resource estimates.*	There have not been any audits of mineral resource estimates.
Discussion of relative accuracy/ confidence	*Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.* *The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.* *These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.*	Reported resources for Halleck Creek are in-place global estimates of tonnage and rare earth grade. The basis of classification of mineral resources was based on geostatistical analysis of variograms of rare earth elements. Within the confines of the available data resource estimates should be accurate for a maiden resource estimate.

Appendix B – Detailed assay data from diamond core holes

*Units in ppm

DHID	Sample ID	From (m)	To (m)	TREO	HREO	MREO	LREO
HC23-OM026	M033574	8.5	10	5111	496	1385	4615
HC23-OM026	M033575	10	11.5	4435	425	1220	4010
HC23-OM026	M033576	11.5	13	4838	480	1309	4358
HC23-OM026	M033577	13	14.5	4071	409	1111	3662
HC23-OM026	M033578	14.5	15.7	4761	466	1315	4295
HC23-OM026	M033579	15.7	15.78	306	66	78	240
HC23-OM026	M033580	15.78	16	5617	581	1542	5036
HC23-OM026	M033581	16	16.1	5720	540	1583	5180
HC23-OM026	M033582	16.1	18.2	9881	902	2799	8979
HC23-OM026	M033583	18.2	19	4864	468	1345	4396
HC23-OM026	M033584	19	20.5	6128	574	1728	5554
HC23-OM026	M033585	20.5	22	5693	538	1563	5155
HC23-OM026	M033586	22	23.5	5238	495	1435	4743
HC23-OM026	M033587	23.5	25	5460	521	1488	4939
HC23-OM026	M033588	25	26.5	4077	393	1103	3684
HC23-OM026	M033589	26.5	28	3952	382	1082	3570
HC23-OM026	M033590	28	29.5	3968	372	1069	3596
HC23-OM026	M033591	29.5	31	4687	421	1282	4266
HC23-OM026	M033592	31	32.5	4416	409	1201	4007
HC23-OM026	M033594	32.5	34	4785	430	1309	4355
HC23-OM026	M033595	34	35.5	4958	443	1349	4515
HC23-OM026	M033596	35.5	37	4866	448	1323	4418
HC23-OM026	M033597	37	38.5	5158	456	1401	4702
HC23-OM026	M033598	38.5	38.86	9614	786	2689	8828
HC23-OM026	M033599	38.86	39.64	8020	694	2243	7326
HC23-OM026	M033600	39.64	40	5658	533	1548	5125
HC23-OM026	M033601	40	41.5	5194	476	1411	4718
HC23-OM026	M033602	41.5	43	4575	429	1237	4146
HC23-OM026	M033603	43	44.5	4454	413	1209	4041
HC23-OM026	M033604	44.5	46	4175	423	1134	3752
HC23-OM026	M033605	46	48.5	4845	466	1311	4379
HC23-OM026	M033606	48.5	50	4517	436	1222	4081
HC23-OM026	M033607	50	51.52	4462	406	1208	4056
HC23-OM026	M033608	51.52	52.5	4672	409	1264	4263
HC23-OM026	M033609	52.5	53.24	4599	436	1206	4163
HC23-OM026	M033610	53.24	54	4579	430	1196	4149
HC23-OM026	M033611	54	55.05	4640	451	1220	4189
HC23-OM026	M033612	55.05	56.5	4637	456	1207	4181
HC23-OM026	M033613	56.5	58	4910	474	1284	4436
HC23-OM026	M033615	58	59.5	4776	445	1242	4331

HC23-OM026	M033616	59.5	60.93	4896	469	1271	4427
HC23-OM026	M033617	60.93	62.5	4170	427	1090	3743
HC23-OM026	M033618	62.5	64	4353	448	1169	3905
HC23-OM026	M033619	64	64.79	3545	348	952	3197
HC23-OM026	M033620	64.79	65.5	4373	448	1180	3925
HC23-OM026	M033621	65.5	66.14	4568	444	1199	4124
HC23-OM026	M033622	66.14	67.26	4127	410	1115	3717
HC23-OM026	M033623	67.26	68	4899	440	1247	4459
HC23-OM026	M033624	68	69.2	5309	517	1375	4792
HC23-OM026	M033625	69.2	71	5006	470	1295	4536
HC23-OM026	M033626	71	72.5	4708	450	1212	4258
HC23-OM026	M033627	72.5	74	4213	425	1113	3788
HC23-OM026	M033628	74	75.5	4891	460	1264	4431
HC23-OM026	M033629	75.5	77	4401	420	1167	3981
HC23-OM026	M033630	77	78.5	4676	453	1215	4223
HC23-OM026	M033631	78.5	80	4337	426	1144	3911
HC23-OM027	M033632	8.5	11	2604	467	713	2137
HC23-OM027	M033633	11	11.44	2517	440	713	2077
HC23-OM027	M033634	11.44	12.4	2477	315	671	2162
HC23-OM027	M033635	12.4	13.74	4396	553	1215	3843
HC23-OM027	M033637	13.74	14.5	4698	554	1275	4144
HC23-OM027	M033638	14.5	16	4112	442	1094	3670
HC23-OM027	M033639	16	17.5	3336	404	900	2932
HC23-OM027	M033640	17.5	19	2977	405	832	2572
HC23-OM027	M033641	19	19.8	2678	355	722	2323
HC23-OM027	M033642	19.8	21	3978	545	1071	3433
HC23-OM027	M033643	21	22	2888	458	822	2430
HC23-OM027	M033644	22	23.5	3343	490	930	2853
HC23-OM027	M033645	23.5	25	2892	401	804	2491
HC23-OM027	M033646	25	26.5	3984	458	1096	3526
HC23-OM027	M033647	26.5	28	3545	378	965	3167
HC23-OM027	M033648	28	29.5	3261	401	883	2860
HC23-OM027	M033649	29.5	31	2864	342	762	2522
HC23-OM027	M033650	31	32.33	2967	332	800	2635
HC23-OM027	M033651	32.33	32.5	8867	838	2427	8029
HC23-OM027	M033652	32.5	34	4253	423	1133	3830
HC23-OM027	M033653	34	35.5	4285	394	1135	3891
HC23-OM027	M033654	35.5	37	3999	382	1054	3617
HC23-OM027	M033655	37	38.5	4168	413	1097	3755
HC23-OM027	M033656	38.5	40	4128	428	1079	3700
HC23-OM027	M033658	40	41.5	4829	451	1261	4378
HC23-OM027	M033659	41.5	43	4189	370	1107	3819
HC23-OM027	M033660	43	44.5	4159	390	1102	3769
HC23-OM027	M033661	44.5	45.02	5098	461	1355	4637

HC23-OM027	M033662	45.02	46	5404	495	1438	4909
HC23-OM027	M033663	46	47.5	5241	446	1398	4795
HC23-OM027	M033664	47.5	49.1	5501	462	1462	5039
HC23-OM027	M033665	49.1	50.5	4748	423	1253	4325
HC23-OM027	M033666	50.5	52	5001	451	1324	4550
HC23-OM027	M033667	52	53.5	4812	437	1263	4375
HC23-OM027	M033668	53.5	55.73	4409	389	1165	4020
HC23-OM027	M033669	55.73	55.83	6802	561	1820	6241
HC23-OM027	M033670	55.83	56.21	5866	483	1549	5383
HC23-OM027	M033671	56.21	58	5068	432	1323	4636
HC23-OM027	M033672	58	59.14	4635	385	1214	4250
HC23-OM027	M033673	59.14	59.21	3034	276	793	2758
HC23-OM027	M033674	59.21	61	5533	445	1467	5088
HC23-OM027	M033675	61	62.5	5056	441	1351	4615
HC23-OM027	M033676	62.5	64	5251	450	1392	4801
HC23-OM027	M033677	64	65.24	4554	404	1216	4150
HC23-OM027	M033679	65.24	67	4339	401	1146	3938
HC23-OM027	M033680	67	68.5	5558	459	1474	5099
HC23-OM027	M033681	68.5	70	5460	442	1439	5018
HC23-OM027	M033682	70	71.5	4375	398	1158	3977
HC23-OM027	M033683	71.5	73	5260	449	1399	4811
HC23-OM027	M033684	73	74.5	5215	446	1380	4769
HC23-OM027	M033685	74.5	76	5193	451	1377	4742
HC23-OM027	M033686	76	76.29	5080	441	1342	4639
HC23-OM027	M033687	76.29	76.6	4245	394	1122	3851
HC23-OM027	M033688	76.6	76.94	1906	220	487	1686
HC23-OM027	M033689	76.94	77.19	5244	465	1378	4779
HC23-OM027	M033690	77.19	79	4952	430	1300	4522
HC23-OM027	M033691	79	80	5313	494	1407	4819
HC23-OM028	M033692	5	6.5	4727	460	1268	4267
HC23-OM028	M033693	6.5	8	5090	498	1361	4592
HC23-OM028	M033694	8	9.5	5138	500	1370	4638
HC23-OM028	M033695	9.5	11	5023	503	1342	4520
HC23-OM028	M033696	11	12.5	4998	499	1327	4499
HC23-OM028	M033697	12.5	14	5084	491	1347	4593
HC23-OM028	M033698	14	15.5	4358	462	1158	3896
HC23-OM028	M033700	15.5	17	4456	437	1178	4019
HC23-OM028	M033701	17	18.5	4504	437	1194	4067
HC23-OM028	M033702	18.5	20	4395	450	1169	3945
HC23-OM028	M033703	20	21.5	4615	459	1217	4156
HC23-OM028	M033704	21.5	23	4384	434	1156	3950
HC23-OM028	M033705	23	24.5	4287	393	1132	3894
HC23-OM028	M033706	24.5	26	4647	476	1253	4171
HC23-OM028	M033707	26	27.5	3981	403	1069	3578

HC23-OM028	M033708	27.5	29	3880	361	1038	3519
HC23-OM028	M033709	29	30.35	4181	430	1128	3751
HC23-OM028	M033710	30.35	30.81	4145	378	1090	3767
HC23-OM028	M033711	30.81	32	3894	398	1042	3496
HC23-OM028	M033712	32	33.35	4206	416	1126	3790
HC23-OM028	M033713	33.35	33.5	4711	424	1273	4287
HC23-OM028	M033714	33.5	35	4682	499	1272	4183
HC23-OM028	M033715	35	36.5	4677	490	1281	4187
HC23-OM028	M033716	36.5	38	4632	475	1268	4157
HC23-OM028	M033717	38	39.5	4442	432	1187	4010
HC23-OM028	M033718	39.5	41	4360	414	1165	3946
HC23-OM028	M033719	41	42.5	4776	417	1277	4359
HC23-OM028	M033720	42.5	44	4491	463	1222	4028
HC23-OM028	M033722	44	45.5	4577	426	1247	4151
HC23-OM028	M033723	45.5	47	4711	492	1280	4219
HC23-OM028	M033724	47	47.5	4438	463	1204	3975
HC23-OM028	M033725	47.5	48.1	835	129	222	706
HC23-OM028	M033726	48.1	48.47	3556	347	964	3209
HC23-OM028	M033727	48.47	48.5	2231	226	595	2005
HC23-OM028	M033728	48.5	50	4282	427	1153	3855
HC23-OM028	M033729	50	51.5	4590	466	1247	4124
HC23-OM028	M033730	51.5	53	5346	561	1462	4785
HC23-OM028	M033731	53	54.5	4271	417	1133	3854
HC23-OM028	M033732	54.5	56	4513	456	1224	4057
HC23-OM028	M033733	56	57.5	4254	406	1140	3848
HC23-OM028	M033734	57.5	59.37	4443	448	1205	3995
HC23-OM028	M033735	59.37	59.5	1033	113	279	920
HC23-OM028	M033736	59.5	61	4342	412	1166	3930
HC23-OM028	M033737	61	62.38	4638	401	1266	4237
HC23-OM028	M033738	62.38	62.48	2195	215	585	1980
HC23-OM028	M033739	62.48	64	4023	374	1089	3649
HC23-OM028	M033740	64	65.5	4725	454	1291	4271
HC23-OM028	M033741	65.5	67	5126	518	1403	4608
HC23-OM028	M033743	67	68.5	4815	426	1260	4389
HC23-OM028	M033744	68.5	70	3808	318	988	3490
HC23-OM028	M033745	70	71.5	4509	404	1176	4105
HC23-OM028	M033746	71.5	73	4716	414	1230	4302
HC23-OM028	M033747	73	74.5	4389	402	1146	3987
HC23-OM028	M033748	74.5	76	6341	491	1672	5850
HC23-OM028	M033749	76	77.5	7116	573	1910	6543
HC23-OM028	M033750	77.5	79	5790	484	1545	5306
HC23-OM028	M033751	79	80.5	5610	513	1473	5097
HC23-OM028	M033752	80.5	82	6717	517	1808	6200
HC23-OM028	M033753	82	83.5	5355	441	1414	4914

HC23-OM028	M033754	83.5	85	6979	542	1887	6437
HC23-OM028	M033755	85	86.5	6252	506	1686	5746
HC23-OM028	M033756	86.5	88	6405	518	1725	5887
HC23-OM028	M033757	88	89.5	5295	448	1395	4847
HC23-OM028	M033758	89.5	91	6606	513	1761	6093
HC23-OM028	M033759	91	92.5	6348	493	1720	5855
HC23-OM028	M033760	92.5	94	6242	502	1661	5740
HC23-OM028	M033761	94	95.5	5277	456	1375	4821
HC23-OM028	M033763	95.5	97	6519	554	1701	5965
HC23-OM028	M033764	97	98.5	7338	569	1991	6769
HC23-OM028	M033765	98.5	100	5652	447	1488	5205
HC23-OM028	M033766	100	101.5	5390	429	1423	4961
HC23-OM028	M033767	101.5	103	6547	530	1766	6017
HC23-OM028	M033768	103	104	5230	450	1367	4780
HC23-OM028	M033769	104	106	5397	481	1416	4916
HC23-OM028	M033770	106	107.5	5459	485	1438	4974
HC23-OM028	M033771	107.5	109	6389	535	1677	5854
HC23-OM028	M033772	109	110.5	5360	429	1422	4931
HC23-OM028	M033773	110.5	112	6328	500	1718	5828
HC23-OM028	M033774	112	113.5	5160	438	1352	4722
HC23-OM028	M033775	113.5	115	4648	368	1228	4280
HC23-OM028	M033776	115	116.5	5294	446	1398	4848
HC23-OM028	M033777	116.5	118	5103	434	1333	4669
HC23-OM028	M033778	118	119.5	5573	468	1496	5105
HC23-OM028	M033779	119.5	121	5121	440	1408	4681
HC23-OM028	M033780	121	122.5	4702	416	1304	4286
HC23-OM028	M033781	122.5	124	5439	441	1488	4998
HC23-OM028	M033783	124	125.5	5369	446	1460	4923
HC23-OM028	M033784	125.5	127	4415	407	1236	4008
HC23-OM028	M033785	127	128.5	4782	402	1321	4380
HC23-OM028	M033786	128.5	129.25	5073	430	1409	4643
HC23-OM028	M033787	129.25	129.35	1513	180	436	1333
HC23-OM028	M033788	129.35	130	4560	393	1265	4167
HC23-OM028	M033789	130	131.5	4102	392	1134	3710
HC23-OM028	M033790	131.5	133	5134	440	1446	4694
HC23-OM028	M033791	133	134.5	6901	482	1868	6419
HC23-OM028	M033792	134.5	136	4810	430	1337	4380
HC23-OM028	M033793	136	137.5	4715	411	1323	4304
HC23-OM028	M033794	137.5	139	5264	459	1443	4805
HC23-OM028	M033795	139	140.5	5615	452	1513	5163
HC23-OM028	M033796	140.5	142	4709	421	1308	4288
HC23-OM028	M033797	142	143.5	4808	399	1319	4409
HC23-OM028	M033798	143.5	145	4870	422	1358	4448
HC23-OM028	M033799	145	146.15	5524	445	1508	5079

HC23-OM028	M033800	146.15	146.4	7820	641	2153	7179
HC23-OM028	M033801	146.4	147.25	5967	487	1618	5480
HC23-OM028	M033802	147.25	147.37	7086	621	1938	6465
HC23-OM028	M033804	147.37	148	5515	441	1526	5074
HC23-OM028	M033805	148	149.5	5860	486	1592	5374
HC23-OM028	M033806	149.5	151	5904	476	1625	5428
HC23-OM028	M033807	151	152.5	5215	435	1429	4780
HC23-OM028	M033808	152.5	154	6685	529	1833	6156
HC23-OM028	M033809	154	155.5	6021	500	1641	5521
HC23-OM028	M033810	155.5	157	5822	489	1599	5333
HC23-OM028	M033811	157	158.5	5678	454	1556	5224
HC23-OM028	M033812	158.5	160	5127	472	1452	4655
HC23-OM028	M033813	160	161.5	4724	440	1337	4284
HC23-OM028	M033814	161.5	163	5017	429	1383	4588
HC23-OM028	M033815	163	164.5	5743	486	1537	5257
HC23-OM028	M033816	164.5	166	5221	440	1401	4781
HC23-OM028	M033817	166	167.5	5419	480	1460	4939
HC23-OM028	M033818	167.5	169	5665	509	1533	5156
HC23-OM028	M033819	169	170.5	5087	448	1405	4639
HC23-OM028	M033820	170.5	172	4646	408	1284	4238
HC23-OM028	M033821	172	173.5	5247	453	1438	4794
HC23-OM028	M033823	173.5	174.28	4204	370	1137	3834
HC23-OM028	M033824	174.28	174.57	407	69	114	338
HC23-OM028	M033825	174.57	175	4332	380	1189	3952
HC23-OM028	M033826	175	176.5	4450	381	1226	4069
HC23-OM028	M033827	176.5	178	4941	426	1361	4515
HC23-OM028	M033828	178	179.5	4676	408	1296	4268
HC23-OM028	M033829	179.5	181	5059	436	1375	4623
HC23-OM028	M033830	181	181.05	4162	374	1128	3788
HC23-OM028	M033831	181.05	182.5	5700	479	1515	5221
HC23-OM028	M033832	182.5	184	6180	518	1659	5662
HC23-OM028	M033833	184	185.5	6200	533	1673	5667
HC23-OM028	M033834	185.5	185.82	5641	511	1528	5130
HC23-OM028	M033835	185.82	185.92	2890	270	797	2620
HC23-OM028	M033836	185.92	187	4934	440	1340	4494
HC23-OM028	M033837	187	188.5	5633	475	1517	5158
HC23-OM028	M033838	188.5	190	4743	443	1306	4300
HC23-OM028	M033839	190	191.15	5023	440	1370	4583
HC23-OM028	M033840	191.15	191.25	1258	146	361	1112
HC23-OM028	M033841	191.25	191.5	5171	434	1405	4737
HC23-OM028	M033843	191.5	193	5890	496	1592	5394
HC23-OM028	M033844	193	194.5	5592	475	1504	5117
HC23-OM028	M033845	194.5	196	5865	486	1576	5379
HC23-OM028	M033846	196	197.5	5841	496	1580	5345

HC23-OM028	M033847	197.5	199	5542	492	1509	5050
HC23-OM028	M033848	199	200.5	5922	523	1600	5399
HC23-OM028	M033849	200.5	202	5618	466	1452	5152
HC23-OM028	M033850	202	203.5	5680	486	1467	5194
HC23-OM028	M033851	203.5	205	5894	500	1527	5394
HC23-OM028	M033852	205	206.5	5578	473	1462	5105
HC23-OM028	M033853	206.5	208	5871	479	1528	5392
HC23-OM028	M033854	208	209	4786	443	1295	4343
HC23-OM028	M033855	209	210	251	42	62	209
HC23-OM028	M033856	210	211.5	1713	170	483	1543
HC23-OM028	M033857	211.5	211.65	4674	401	1253	4273
HC23-OM028	M033858	212	213	3635	309	969	3326
HC23-OM028	M033859	213	214.5	204	50	51	154
HC23-OM028	M033860	214.5	216	330	38	77	292
HC23-OM028	M033861	216	217.5	306	29	72	277
HC23-OM028	M033863	217.5	219	299	36	69	263
HC23-OM028	M033864	219	219.9	686	85	178	601
HC23-OM028	M033865	219.9	220.5	4065	349	1091	3716
HC23-OM028	M033866	220.5	222	5947	500	1565	5447
HC23-OM028	M033867	222	223.5	6114	466	1600	5648
HC23-OM028	M033868	223.5	225	5807	467	1527	5340
HC23-OM028	M033869	225	226.5	6161	497	1625	5664
HC23-OM028	M033870	226.5	228	6172	497	1628	5675
HC23-OM028	M033871	228	229.5	6459	489	1701	5970
HC23-OM028	M033872	229.5	231	4561	450	1243	4111
HC23-OM028	M033873	231	232.5	5866	524	1535	5342
HC23-OM028	M033874	232.5	234	6945	498	1811	6447
HC23-OM028	M033875	234	235.5	5706	453	1496	5253
HC23-OM028	M033876	235.5	237	4660	428	1255	4232
HC23-OM028	M033877	237	238.5	6358	479	1644	5879
HC23-OM028	M033878	238.5	239	5774	453	1500	5321
HC23-OM028	M033879	239	239.5	7539	582	1956	6957
HC23-OM028	M033880	239.5	240	5638	504	1506	5134
HC23-OM028	M033881	240	241.5	4521	438	1194	4083
HC23-OM028	M033882	241.5	243	8067	565	2020	7502
HC23-OM028	M033884	243	244.5	5099	463	1341	4636
HC23-OM028	M033885	244.5	246	4838	491	1273	4347
HC23-OM028	M033886	246	248	4895	485	1282	4410
HC23-OM028	M033887	248	249.5	4851	494	1257	4357
HC23-OM028	M033888	249.5	251	4946	497	1294	4449
HC23-OM028	M033889	251	252.5	4540	475	1166	4065
HC23-OM028	M033890	252.5	254	4669	473	1212	4196
HC23-OM028	M033891	254	255.5	4680	450	1246	4230
HC23-OM028	M033892	255.5	257	5109	465	1343	4644

HC23-OM028	M033893	257	257.5	4570	453	1223	4117
HC23-OM028	M033894	257.5	258.7	6032	545	1613	5487
HC23-OM028	M033895	258.7	259	4228	431	1154	3797
HC23-OM028	M033896	259	260.5	5068	511	1355	4557
HC23-OM028	M033897	260.5	262	4668	457	1252	4211
HC23-OM028	M033898	262	263.5	4255	427	1159	3828
HC23-OM028	M033899	263.5	265	4498	417	1188	4081
HC23-OM028	M033900	265	266.25	5470	472	1452	4998
HC23-OM028	M033901	266.25	266.5	5090	478	1359	4612
HC23-OM028	M033903	266.5	268	4195	388	1114	3807
HC23-OM028	M033904	268	269.5	5607	460	1484	5147
HC23-OM028	M033905	269.5	271	4900	437	1308	4463
HC23-OM028	M033906	271	272.5	4971	437	1318	4534
HC23-OM028	M033907	272.5	274	5722	488	1534	5234
HC23-OM028	M033908	274	275.33	4765	432	1269	4333
HC23-OM028	M033909	275.33	275.4	3478	349	939	3129
HC23-OM028	M033910	275.4	275.5	2294	261	614	2033
HC23-OM028	M033911	275.5	277	4717	431	1261	4286
HC23-OM028	M033912	277	278.5	4264	384	1132	3880
HC23-OM028	M033913	278.5	280	4084	394	1095	3690
HC23-OM028	M033914	280	281	5136	456	1341	4680
HC23-OM028	M033915	281	281.5	4885	450	1306	4435
HC23-OM028	M033916	281.5	283	4949	451	1339	4498
HC23-OM028	M033917	283	284.5	5481	462	1437	5019
HC23-OM028	M033918	284.5	286	5381	472	1435	4909
HC23-OM028	M033919	286	287.5	6033	469	1570	5564
HC23-OM028	M033920	287.5	289	5424	462	1428	4962
HC23-OM028	M033921	289	290.5	4879	422	1293	4457
HC23-OM028	M033923	290.5	292	4620	439	1229	4181
HC23-OM028	M033924	292	293.5	5542	481	1464	5061
HC23-OM028	M033925	293.5	295	4624	436	1248	4188
HC23-OM028	M033926	295	296.5	4929	441	1325	4488
HC23-OM028	M033927	296.5	298	5045	446	1347	4599
HC23-OM028	M033928	298	299.5	4092	406	1110	3686
HC23-OM028	M033929	299.5	301	5242	443	1381	4799
HC23-OM028	M033930	301	302	3049	287	833	2762
HC23-OM030	M033931	2.5	4	3697	399	976	3298
HC23-OM030	M033932	4	5.5	3498	389	933	3109
HC23-OM030	M033933	5.5	7	4290	495	1164	3795
HC23-OM030	M033934	7	8.5	4387	483	1178	3904
HC23-OM030	M033935	8.5	10	4410	534	1203	3876
HC23-OM030	M033936	10	11.5	4844	550	1337	4294
HC23-OM030	M033937	11.5	13	4943	579	1356	4364
HC23-OM030	M033938	13	14.5	5950	613	1602	5337

HC23-OM030	M033939	14.5	16	3941	567	1087	3374
HC23-OM030	M033940	16	17.5	4680	468	1220	4212
HC23-OM030	M033941	17.5	19	5029	466	1379	4563
HC23-OM030	M033942	19	19.55	4568	417	1155	4151
HC23-OM030	M033944	20	21.1	4287	407	1053	3880
HC23-OM030	M033945	21.1	22	4937	443	1332	4494
HC23-OM030	M033946	22	23.5	4545	620	1218	3925
HC23-OM030	M033947	23.5	25	4006	438	1063	3568
HC23-OM030	M033948	25	25.4	4942	476	1318	4466
HC23-OM030	M033949	25.4	26.5	6138	544	1672	5594
HC23-OM030	M033950	26.5	28	4010	476	1049	3534
HC23-OM030	M033951	28	29.5	4479	481	1190	3998
HC23-OM030	M033952	29.5	31	5080	561	1349	4519
HC23-OM030	M033953	31	32.5	5603	590	1488	5013
HC23-OM030	M033954	32.5	34	5111	551	1376	4560
HC23-OM030	M033955	34	34.67	3225	368	860	2857
HC23-OM030	M033956	34.67	35.12	2923	300	768	2623
HC23-OM030	M033957	35.12	35.5	2393	346	617	2047
HC23-OM030	M033958	35.5	37	4028	487	1063	3541
HC23-OM030	M033959	37	38.5	4615	524	1223	4091
HC23-OM030	M033960	38.5	40	4467	496	1180	3971
HC23-OM030	M033961	40	41.5	4333	542	1143	3791
HC23-OM030	M033962	41.5	43	3943	427	1030	3516
HC23-OM030	M033963	43	44.5	5087	631	1338	4456
HC23-OM030	M033965	44.5	46	4193	494	1098	3699
HC23-OM030	M033966	46	47.3	4402	487	1165	3915
HC23-OM030	M033967	47.3	48.5	5040	501	1335	4539
HC23-OM030	M033968	48.5	49.72	5462	544	1463	4918
HC23-OM030	M033969	49.72	50.5	4773	503	1273	4270
HC23-OM030	M033970	50.5	52	3848	519	1040	3329
HC23-OM030	M033971	52	53.5	3335	435	889	2900
HC23-OM030	M033972	53.5	55	2829	399	756	2430
HC23-OM030	M033973	55	56.5	3557	498	941	3059
HC23-OM030	M033974	56.5	57.55	3719	469	987	3250
HC23-OM030	M033975	57.55	58.34	4350	577	1165	3773
HC23-OM030	M033976	58.34	59.5	4478	541	1221	3937
HC23-OM030	M033977	59.5	61	4012	503	1084	3509
HC23-OM030	M033978	61	62.47	4315	547	1158	3768
HC23-OM030	M033979	62.47	62.73	3831	573	1031	3258
HC23-OM030	M033980	62.73	64.3	3079	427	831	2652
HC23-OM030	M033981	64.3	64.39	2656	295	692	2361
HC23-OM030	M033982	64.39	65.52	3166	429	857	2737
HC23-OM030	M033983	65.52	67.5	4646	551	1264	4095
HC23-OM030	M033984	67.5	68.19	3687	486	1001	3201

HC23-OM030	M033986	68.19	69.61	4607	596	1248	4011
HC23-OM030	M033987	69.61	69.8	3348	467	905	2881
HC23-OM030	M033988	69.8	71.5	5535	577	1482	4958
HC23-OM030	M033989	71.5	73	4422	545	1203	3877
HC23-OM030	M033990	73	74.5	3880	484	1035	3396
HC23-OM030	M033991	74.5	75.95	4406	558	1182	3848
HC23-OM030	M033992	75.95	76.37	3967	475	1063	3492
HC23-OM030	M033993	76.37	77.5	4163	496	1135	3667
HC23-OM030	M033994	77.5	79	4593	524	1244	4069
HC23-OM030	M033995	79	80	4781	518	1299	4263
HC23-OM032	M034001	3	3.29	2256	232	653	2024
HC23-OM032	M034002	3.29	4.45	3543	385	982	3158
HC23-OM032	M034003	4.45	4.71	1242	164	359	1078
HC23-OM032	M034004	4.71	6	3701	391	1002	3310
HC23-OM032	M034005	6	7.5	3545	366	975	3179
HC23-OM032	M034007	7.5	9	3494	358	969	3136
HC23-OM032	M034008	9	10.5	3356	388	932	2968
HC23-OM032	M034009	10.5	12	3415	442	966	2973
HC23-OM032	M034010	12	13.12	3429	497	948	2932
HC23-OM032	M034011	13.12	14.5	2444	344	690	2100
HC23-OM032	M034012	14.5	16	3670	378	992	3292
HC23-OM032	M034013	16	17.5	2550	342	706	2208
HC23-OM032	M034014	17.5	18.82	3324	388	914	2936
HC23-OM032	M034015	18.82	19.14	1762	218	514	1544
HC23-OM032	M034016	19.14	20.5	3799	426	1045	3373
HC23-OM032	M034017	20.5	22	2108	309	603	1799
HC23-OM032	M034018	22	23.5	3853	358	1045	3495
HC23-OM032	M034019	23.5	25	3184	367	881	2817
HC23-OM032	M034020	25	26.5	3399	376	926	3023
HC23-OM032	M034021	26.5	27.5	2821	337	769	2484
HC23-OM032	M034022	27.5	29	3597	442	1001	3155
HC23-OM032	M034023	29	30.5	4252	433	1189	3819
HC23-OM032	M034024	30.5	32	4112	412	1140	3700
HC23-OM032	M034025	32	33.5	4337	431	1181	3906
HC23-OM032	M034026	33.5	35	3764	380	1031	3384
HC23-OM032	M034028	35	36.5	4374	419	1206	3955
HC23-OM032	M034029	36.5	38	3912	391	1070	3521
HC23-OM032	M034030	38	39.5	4063	418	1124	3645
HC23-OM032	M034031	39.5	40.5	4067	380	1121	3687
HC23-OM032	M034032	40.5	42.6	3957	378	1095	3579
HC23-OM032	M034033	42.6	45.24	4330	408	1185	3922
HC23-OM032	M034034	45.24	47.63	4329	455	1203	3874
HC23-OM032	M034035	47.63	49.04	3947	379	1090	3568
HC23-OM032	M034036	49.04	49.16	5078	429	1370	4649

HC23-OM032	M034037	49.16	51	5049	467	1383	4582
HC23-OM032	M034038	51	52.5	3739	350	1035	3389
HC23-OM032	M034039	52.5	54.41	4313	387	1182	3926
HC23-OM032	M034040	54.41	55	1838	489	588	1349
HC23-OM032	M034041	55	56.5	4396	394	1199	4002
HC23-OM032	M034042	56.5	58.9	4552	425	1248	4127
HC23-OM032	M034043	58.9	59.66	4219	401	1169	3818
HC23-OM032	M034044	59.66	61.38	4707	446	1291	4261
HC23-OM032	M034045	61.38	63	4527	459	1244	4068
HC23-OM032	M034046	63	64.75	4248	390	1120	3858
HC23-OM032	M034047	64.75	65	152	48	43	104
HC23-OM032	M034049	65	66.85	4147	390	1096	3757
HC23-OM032	M034050	66.85	67.3	4203	410	1120	3793
HC23-OM032	M034051	67.3	68.67	4324	415	1138	3909
HC23-OM032	M034052	68.67	70	4458	415	1177	4043
HC23-OM032	M034053	70	71.5	4653	417	1234	4236
HC23-OM032	M034054	71.5	72.35	4787	431	1285	4356
HC23-OM032	M034055	72.35	73.5	4235	383	1116	3852
HC23-OM032	M034056	73.5	75	4427	379	1161	4048
HC23-OM032	M034057	75	76.5	4782	412	1263	4370
HC23-OM034	M034058	3	4.5	4331	368	1143	3963
HC23-OM034	M034059	4.5	6	4576	399	1206	4177
HC23-OM034	M034060	6	7.5	4158	392	1098	3766
HC23-OM034	M034061	7.5	9	4501	368	1167	4133
HC23-OM034	M034062	9	11	3984	362	1048	3622
HC23-OM034	M034063	11	12.5	3807	344	999	3463
HC23-OM034	M034064	12.5	13.8	3743	334	985	3409
HC23-OM034	M034065	13.8	14	89	27	24	62
HC23-OM034	M034066	14	15.5	3790	345	981	3445
HC23-OM034	M034067	15.5	16.45	4506	401	1196	4105
HC23-OM034	M034068	16.45	18	4226	377	1107	3849
HC23-OM034	M034070	18	19.5	4044	367	1062	3677
HC23-OM034	M034071	19.5	20	4245	366	1111	3879
HC23-OM034	M034072	20	21.5	3921	358	1032	3563
HC23-OM034	M034073	21.5	23	3933	376	1035	3557
HC23-OM034	M034074	23	24.5	3836	361	1007	3475
HC23-OM034	M034075	24.5	26	4078	372	1063	3706
HC23-OM034	M034076	26	27.5	3241	299	846	2942
HC23-OM034	M034077	27.5	29	4362	384	1145	3978
HC23-OM034	M034078	29	30.5	3901	362	1024	3539
HC23-OM034	M034079	30.5	31.29	3936	383	1036	3553
HC23-OM034	M034080	31.29	33.8	4134	357	1090	3777
HC23-OM034	M034081	33.8	35	4176	376	1093	3800
HC23-OM034	M034082	35	36.2	3898	360	1031	3538

HC23-OM034	M034083	36.2	38	3960	343	1047	3617
HC23-OM034	M034084	38	39.5	4023	350	1057	3673
HC23-OM034	M034085	39.5	41	3779	350	1003	3429
HC23-OM034	M034086	41	42.5	4007	356	1048	3651
HC23-OM034	M034087	42.5	44	3419	322	905	3097
HC23-OM034	M034088	44	45.5	3971	357	1050	3614
HC23-OM034	M034089	45.5	47	4486	396	1196	4090
HC23-OM034	M034091	47	48.5	5657	473	1505	5184
HC23-OM034	M034092	48.5	50	5633	467	1530	5166
HC23-OM034	M034093	50	51.5	4750	413	1261	4337
HC23-OM034	M034094	51.5	53	3792	357	1004	3435
HC23-OM034	M034095	53	54.5	4006	365	1055	3641
HC23-OM034	M034096	54.5	56	4065	365	1074	3700
HC23-OM034	M034097	56	57.5	4051	374	1072	3677
HC23-OM034	M034098	57.5	58.1	4662	401	1248	4261
HC23-OM034	M034099	58.1	59.5	4317	364	1148	3953
HC23-OM034	M034100	59.5	60.7	4017	336	1073	3681
HC23-OM034	M034101	60.7	61.66	4439	374	1176	4065
HC23-OM034	M034102	61.66	61.76	4881	422	1298	4459
HC23-OM034	M034103	61.76	63.26	4370	372	1159	3998
HC23-OM034	M034104	63.26	64.61	4000	363	1062	3637
HC23-OM034	M034105	64.61	66.11	3640	333	961	3307
HC23-OM034	M034106	66.11	67.61	4373	405	1167	3968
HC23-OM034	M034107	67.61	68.3	4029	360	1072	3669
HC23-OM034	M034108	68.3	69.8	4542	370	1209	4172
HC23-OM034	M034109	69.8	70.04	4655	380	1236	4275
HC23-OM034	M034110	70.04	72.56	4103	345	1080	3758
HC23-OM034	M034112	72.56	73.6	4526	385	1202	4141
HC23-OM034	M034113	73.6	75.1	4756	432	1262	4324
HC23-OM034	M034114	75.1	76.56	4139	377	1107	3762
HC23-OM034	M034115	76.56	77.08	4011	350	1053	3661
HC23-OM034	M034116	77.08	79.1	4585	411	1225	4174
HC23-OM034	M034117	79.1	80	4474	392	1193	4082
HC23-OM037	M034118	3	4.5	3846	340	1022	3506
HC23-OM037	M034119	4.5	6	3560	336	943	3224
HC23-OM037	M034120	6	7.5	3781	302	998	3479
HC23-OM037	M034121	7.5	9.15	4208	369	1106	3839
HC23-OM037	M034122	11	12.5	3991	369	1054	3622
HC23-OM037	M034123	12.5	14	4262	372	1121	3890
HC23-OM037	M034124	14	15.5	3855	373	1013	3482
HC23-OM037	M034125	15.5	17	3644	339	972	3305
HC23-OM037	M034126	17	18.5	3775	354	995	3421
HC23-OM037	M034127	18.5	20	4172	353	1121	3819
HC23-OM037	M034128	20	21.5	3973	354	1060	3619

HC23-OM037	M034129	21.5	23	3660	320	991	3340
HC23-OM037	M034130	23	24.5	4442	395	1208	4047
HC23-OM037	M034131	24.5	26	4870	435	1302	4435
HC23-OM037	M034133	26	27.5	4213	377	1134	3836
HC23-OM037	M034134	27.5	29	4478	394	1188	4084
HC23-OM037	M034136	29	30.5	3896	384	1045	3512
HC23-OM037	M034137	30.5	32	3917	372	1032	3545
HC23-OM037	M034138	32	33.5	4059	367	1068	3692
HC23-OM037	M034139	33.5	35	3878	363	1048	3515
HC23-OM037	M034140	35	36.5	3950	352	1055	3598
HC23-OM037	M034141	36.5	38	4198	377	1119	3821
HC23-OM037	M034142	38	39.5	4045	376	1092	3669
HC23-OM037	M034143	39.5	40.62	4403	361	1184	4042
HC23-OM037	M034144	40.62	40.67	1921	229	528	1692
HC23-OM037	M034145	40.67	41.5	4691	385	1268	4306
HC23-OM037	M034146	41.5	43.19	4266	385	1143	3881
HC23-OM037	M034147	43.19	44.5	3885	358	1047	3527
HC23-OM037	M034148	44.5	46	3788	361	1018	3427
HC23-OM037	M034149	46	47.82	3774	361	1029	3413
HC23-OM037	M034150	47.82	47.9	1616	180	436	1436
HC23-OM037	M034151	47.9	49	3588	341	969	3247
HC23-OM037	M034152	49	50.5	3567	346	973	3221
HC23-OM037	M034154	50.5	52	4744	448	1286	4296
HC23-OM037	M034155	52	53.5	4033	370	1034	3663
HC23-OM037	M034156	53.5	55	3820	364	990	3456
HC23-OM037	M034157	55	56.5	3829	355	992	3474
HC23-OM037	M034158	56.5	58	3919	360	1003	3559
HC23-OM037	M034159	58	59.5	4012	343	1037	3669
HC23-OM037	M034160	59.5	61	4405	376	1141	4029
HC23-OM037	M034161	61	62.5	4465	383	1148	4082
HC23-OM037	M034162	62.5	64	4136	363	1059	3773
HC23-OM037	M034163	64	65.5	4271	380	1102	3891
HC23-OM037	M034164	65.5	66.94	4257	356	1078	3901
HC23-OM037	M034165	66.94	67.09	5156	487	1360	4669
HC23-OM037	M034166	67.09	68.3	4033	365	1030	3668
HC23-OM037	M034167	68.3	68.36	2561	262	647	2299
HC23-OM037	M034168	68.36	69.11	4203	359	1078	3844
HC23-OM037	M034169	69.11	69.41	5938	515	1568	5423
HC23-OM037	M034170	69.41	70.5	4258	386	1104	3872
HC23-OM037	M034171	70.5	72	4509	384	1166	4125
HC23-OM037	M034172	72	73.5	4509	390	1170	4119
HC23-OM037	M034173	73.5	75			1	6
HC23-OM037	M034175	75	75.82	6684	489	1769	6195
HC23-OM037	M034176	75.82	76.91	3364	432	893	2932

HC23-OM037	M034177	76.91	76.95	4170	384	1088	3786
HC23-OM037	M034178	76.95	78.92	4465	455	1178	4010
HC23-OM037	M034179	78.92	80	4767	433	1236	4334
HC23-OM039	M034180	5.5	7	4770	453	1234	4317
HC23-OM039	M034181	7	8.5	4023	409	1031	3614
HC23-OM039	M034182	8.5	10	4251	425	1091	3826
HC23-OM039	M034183	10	11.5	4795	443	1248	4352
HC23-OM039	M034184	11.5	13	4863	458	1263	4405
HC23-OM039	M034185	13	14.5	4703	438	1212	4265
HC23-OM039	M034186	14.5	16	5239	464	1358	4775
HC23-OM039	M034187	16	17.5	5984	539	1556	5445
HC23-OM039	M034188	17.5	19	4918	461	1275	4457
HC23-OM039	M034189	19	20.5	4405	400	1130	4005
HC23-OM039	M034190	20.5	22	4587	420	1186	4167
HC23-OM039	M034191	22	23.5	3889	396	1020	3493
HC23-OM039	M034192	23.5	25	4497	432	1196	4065
HC23-OM039	M034193	25	25.95	4110	419	1082	3691
HC23-OM039	M034194	25.95	26.1	1244	163	318	1081
HC23-OM039	M034196	26.1	26.5	4477	462	1169	4015
HC23-OM039	M034197	26.5	28	4301	455	1134	3846
HC23-OM039	M034198	28	29.5	4145	452	1090	3693
HC23-OM039	M034199	29.5	31	4612	477	1191	4135
HC23-OM039	M034200	31	32.5	3834	535	1032	3299
HC23-OM039	M034201	32.5	34	2949	445	792	2504
HC23-OM039	M034202	34	35.5	2596	381	698	2215
HC23-OM039	M034203	35.5	37	2939	391	794	2548
HC23-OM039	M034204	37	38.5	2375	355	647	2020
HC23-OM039	M034205	38.5	40	3560	394	957	3166
HC23-OM039	M034206	40	41.5	3274	419	888	2855
HC23-OM039	M034207	41.5	43	3993	419	1074	3574
HC23-OM039	M034208	43	44.5	3335	393	892	2942
HC23-OM039	M034209	44.5	46	3983	411	1061	3572
HC23-OM039	M034210	46	46.45	4726	415	1250	4311
HC23-OM039	M034211	46.45	46.53	1906	187	497	1719
HC23-OM039	M034212	46.53	47.5	4540	387	1199	4153
HC23-OM039	M034213	47.5	49	5350	441	1442	4909
HC23-OM039	M034214	49	50.5	3739	421	1012	3318
HC23-OM039	M034215	50.5	52	3094	400	837	2694
HC23-OM039	M034217	52	53.5	4378	438	1164	3940
HC23-OM039	M034218	53.5	55	5266	493	1416	4773
HC23-OM039	M034219	55	56.5	4178	408	1111	3770
HC23-OM039	M034220	56.5	58	3803	381	1011	3422
HC23-OM039	M034221	58	59.5	4503	415	1187	4088
HC23-OM039	M034222	59.5	61	4664	435	1234	4229

HC23-OM039	M034223	61	62.5	4229	424	1101	3805
HC23-OM039	M034224	62.5	64	3882	388	1034	3494
HC23-OM039	M034225	64	65.5	5055	499	1365	4556
HC23-OM039	M034226	65.5	67	4229	412	1120	3817
HC23-OM039	M034227	67	68.5	4142	392	1069	3750
HC23-OM039	M034228	68.5	70	4822	436	1260	4386
HC23-OM039	M034229	70	71.5	4477	431	1169	4046
HC23-OM039	M034230	71.5	73	4606	418	1197	4188
HC23-OM039	M034231	73	74.5	3357	367	885	2990
HC23-OM039	M034232	74.5	76	4429	445	1153	3984
HC23-OM039	M034233	76	77.5	3140	383	830	2757
HC23-OM039	M034234	77.5	78.5	4246	406	1108	3840
HC23-OM039	M034235	78.5	78.71	9189	740	2515	8449
HC23-OM039	M034236	78.71	80	4232	400	1089	3832